

**Table D.9. Noncancerous CDIs for the Current Industrial Worker**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 1           | 1         | Surface      | Beryllium   | mg/kg        | 3.89E+00   | 1.07E-07         | 7.02E-08      | 6.88E-11          |
| 1           | 1         | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 3.01E-08         | 2.83E-09      | 1.94E-11          |
| 1           | 1         | Surface      | Chromium    | mg/kg        | 1.28E+01   | 3.51E-07         | 1.65E-06      | 2.27E-10          |
| 1           | 1         | Surface      | PCB, Total  | mg/kg        | 1.76E-01   | 4.82E-09         | 6.35E-08      | 5.24E-09          |
| 1           | 2         | Surface      | Beryllium   | mg/kg        | 8.23E+00   | 2.25E-07         | 1.48E-07      | 1.45E-10          |
| 1           | 2         | Surface      | Cadmium     | mg/kg        | 6.46E+00   | 1.77E-07         | 1.66E-08      | 1.14E-10          |
| 1           | 2         | Surface      | Chromium    | mg/kg        | 2.01E+02   | 5.51E-06         | 2.59E-05      | 3.56E-09          |
| 1           | 2         | Surface      | Copper      | mg/kg        | 1.81E+02   | 4.96E-06         | 2.33E-05      | 3.20E-09          |
| 1           | 2         | Surface      | Mercury     | mg/kg        | 5.94E+00   | 1.63E-07         | 7.65E-07      | 3.13E-06          |
| 1           | 2         | Surface      | Nickel      | mg/kg        | 5.75E+01   | 1.57E-06         | 5.92E-06      | 1.02E-09          |
| 1           | 2         | Surface      | PCB, Total  | mg/kg        | 3.21E+01   | 8.80E-07         | 1.16E-05      | 9.57E-07          |
| 1           | 2         | Surface      | Silver      | mg/kg        | 3.31E+01   | 9.08E-07         | 3.41E-06      | 5.86E-10          |
| 1           | 2         | Surface      | Thallium    | mg/kg        | 3.70E-01   | 1.01E-08         | 4.76E-08      | 6.54E-12          |
| 1           | 2         | Surface      | Vanadium    | mg/kg        | 3.49E+01   | 9.55E-07         | 2.33E-06      | 6.16E-10          |
| 1           | 3         | Surface      | Chromium    | mg/kg        | 1.45E+01   | 3.96E-07         | 1.86E-06      | 2.56E-10          |
| 1           | 3         | Surface      | PCB, Total  | mg/kg        | 2.17E-01   | 5.95E-09         | 7.82E-08      | 6.47E-09          |
| 1           | 4         | Surface      | Beryllium   | mg/kg        | 7.25E-01   | 1.99E-08         | 1.31E-08      | 1.28E-11          |
| 1           | 4         | Surface      | Chromium    | mg/kg        | 9.30E+01   | 2.55E-06         | 1.20E-05      | 1.64E-09          |
| 1           | 4         | Surface      | Nickel      | mg/kg        | 4.69E+01   | 1.28E-06         | 4.83E-06      | 8.28E-10          |
| 1           | 4         | Surface      | PCB, Total  | mg/kg        | 1.30E-01   | 3.56E-09         | 4.69E-08      | 3.87E-09          |
| 1           | 5         | Surface      | Beryllium   | mg/kg        | 8.30E+00   | 2.27E-07         | 1.50E-07      | 1.47E-10          |
| 1           | 5         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 3.29E-08         | 3.09E-09      | 2.12E-11          |
| 1           | 5         | Surface      | Nickel      | mg/kg        | 4.07E+01   | 1.12E-06         | 4.19E-06      | 7.19E-10          |
| 1           | 5         | Surface      | PCB, Total  | mg/kg        | 2.70E-01   | 7.40E-09         | 9.73E-08      | 8.05E-09          |
| 1           | 5         | Surface      | Total PAH   | mg/kg        | 9.83E-02   | 2.69E-09         | 3.29E-08      | 1.28E-10          |
| 99          | 1         | Surface      | Chromium    | mg/kg        | 5.51E+01   | 1.51E-06         | 7.10E-06      | 9.74E-10          |
| 99          | 1         | Surface      | Mercury     | mg/kg        | 9.53E+00   | 2.61E-07         | 1.23E-06      | 5.02E-06          |
| 99          | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 1.92E-06         | 7.23E-06      | 1.24E-09          |
| 99          | 1         | Surface      | Silver      | mg/kg        | 1.03E+01   | 2.82E-07         | 1.06E-06      | 1.82E-10          |
| 194         | 1         | Surface      | Antimony    | mg/kg        | 1.50E+00   | 4.11E-08         | 1.93E-07      | 2.65E-11          |
| 194         | 1         | Surface      | Chromium    | mg/kg        | 3.87E+01   | 1.06E-06         | 4.98E-06      | 6.84E-10          |
| 194         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 1.84E-07         | 8.64E-07      | 3.54E-06          |
| 194         | 1         | Surface      | Nickel      | mg/kg        | 5.84E+01   | 1.60E-06         | 6.02E-06      | 1.03E-09          |
| 194         | 1         | Surface      | Silver      | mg/kg        | 1.09E+01   | 2.99E-07         | 1.13E-06      | 1.93E-10          |
| 194         | 2         | Surface      | Chromium    | mg/kg        | 5.96E+01   | 1.63E-06         | 7.67E-06      | 1.05E-09          |
| 194         | 2         | Surface      | Silver      | mg/kg        | 1.31E+01   | 3.60E-07         | 1.35E-06      | 2.32E-10          |
| 194         | 2         | Surface      | Uranium     | mg/kg        | 2.28E+01   | 6.24E-07         | 2.93E-06      | 4.03E-10          |
| 194         | 3         | Surface      | Antimony    | mg/kg        | 6.90E-01   | 1.89E-08         | 8.88E-08      | 1.22E-11          |
| 194         | 3         | Surface      | Arsenic     | mg/kg        | 1.46E+01   | 4.01E-07         | 1.13E-06      | 2.59E-10          |
| 194         | 3         | Surface      | Chromium    | mg/kg        | 3.90E+01   | 1.07E-06         | 5.02E-06      | 6.89E-10          |
| 194         | 3         | Surface      | Nickel      | mg/kg        | 6.40E+01   | 1.75E-06         | 6.60E-06      | 1.13E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 3         | Surface      | Total PAH   | mg/kg        | 3.93E-02   | 1.08E-09         | 1.32E-08      | 5.14E-11          |
| 194         | 4         | Surface      | Chromium    | mg/kg        | 4.84E+01   | 1.33E-06         | 6.23E-06      | 8.56E-10          |
| 194         | 4         | Surface      | Mercury     | mg/kg        | 8.92E+00   | 2.44E-07         | 1.15E-06      | 4.70E-06          |
| 194         | 4         | Surface      | Nickel      | mg/kg        | 6.91E+01   | 1.89E-06         | 7.11E-06      | 1.22E-09          |
| 194         | 4         | Surface      | Silver      | mg/kg        | 1.18E+01   | 3.23E-07         | 1.21E-06      | 2.08E-10          |
| 194         | 4         | Surface      | Total PAH   | mg/kg        | 7.30E-02   | 2.00E-09         | 2.44E-08      | 9.53E-11          |
| 194         | 5         | Surface      | Chromium    | mg/kg        | 4.58E+01   | 1.25E-06         | 5.90E-06      | 8.10E-10          |
| 194         | 5         | Surface      | Mercury     | mg/kg        | 8.69E+00   | 2.38E-07         | 1.12E-06      | 4.58E-06          |
| 194         | 5         | Surface      | Nickel      | mg/kg        | 7.54E+01   | 2.07E-06         | 7.77E-06      | 1.33E-09          |
| 194         | 5         | Surface      | Silver      | mg/kg        | 1.25E+01   | 3.41E-07         | 1.28E-06      | 2.20E-10          |
| 194         | 5         | Surface      | Total PAH   | mg/kg        | 2.37E-02   | 6.49E-10         | 7.93E-09      | 3.10E-11          |
| 194         | 6         | Surface      | Chromium    | mg/kg        | 3.70E+01   | 1.01E-06         | 4.77E-06      | 6.54E-10          |
| 194         | 6         | Surface      | Manganese   | mg/kg        | 1.08E+03   | 2.96E-05         | 1.11E-04      | 1.91E-08          |
| 194         | 6         | Surface      | Nickel      | mg/kg        | 8.06E+01   | 2.21E-06         | 8.30E-06      | 1.42E-09          |
| 194         | 6         | Surface      | Silver      | mg/kg        | 9.89E+00   | 2.71E-07         | 1.02E-06      | 1.75E-10          |
| 194         | 7         | Surface      | Chromium    | mg/kg        | 5.32E+01   | 1.46E-06         | 6.85E-06      | 9.40E-10          |
| 194         | 7         | Surface      | Nickel      | mg/kg        | 7.71E+01   | 2.11E-06         | 7.95E-06      | 1.36E-09          |
| 194         | 7         | Surface      | Silver      | mg/kg        | 1.25E+01   | 3.42E-07         | 1.29E-06      | 2.21E-10          |
| 194         | 8         | Surface      | Chromium    | mg/kg        | 5.36E+01   | 1.47E-06         | 6.90E-06      | 9.47E-10          |
| 194         | 8         | Surface      | Manganese   | mg/kg        | 8.00E+02   | 2.19E-05         | 8.24E-05      | 1.41E-08          |
| 194         | 8         | Surface      | Total PAH   | mg/kg        | 4.85E-01   | 1.33E-08         | 1.62E-07      | 6.34E-10          |
| 194         | 9         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 3.13E-07         | 8.82E-07      | 2.02E-10          |
| 194         | 9         | Surface      | Chromium    | mg/kg        | 5.17E+01   | 1.42E-06         | 6.65E-06      | 9.13E-10          |
| 194         | 10        | Surface      | Arsenic     | mg/kg        | 1.22E+01   | 3.33E-07         | 9.39E-07      | 2.15E-10          |
| 194         | 10        | Surface      | Chromium    | mg/kg        | 3.63E+01   | 9.94E-07         | 4.67E-06      | 6.41E-10          |
| 194         | 10        | Surface      | Nickel      | mg/kg        | 7.60E+01   | 2.08E-06         | 7.83E-06      | 1.34E-09          |
| 194         | 10        | Surface      | Total PAH   | mg/kg        | 2.57E-01   | 7.05E-09         | 8.61E-08      | 3.36E-10          |
| 194         | 11        | Surface      | Chromium    | mg/kg        | 3.27E+01   | 8.95E-07         | 4.21E-06      | 5.78E-10          |
| 194         | 11        | Surface      | Mercury     | mg/kg        | 8.09E+00   | 2.22E-07         | 1.04E-06      | 4.26E-06          |
| 194         | 11        | Surface      | Nickel      | mg/kg        | 1.01E+02   | 2.76E-06         | 1.04E-05      | 1.78E-09          |
| 194         | 11        | Surface      | PCB, Total  | mg/kg        | 8.40E-02   | 2.30E-09         | 3.03E-08      | 2.50E-09          |
| 194         | 11        | Surface      | Silver      | mg/kg        | 1.33E+01   | 3.64E-07         | 1.37E-06      | 2.35E-10          |
| 194         | 11        | Surface      | Total PAH   | mg/kg        | 7.95E-02   | 2.18E-09         | 2.66E-08      | 1.04E-10          |
| 194         | 12        | Surface      | Chromium    | mg/kg        | 6.34E+01   | 1.74E-06         | 8.16E-06      | 1.12E-09          |
| 194         | 12        | Surface      | Nickel      | mg/kg        | 7.86E+01   | 2.15E-06         | 8.10E-06      | 1.39E-09          |
| 194         | 12        | Surface      | Silver      | mg/kg        | 1.20E+01   | 3.28E-07         | 1.23E-06      | 2.12E-10          |
| 194         | 12        | Surface      | Total PAH   | mg/kg        | 8.91E-01   | 2.44E-08         | 2.98E-07      | 1.17E-09          |
| 194         | 13        | Surface      | Chromium    | mg/kg        | 4.77E+01   | 1.31E-06         | 6.14E-06      | 8.42E-10          |
| 194         | 13        | Surface      | Nickel      | mg/kg        | 6.03E+01   | 1.65E-06         | 6.21E-06      | 1.07E-09          |
| 194         | 13        | Surface      | Total PAH   | mg/kg        | 9.13E-02   | 2.50E-09         | 3.06E-08      | 1.19E-10          |
| 194         | 14        | Surface      | Chromium    | mg/kg        | 5.21E+01   | 1.43E-06         | 6.71E-06      | 9.21E-10          |

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**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 14        | Surface      | Mercury     | mg/kg        | 8.14E+00   | 2.23E-07         | 1.05E-06      | 4.29E-06          |
| 194         | 15        | Surface      | Chromium    | mg/kg        | 5.33E+01   | 1.46E-06         | 6.87E-06      | 9.43E-10          |
| 194         | 15        | Surface      | Silver      | mg/kg        | 1.03E+01   | 2.82E-07         | 1.06E-06      | 1.82E-10          |
| 194         | 16        | Surface      | Antimony    | mg/kg        | 7.40E-01   | 2.03E-08         | 9.53E-08      | 1.31E-11          |
| 194         | 16        | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 3.16E-07         | 8.90E-07      | 2.04E-10          |
| 194         | 16        | Surface      | Beryllium   | mg/kg        | 8.70E-01   | 2.38E-08         | 1.57E-08      | 1.54E-11          |
| 194         | 16        | Surface      | Chromium    | mg/kg        | 5.32E+01   | 1.46E-06         | 6.86E-06      | 9.41E-10          |
| 194         | 16        | Surface      | Nickel      | mg/kg        | 7.20E+01   | 1.97E-06         | 7.42E-06      | 1.27E-09          |
| 194         | 16        | Surface      | Thallium    | mg/kg        | 6.30E-01   | 1.73E-08         | 8.11E-08      | 1.11E-11          |
| 194         | 16        | Surface      | Vanadium    | mg/kg        | 4.11E+01   | 1.13E-06         | 2.75E-06      | 7.26E-10          |
| 194         | 17        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 3.16E-07         | 8.92E-07      | 2.04E-10          |
| 194         | 17        | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 3.01E-08         | 2.83E-09      | 1.94E-11          |
| 194         | 17        | Surface      | Chromium    | mg/kg        | 4.65E+01   | 1.27E-06         | 5.99E-06      | 8.22E-10          |
| 194         | 17        | Surface      | Total PAH   | mg/kg        | 1.59E-01   | 4.35E-09         | 5.31E-08      | 2.07E-10          |
| 194         | 18        | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 2.90E-07         | 8.17E-07      | 1.87E-10          |
| 194         | 18        | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 2.03E-08         | 1.33E-08      | 1.31E-11          |
| 194         | 18        | Surface      | Chromium    | mg/kg        | 6.85E+01   | 1.88E-06         | 8.82E-06      | 1.21E-09          |
| 194         | 18        | Surface      | Nickel      | mg/kg        | 5.78E+01   | 1.58E-06         | 5.95E-06      | 1.02E-09          |
| 194         | 19        | Surface      | Arsenic     | mg/kg        | 1.07E+01   | 2.93E-07         | 8.26E-07      | 1.89E-10          |
| 194         | 19        | Surface      | Chromium    | mg/kg        | 4.84E+01   | 1.32E-06         | 6.23E-06      | 8.55E-10          |
| 194         | 19        | Surface      | Nickel      | mg/kg        | 5.84E+01   | 1.60E-06         | 6.01E-06      | 1.03E-09          |
| 194         | 20        | Surface      | Arsenic     | mg/kg        | 1.18E+01   | 3.24E-07         | 9.15E-07      | 2.09E-10          |
| 194         | 20        | Surface      | Barium      | mg/kg        | 3.26E+02   | 8.93E-06         | 4.20E-05      | 5.76E-09          |
| 194         | 20        | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 3.01E-08         | 1.98E-08      | 1.94E-11          |
| 194         | 20        | Surface      | Chromium    | mg/kg        | 5.24E+01   | 1.43E-06         | 6.74E-06      | 9.25E-10          |
| 194         | 20        | Surface      | Cobalt      | mg/kg        | 2.11E+01   | 5.78E-07         | 2.72E-06      | 3.73E-10          |
| 194         | 20        | Surface      | Manganese   | mg/kg        | 2.29E+03   | 6.28E-05         | 2.36E-04      | 4.05E-08          |
| 194         | 20        | Surface      | Mercury     | mg/kg        | 7.28E+00   | 1.99E-07         | 9.37E-07      | 3.84E-06          |
| 194         | 20        | Surface      | Nickel      | mg/kg        | 6.57E+01   | 1.80E-06         | 6.77E-06      | 1.16E-09          |
| 194         | 20        | Surface      | Silver      | mg/kg        | 1.22E+01   | 3.35E-07         | 1.26E-06      | 2.16E-10          |
| 194         | 20        | Surface      | Total PAH   | mg/kg        | 3.10E-02   | 8.49E-10         | 1.04E-08      | 4.05E-11          |
| 194         | 20        | Surface      | Vanadium    | mg/kg        | 3.81E+01   | 1.04E-06         | 2.55E-06      | 6.73E-10          |
| 194         | 21        | Surface      | Antimony    | mg/kg        | 9.30E-01   | 2.55E-08         | 1.20E-07      | 1.64E-11          |
| 194         | 21        | Surface      | Chromium    | mg/kg        | 5.51E+01   | 1.51E-06         | 7.09E-06      | 9.74E-10          |
| 194         | 21        | Surface      | Mercury     | mg/kg        | 6.62E+00   | 1.81E-07         | 8.52E-07      | 3.49E-06          |
| 194         | 21        | Surface      | Nickel      | mg/kg        | 7.01E+01   | 1.92E-06         | 7.22E-06      | 1.24E-09          |
| 194         | 21        | Surface      | Thallium    | mg/kg        | 6.40E-01   | 1.75E-08         | 8.24E-08      | 1.13E-11          |
| 194         | 22        | Surface      | Chromium    | mg/kg        | 4.90E+01   | 1.34E-06         | 6.31E-06      | 8.66E-10          |
| 194         | 22        | Surface      | Manganese   | mg/kg        | 8.19E+02   | 2.24E-05         | 8.44E-05      | 1.45E-08          |
| 194         | 22        | Surface      | PCB, Total  | mg/kg        | 1.09E+01   | 2.99E-07         | 3.94E-06      | 3.25E-07          |
| 194         | 23        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 3.16E-07         | 8.92E-07      | 2.04E-10          |

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

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 23        | Surface      | Chromium    | mg/kg        | 6.60E+01   | 1.81E-06         | 8.49E-06      | 1.17E-09          |
| 194         | 23        | Surface      | Iron        | mg/kg        | 1.83E+04   | 5.01E-04         | 2.35E-03      | 3.23E-07          |
| 194         | 23        | Surface      | Nickel      | mg/kg        | 8.77E+01   | 2.40E-06         | 9.03E-06      | 1.55E-09          |
| 194         | 23        | Surface      | Silver      | mg/kg        | 1.15E+01   | 3.15E-07         | 1.18E-06      | 2.03E-10          |
| 194         | 24        | Surface      | Chromium    | mg/kg        | 5.02E+01   | 1.38E-06         | 6.47E-06      | 8.87E-10          |
| 194         | 24        | Surface      | Nickel      | mg/kg        | 7.08E+01   | 1.94E-06         | 7.29E-06      | 1.25E-09          |
| 194         | 24        | Surface      | Total PAH   | mg/kg        | 2.28E-02   | 6.25E-10         | 7.63E-09      | 2.98E-11          |
| 194         | 25        | Surface      | Barium      | mg/kg        | 3.00E+02   | 8.22E-06         | 3.86E-05      | 5.30E-09          |
| 194         | 25        | Surface      | Chromium    | mg/kg        | 6.13E+01   | 1.68E-06         | 7.89E-06      | 1.08E-09          |
| 194         | 25        | Surface      | Manganese   | mg/kg        | 9.96E+02   | 2.73E-05         | 1.03E-04      | 1.76E-08          |
| 194         | 25        | Surface      | Nickel      | mg/kg        | 6.33E+01   | 1.73E-06         | 6.52E-06      | 1.12E-09          |
| 194         | 25        | Surface      | Total PAH   | mg/kg        | 2.06E-02   | 5.64E-10         | 6.90E-09      | 2.69E-11          |
| 194         | 26        | Surface      | Beryllium   | mg/kg        | 7.00E-01   | 1.92E-08         | 1.26E-08      | 1.24E-11          |
| 194         | 26        | Surface      | Chromium    | mg/kg        | 4.18E+01   | 1.15E-06         | 5.39E-06      | 7.39E-10          |
| 194         | 26        | Surface      | Silver      | mg/kg        | 1.03E+01   | 2.81E-07         | 1.06E-06      | 1.82E-10          |
| 194         | 26        | Surface      | Thallium    | mg/kg        | 3.90E-01   | 1.07E-08         | 5.02E-08      | 6.89E-12          |
| 194         | 27        | Surface      | Chromium    | mg/kg        | 5.22E+01   | 1.43E-06         | 6.72E-06      | 9.22E-10          |
| 194         | 27        | Surface      | Nickel      | mg/kg        | 6.55E+01   | 1.79E-06         | 6.75E-06      | 1.16E-09          |
| 194         | 27        | Surface      | Silver      | mg/kg        | 1.01E+01   | 2.77E-07         | 1.04E-06      | 1.79E-10          |
| 194         | 28        | Surface      | Arsenic     | mg/kg        | 1.20E+01   | 3.30E-07         | 9.29E-07      | 2.13E-10          |
| 194         | 28        | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 1.95E-08         | 1.28E-08      | 1.25E-11          |
| 194         | 28        | Surface      | Chromium    | mg/kg        | 6.07E+01   | 1.66E-06         | 7.82E-06      | 1.07E-09          |
| 194         | 28        | Surface      | Manganese   | mg/kg        | 1.14E+03   | 3.12E-05         | 1.17E-04      | 2.01E-08          |
| 194         | 28        | Surface      | Nickel      | mg/kg        | 6.95E+01   | 1.90E-06         | 7.15E-06      | 1.23E-09          |
| 194         | 28        | Surface      | Silver      | mg/kg        | 1.08E+01   | 2.96E-07         | 1.11E-06      | 1.91E-10          |
| 194         | 28        | Surface      | Vanadium    | mg/kg        | 4.06E+01   | 1.11E-06         | 2.72E-06      | 7.18E-10          |
| 194         | 29        | Surface      | Antimony    | mg/kg        | 7.10E-01   | 1.95E-08         | 9.14E-08      | 1.25E-11          |
| 194         | 29        | Surface      | Chromium    | mg/kg        | 5.06E+01   | 1.39E-06         | 6.51E-06      | 8.94E-10          |
| 194         | 29        | Surface      | Nickel      | mg/kg        | 6.51E+01   | 1.78E-06         | 6.71E-06      | 1.15E-09          |
| 194         | 29        | Surface      | Silver      | mg/kg        | 9.77E+00   | 2.68E-07         | 1.01E-06      | 1.73E-10          |
| 194         | 30        | Surface      | Chromium    | mg/kg        | 5.66E+01   | 1.55E-06         | 7.28E-06      | 1.00E-09          |
| 194         | 30        | Surface      | Mercury     | mg/kg        | 8.80E+00   | 2.41E-07         | 1.13E-06      | 4.64E-06          |
| 194         | 30        | Surface      | Nickel      | mg/kg        | 6.99E+01   | 1.91E-06         | 7.20E-06      | 1.23E-09          |
| 194         | 30        | Surface      | Silver      | mg/kg        | 9.76E+00   | 2.67E-07         | 1.01E-06      | 1.73E-10          |
| 196         | 1         | Surface      | Antimony    | mg/kg        | 5.90E-01   | 1.62E-08         | 7.60E-08      | 1.04E-11          |
| 196         | 1         | Surface      | Chromium    | mg/kg        | 1.96E+01   | 5.37E-07         | 2.52E-06      | 3.46E-10          |
| 196         | 1         | Surface      | Nickel      | mg/kg        | 5.56E+02   | 1.52E-05         | 5.73E-05      | 9.83E-09          |
| 196         | 1         | Surface      | Uranium     | mg/kg        | 2.33E+01   | 6.38E-07         | 3.00E-06      | 4.12E-10          |
| 196         | 2         | Surface      | Barium      | mg/kg        | 2.02E+02   | 5.53E-06         | 2.60E-05      | 3.57E-09          |
| 196         | 2         | Surface      | Cadmium     | mg/kg        | 2.53E+00   | 6.93E-08         | 6.52E-09      | 4.47E-11          |
| 196         | 2         | Surface      | Chromium    | mg/kg        | 2.07E+01   | 5.67E-07         | 2.67E-06      | 3.66E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 196         | 2         | Surface      | Nickel      | mg/kg        | 7.36E+01   | 2.02E-06         | 7.58E-06      | 1.30E-09          |
| 196         | 2         | Surface      | PCB, Total  | mg/kg        | 1.51E+00   | 4.14E-08         | 5.44E-07      | 4.50E-08          |
| 196         | 2         | Surface      | Total PAH   | mg/kg        | 6.80E-01   | 1.86E-08         | 2.28E-07      | 8.89E-10          |
| 489         | 1         | Surface      | Chromium    | mg/kg        | 4.16E+01   | 1.14E-06         | 5.36E-06      | 7.36E-10          |
| 489         | 1         | Surface      | Nickel      | mg/kg        | 7.88E+01   | 2.16E-06         | 8.12E-06      | 1.39E-09          |
| 489         | 1         | Surface      | Total PAH   | mg/kg        | 8.22E-02   | 2.25E-09         | 2.75E-08      | 1.07E-10          |
| 531         | 1         | Surface      | Antimony    | mg/kg        | 1.00E+00   | 2.74E-08         | 1.29E-07      | 1.77E-11          |
| 531         | 1         | Surface      | Arsenic     | mg/kg        | 4.68E+01   | 1.28E-06         | 3.62E-06      | 8.28E-10          |
| 531         | 1         | Surface      | Cadmium     | mg/kg        | 3.10E+00   | 8.49E-08         | 7.98E-09      | 5.48E-11          |
| 531         | 1         | Surface      | Chromium    | mg/kg        | 5.05E+01   | 1.38E-06         | 6.50E-06      | 8.92E-10          |
| 531         | 1         | Surface      | Iron        | mg/kg        | 5.68E+04   | 1.56E-03         | 7.32E-03      | 1.00E-06          |
| 531         | 1         | Surface      | Nickel      | mg/kg        | 1.62E+02   | 4.44E-06         | 1.67E-05      | 2.87E-09          |
| 531         | 1         | Surface      | Total PAH   | mg/kg        | 5.34E-02   | 1.46E-09         | 1.79E-08      | 6.98E-11          |
| 531         | 1         | Surface      | Uranium     | mg/kg        | 2.41E+01   | 6.59E-07         | 3.10E-06      | 4.25E-10          |
| 531         | 1         | Surface      | Zinc        | mg/kg        | 2.45E+03   | 6.72E-05         | 3.16E-04      | 4.33E-08          |
| 200         | 1         | Surface      | Antimony    | mg/kg        | 5.60E-01   | 1.53E-08         | 7.21E-08      | 9.90E-12          |
| 200         | 1         | Surface      | Chromium    | mg/kg        | 5.75E+01   | 1.58E-06         | 7.41E-06      | 1.02E-09          |
| 200         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 1.84E-07         | 8.64E-07      | 3.54E-06          |
| 200         | 1         | Surface      | Nickel      | mg/kg        | 1.28E+02   | 3.51E-06         | 1.32E-05      | 2.26E-09          |
| 200         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E+00   | 7.12E-08         | 9.37E-07      | 7.75E-08          |
| 200         | 1         | Surface      | Total PAH   | mg/kg        | 2.84E-02   | 7.78E-10         | 9.51E-09      | 3.71E-11          |
| 200         | 1         | Surface      | Uranium     | mg/kg        | 2.73E+01   | 7.48E-07         | 3.52E-06      | 4.83E-10          |
| 212         | 1         | Surface      | Arsenic     | mg/kg        | 1.44E+01   | 3.95E-07         | 1.11E-06      | 2.55E-10          |
| 212         | 1         | Surface      | Beryllium   | mg/kg        | 8.10E-01   | 2.22E-08         | 1.46E-08      | 1.43E-11          |
| 212         | 1         | Surface      | Chromium    | mg/kg        | 3.58E+01   | 9.81E-07         | 4.61E-06      | 6.33E-10          |
| 212         | 1         | Surface      | Iron        | mg/kg        | 4.14E+04   | 1.13E-03         | 5.33E-03      | 7.32E-07          |
| 212         | 1         | Surface      | Nickel      | mg/kg        | 8.69E+01   | 2.38E-06         | 8.95E-06      | 1.54E-09          |
| 212         | 1         | Surface      | PCB, Total  | mg/kg        | 1.80E-01   | 4.93E-09         | 6.49E-08      | 5.36E-09          |
| 212         | 1         | Surface      | Uranium     | mg/kg        | 2.30E+01   | 6.30E-07         | 2.96E-06      | 4.07E-10          |
| 213         | 1         | Surface      | Antimony    | mg/kg        | 8.50E-01   | 2.33E-08         | 1.09E-07      | 1.50E-11          |
| 213         | 1         | Surface      | Chromium    | mg/kg        | 4.78E+01   | 1.31E-06         | 6.16E-06      | 8.45E-10          |
| 213         | 1         | Surface      | Nickel      | mg/kg        | 6.67E+01   | 1.83E-06         | 6.87E-06      | 1.18E-09          |
| 213         | 1         | Surface      | PCB, Total  | mg/kg        | 7.30E-02   | 2.00E-09         | 2.63E-08      | 2.18E-09          |
| 213         | 1         | Surface      | Silver      | mg/kg        | 1.32E+01   | 3.61E-07         | 1.36E-06      | 2.33E-10          |
| 213         | 1         | Surface      | Total PAH   | mg/kg        | 1.72E-01   | 4.71E-09         | 5.75E-08      | 2.25E-10          |
| 213         | 2         | Surface      | Chromium    | mg/kg        | 4.48E+01   | 1.23E-06         | 5.77E-06      | 7.92E-10          |
| 213         | 2         | Surface      | Nickel      | mg/kg        | 9.10E+01   | 2.49E-06         | 9.37E-06      | 1.61E-09          |
| 213         | 2         | Surface      | Silver      | mg/kg        | 1.13E+01   | 3.08E-07         | 1.16E-06      | 1.99E-10          |
| 214         | 1         | Surface      | Antimony    | mg/kg        | 5.70E-01   | 1.56E-08         | 7.34E-08      | 1.01E-11          |
| 215         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 1.86E-08         | 8.76E-08      | 1.20E-11          |
| 215         | 1         | Surface      | Chromium    | mg/kg        | 5.73E+01   | 1.57E-06         | 7.38E-06      | 1.01E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 215         | 1         | Surface      | Iron        | mg/kg        | 3.87E+04   | 1.06E-03         | 4.98E-03      | 6.84E-07          |
| 215         | 1         | Surface      | Nickel      | mg/kg        | 7.32E+01   | 2.00E-06         | 7.54E-06      | 1.29E-09          |
| 215         | 1         | Surface      | Total PAH   | mg/kg        | 8.09E-02   | 2.22E-09         | 2.71E-08      | 1.06E-10          |
| 216         | 1         | Surface      | Chromium    | mg/kg        | 2.38E+01   | 6.52E-07         | 3.06E-06      | 4.21E-10          |
| 216         | 1         | Surface      | Total PAH   | mg/kg        | 1.49E-01   | 4.09E-09         | 5.00E-08      | 1.95E-10          |
| 217         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 2.35E-06         | 1.10E-05      | 1.52E-09          |
| 217         | 1         | Surface      | Cobalt      | mg/kg        | 1.96E+01   | 5.36E-07         | 2.52E-06      | 3.46E-10          |
| 217         | 1         | Surface      | Manganese   | mg/kg        | 7.70E+02   | 2.11E-05         | 7.93E-05      | 1.36E-08          |
| 217         | 1         | Surface      | Nickel      | mg/kg        | 8.54E+01   | 2.34E-06         | 8.80E-06      | 1.51E-09          |
| 217         | 1         | Surface      | Silver      | mg/kg        | 1.35E+01   | 3.68E-07         | 1.39E-06      | 2.38E-10          |
| 217         | 2         | Surface      | Antimony    | mg/kg        | 1.70E+00   | 4.66E-08         | 2.19E-07      | 3.00E-11          |
| 217         | 2         | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 3.06E-07         | 8.62E-07      | 1.97E-10          |
| 217         | 2         | Surface      | Chromium    | mg/kg        | 1.02E+02   | 2.78E-06         | 1.31E-05      | 1.80E-09          |
| 217         | 2         | Surface      | Cobalt      | mg/kg        | 1.74E+01   | 4.77E-07         | 2.24E-06      | 3.08E-10          |
| 217         | 2         | Surface      | Iron        | mg/kg        | 3.09E+04   | 8.47E-04         | 3.98E-03      | 5.47E-07          |
| 217         | 2         | Surface      | Manganese   | mg/kg        | 8.44E+02   | 2.31E-05         | 8.69E-05      | 1.49E-08          |
| 217         | 2         | Surface      | Mercury     | mg/kg        | 8.59E+00   | 2.35E-07         | 1.11E-06      | 4.53E-06          |
| 217         | 2         | Surface      | Nickel      | mg/kg        | 9.74E+01   | 2.67E-06         | 1.00E-05      | 1.72E-09          |
| 217         | 2         | Surface      | Silver      | mg/kg        | 1.61E+01   | 4.41E-07         | 1.66E-06      | 2.84E-10          |
| 217         | 2         | Surface      | Total PAH   | mg/kg        | 5.05E-01   | 1.38E-08         | 1.69E-07      | 6.60E-10          |
| 221         | 1         | Surface      | Barium      | mg/kg        | 2.21E+02   | 6.05E-06         | 2.85E-05      | 3.91E-09          |
| 221         | 1         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 1.92E-06         | 9.03E-06      | 1.24E-09          |
| 221         | 1         | Surface      | Iron        | mg/kg        | 1.90E+04   | 5.20E-04         | 2.44E-03      | 3.35E-07          |
| 221         | 1         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 2.17E-06         | 8.16E-06      | 1.40E-09          |
| 221         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 1.37E-08         | 1.80E-07      | 1.49E-08          |
| 221         | 1         | Surface      | Total PAH   | mg/kg        | 1.02E+00   | 2.80E-08         | 3.42E-07      | 1.34E-09          |
| 221         | 1         | Surface      | Uranium     | mg/kg        | 1.64E+01   | 4.48E-07         | 2.11E-06      | 2.89E-10          |
| 222         | 1         | Surface      | Chromium    | mg/kg        | 4.73E+01   | 1.30E-06         | 6.09E-06      | 8.36E-10          |
| 222         | 1         | Surface      | Nickel      | mg/kg        | 9.19E+01   | 2.52E-06         | 9.47E-06      | 1.62E-09          |
| 222         | 1         | Surface      | PCB, Total  | mg/kg        | 1.40E+00   | 3.84E-08         | 5.05E-07      | 4.17E-08          |
| 222         | 1         | Surface      | Total PAH   | mg/kg        | 1.77E-01   | 4.85E-09         | 5.93E-08      | 2.32E-10          |
| 222         | 1         | Surface      | Uranium     | mg/kg        | 2.80E+01   | 7.67E-07         | 3.60E-06      | 4.95E-10          |
| 227         | 1         | Surface      | Beryllium   | mg/kg        | 5.52E-01   | 1.51E-08         | 9.95E-09      | 9.76E-12          |
| 227         | 1         | Surface      | Chromium    | mg/kg        | 4.71E+01   | 1.29E-06         | 6.07E-06      | 8.33E-10          |
| 227         | 1         | Surface      | Nickel      | mg/kg        | 2.03E+02   | 5.56E-06         | 2.09E-05      | 3.59E-09          |
| 227         | 1         | Surface      | PCB, Total  | mg/kg        | 4.14E+00   | 1.14E-07         | 1.49E-06      | 1.23E-07          |
| 227         | 1         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 9.26E-09         | 1.13E-07      | 4.42E-10          |
| 227         | 1         | Surface      | Uranium     | mg/kg        | 1.02E+02   | 2.78E-06         | 1.31E-05      | 1.80E-09          |
| 227         | 2         | Surface      | Beryllium   | mg/kg        | 5.32E-01   | 1.46E-08         | 9.59E-09      | 9.40E-12          |
| 227         | 2         | Surface      | Chromium    | mg/kg        | 5.63E+01   | 1.54E-06         | 7.25E-06      | 9.95E-10          |
| 227         | 2         | Surface      | Cobalt      | mg/kg        | 8.99E+00   | 2.46E-07         | 1.16E-06      | 1.59E-10          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 227         | 2         | Surface      | Mercury     | mg/kg        | 8.41E+00   | 2.30E-07         | 1.08E-06      | 4.43E-06          |
| 227         | 2         | Surface      | Nickel      | mg/kg        | 1.25E+02   | 3.42E-06         | 1.29E-05      | 2.21E-09          |
| 227         | 2         | Surface      | PCB, Total  | mg/kg        | 5.82E+00   | 1.59E-07         | 2.10E-06      | 1.73E-07          |
| 227         | 2         | Surface      | Total PAH   | mg/kg        | 1.16E-01   | 3.17E-09         | 3.87E-08      | 1.51E-10          |
| 227         | 2         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 4.12E-07         | 1.94E-06      | 2.66E-10          |
| 228         | 1         | Surface      | Antimony    | mg/kg        | 6.30E-01   | 1.73E-08         | 8.11E-08      | 1.11E-11          |
| 228         | 1         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 1.07E-07         | 1.00E-08      | 6.89E-11          |
| 228         | 1         | Surface      | Chromium    | mg/kg        | 1.89E+02   | 5.18E-06         | 2.43E-05      | 3.34E-09          |
| 228         | 1         | Surface      | Mercury     | mg/kg        | 9.37E+00   | 2.57E-07         | 1.21E-06      | 4.94E-06          |
| 228         | 1         | Surface      | Nickel      | mg/kg        | 7.92E+01   | 2.17E-06         | 8.15E-06      | 1.40E-09          |
| 228         | 1         | Surface      | Silver      | mg/kg        | 1.16E+01   | 3.19E-07         | 1.20E-06      | 2.06E-10          |
| 228         | 1         | Surface      | Total PAH   | mg/kg        | 6.69E-02   | 1.83E-09         | 2.24E-08      | 8.74E-11          |
| 228         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 4.15E-07         | 1.95E-06      | 2.67E-10          |
| 76          | 1         | Surface      | Barium      | mg/kg        | 2.69E+02   | 7.37E-06         | 3.46E-05      | 4.75E-09          |
| 76          | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 7.12E-09         | 9.37E-08      | 7.75E-09          |
| 76          | 1         | Surface      | Total PAH   | mg/kg        | 1.76E+00   | 4.82E-08         | 5.89E-07      | 2.30E-09          |
| 165         | 1         | Surface      | Antimony    | mg/kg        | 2.20E+00   | 6.03E-08         | 2.83E-07      | 3.89E-11          |
| 165         | 1         | Surface      | Arsenic     | mg/kg        | 6.35E+01   | 1.74E-06         | 4.91E-06      | 1.12E-09          |
| 165         | 1         | Surface      | Barium      | mg/kg        | 5.84E+02   | 1.60E-05         | 7.52E-05      | 1.03E-08          |
| 165         | 1         | Surface      | Beryllium   | mg/kg        | 6.82E-01   | 1.87E-08         | 1.23E-08      | 1.21E-11          |
| 165         | 1         | Surface      | Chromium    | mg/kg        | 3.74E+01   | 1.02E-06         | 4.81E-06      | 6.61E-10          |
| 165         | 1         | Surface      | Mercury     | mg/kg        | 3.78E-01   | 1.04E-08         | 4.87E-08      | 1.99E-07          |
| 165         | 1         | Surface      | Naphthalene | mg/kg        | 1.61E+00   | 4.41E-08         | 1.04E-06      | 9.49E-07          |
| 165         | 1         | Surface      | Nickel      | mg/kg        | 3.47E+01   | 9.50E-07         | 3.57E-06      | 6.13E-10          |
| 165         | 1         | Surface      | PCB, Total  | mg/kg        | 8.27E+00   | 2.27E-07         | 2.98E-06      | 2.46E-07          |
| 165         | 1         | Surface      | Silver      | mg/kg        | 3.09E+01   | 8.47E-07         | 3.19E-06      | 5.47E-10          |
| 165         | 1         | Surface      | Total PAH   | mg/kg        | 1.87E+00   | 5.12E-08         | 6.25E-07      | 2.44E-09          |
| 165         | 1         | Surface      | Uranium     | mg/kg        | 1.08E+02   | 2.95E-06         | 1.38E-05      | 1.90E-09          |
| 158         | 1         | Surface      | Antimony    | mg/kg        | 5.23E-01   | 1.43E-08         | 6.73E-08      | 9.24E-12          |
| 158         | 1         | Surface      | Arsenic     | mg/kg        | 1.01E+01   | 2.77E-07         | 7.82E-07      | 1.79E-10          |
| 158         | 1         | Surface      | Barium      | mg/kg        | 2.19E+02   | 5.99E-06         | 2.82E-05      | 3.87E-09          |
| 158         | 1         | Surface      | Chromium    | mg/kg        | 6.07E+01   | 1.66E-06         | 7.82E-06      | 1.07E-09          |
| 158         | 1         | Surface      | Cobalt      | mg/kg        | 1.62E+01   | 4.44E-07         | 2.09E-06      | 2.87E-10          |
| 158         | 1         | Surface      | Manganese   | mg/kg        | 9.91E+02   | 2.71E-05         | 1.02E-04      | 1.75E-08          |
| 158         | 1         | Surface      | Mercury     | mg/kg        | 1.05E+01   | 2.87E-07         | 1.35E-06      | 5.51E-06          |
| 158         | 1         | Surface      | Nickel      | mg/kg        | 7.28E+01   | 2.00E-06         | 7.50E-06      | 1.29E-09          |
| 158         | 1         | Surface      | Thallium    | mg/kg        | 3.12E-01   | 8.55E-09         | 4.02E-08      | 5.51E-12          |
| 158         | 1         | Surface      | Total PAH   | mg/kg        | 3.69E-01   | 1.01E-08         | 1.24E-07      | 4.82E-10          |
| 158         | 1         | Surface      | Uranium     | mg/kg        | 2.03E+01   | 5.56E-07         | 2.61E-06      | 3.59E-10          |
| 169         | 1         | Surface      | Aluminum    | mg/kg        | 1.42E+04   | 3.89E-04         | 1.83E-03      | 2.51E-07          |
| 169         | 1         | Surface      | Antimony    | mg/kg        | 1.30E+00   | 3.56E-08         | 1.67E-07      | 2.30E-11          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 169         | 1         | Surface      | Arsenic     | mg/kg        | 2.03E+01   | 5.56E-07         | 1.57E-06      | 3.59E-10          |
| 169         | 1         | Surface      | Beryllium   | mg/kg        | 8.00E-01   | 2.19E-08         | 1.44E-08      | 1.41E-11          |
| 169         | 1         | Surface      | Chromium    | mg/kg        | 2.15E+02   | 5.89E-06         | 2.77E-05      | 3.80E-09          |
| 169         | 1         | Surface      | Copper      | mg/kg        | 3.74E+02   | 1.03E-05         | 4.82E-05      | 6.62E-09          |
| 169         | 1         | Surface      | Iron        | mg/kg        | 4.16E+04   | 1.14E-03         | 5.35E-03      | 7.35E-07          |
| 169         | 1         | Surface      | Mercury     | mg/kg        | 7.87E+00   | 2.16E-07         | 1.01E-06      | 4.15E-06          |
| 169         | 1         | Surface      | Nickel      | mg/kg        | 5.49E+02   | 1.50E-05         | 5.65E-05      | 9.70E-09          |
| 169         | 1         | Surface      | PCB, Total  | mg/kg        | 1.00E+01   | 2.74E-07         | 3.61E-06      | 2.98E-07          |
| 169         | 1         | Surface      | Thallium    | mg/kg        | 4.60E-01   | 1.26E-08         | 5.92E-08      | 8.13E-12          |
| 169         | 1         | Surface      | Total PAH   | mg/kg        | 4.59E+00   | 1.26E-07         | 1.54E-06      | 5.99E-09          |
| 169         | 1         | Surface      | Uranium     | mg/kg        | 5.03E+01   | 1.38E-06         | 6.48E-06      | 8.89E-10          |
| 19          | 1         | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 3.01E-08         | 1.98E-08      | 1.94E-11          |
| 19          | 1         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 3.29E-08         | 3.09E-09      | 2.12E-11          |
| 19          | 1         | Surface      | Thallium    | mg/kg        | 9.80E-01   | 2.68E-08         | 1.26E-07      | 1.73E-11          |
| 19          | 1         | Surface      | Total PAH   | mg/kg        | 5.23E+00   | 1.43E-07         | 1.75E-06      | 6.83E-09          |
| 138         | 1         | Surface      | Antimony    | mg/kg        | 5.39E+00   | 1.48E-07         | 6.95E-07      | 9.53E-11          |
| 138         | 1         | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 2.91E-07         | 8.21E-07      | 1.88E-10          |
| 138         | 1         | Surface      | Cadmium     | mg/kg        | 5.42E+00   | 1.48E-07         | 1.40E-08      | 9.58E-11          |
| 138         | 1         | Surface      | Chromium    | mg/kg        | 5.39E+01   | 1.48E-06         | 6.93E-06      | 9.52E-10          |
| 138         | 1         | Surface      | Mercury     | mg/kg        | 1.30E+01   | 3.56E-07         | 1.67E-06      | 6.84E-06          |
| 138         | 1         | Surface      | Nickel      | mg/kg        | 7.04E+01   | 1.93E-06         | 7.25E-06      | 1.24E-09          |
| 138         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 1.37E-08         | 1.80E-07      | 1.49E-08          |
| 138         | 1         | Surface      | Silver      | mg/kg        | 1.01E+01   | 2.76E-07         | 1.04E-06      | 1.78E-10          |
| 138         | 1         | Surface      | Total PAH   | mg/kg        | 9.74E-02   | 2.67E-09         | 3.26E-08      | 1.27E-10          |
| 138         | 2         | Surface      | Nickel      | mg/kg        | 7.99E+01   | 2.19E-06         | 8.23E-06      | 1.41E-09          |
| 138         | 2         | Surface      | PCB, Total  | mg/kg        | 9.20E-02   | 2.52E-09         | 3.32E-08      | 2.74E-09          |
| 138         | 2         | Surface      | Silver      | mg/kg        | 1.04E+01   | 2.86E-07         | 1.08E-06      | 1.85E-10          |
| 138         | 2         | Surface      | Total PAH   | mg/kg        | 3.84E-02   | 1.05E-09         | 1.29E-08      | 5.02E-11          |
| 180         | 1         | Surface      | Antimony    | mg/kg        | 5.80E-01   | 1.59E-08         | 7.47E-08      | 1.03E-11          |
| 180         | 1         | Surface      | Arsenic     | mg/kg        | 7.48E+01   | 2.05E-06         | 5.78E-06      | 1.32E-09          |
| 180         | 1         | Surface      | Chromium    | mg/kg        | 5.54E+01   | 1.52E-06         | 7.14E-06      | 9.80E-10          |
| 180         | 1         | Surface      | Mercury     | mg/kg        | 8.28E+00   | 2.27E-07         | 1.07E-06      | 4.36E-06          |
| 180         | 1         | Surface      | Nickel      | mg/kg        | 8.77E+01   | 2.40E-06         | 9.03E-06      | 1.55E-09          |
| 180         | 2         | Surface      | Antimony    | mg/kg        | 4.58E-01   | 1.25E-08         | 5.90E-08      | 8.10E-12          |
| 180         | 2         | Surface      | Arsenic     | mg/kg        | 1.27E+01   | 3.47E-07         | 9.77E-07      | 2.24E-10          |
| 180         | 2         | Surface      | Chromium    | mg/kg        | 4.46E+01   | 1.22E-06         | 5.75E-06      | 7.89E-10          |
| 180         | 2         | Surface      | Nickel      | mg/kg        | 8.42E+01   | 2.31E-06         | 8.67E-06      | 1.49E-09          |
| 180         | 2         | Surface      | Total PAH   | mg/kg        | 9.19E-02   | 2.52E-09         | 3.08E-08      | 1.20E-10          |
| 180         | 3         | Surface      | Arsenic     | mg/kg        | 1.34E+01   | 3.66E-07         | 1.03E-06      | 2.36E-10          |
| 180         | 3         | Surface      | Chromium    | mg/kg        | 4.69E+01   | 1.29E-06         | 6.04E-06      | 8.30E-10          |
| 180         | 3         | Surface      | Nickel      | mg/kg        | 6.77E+01   | 1.86E-06         | 6.98E-06      | 1.20E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration



**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 180         | 3         | Surface      | Silver      | mg/kg        | 1.14E+01   | 3.12E-07         | 1.17E-06      | 2.02E-10          |
| 180         | 4         | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 3.16E-07         | 8.91E-07      | 2.04E-10          |
| 180         | 4         | Surface      | Barium      | mg/kg        | 2.13E+02   | 5.84E-06         | 2.74E-05      | 3.76E-09          |
| 180         | 4         | Surface      | Beryllium   | mg/kg        | 1.60E+00   | 4.38E-08         | 2.88E-08      | 2.83E-11          |
| 180         | 4         | Surface      | Chromium    | mg/kg        | 6.00E+01   | 1.64E-06         | 7.73E-06      | 1.06E-09          |
| 180         | 4         | Surface      | Iron        | mg/kg        | 1.54E+04   | 4.21E-04         | 1.98E-03      | 2.72E-07          |
| 180         | 4         | Surface      | Manganese   | mg/kg        | 7.09E+02   | 1.94E-05         | 7.30E-05      | 1.25E-08          |
| 180         | 4         | Surface      | Nickel      | mg/kg        | 6.46E+01   | 1.77E-06         | 6.66E-06      | 1.14E-09          |
| 180         | 4         | Surface      | Silver      | mg/kg        | 9.68E+00   | 2.65E-07         | 9.97E-07      | 1.71E-10          |
| 180         | 4         | Surface      | Total PAH   | mg/kg        | 2.15E-02   | 5.89E-10         | 7.20E-09      | 2.81E-11          |
| 180         | 4         | Surface      | Vanadium    | mg/kg        | 4.85E+01   | 1.33E-06         | 3.25E-06      | 8.57E-10          |
| 181         | 1         | Surface      | Chromium    | mg/kg        | 2.29E+01   | 6.26E-07         | 2.94E-06      | 4.04E-10          |
| 181         | 1         | Surface      | Thallium    | mg/kg        | 3.50E+00   | 9.59E-08         | 4.51E-07      | 6.19E-11          |
| 181         | 1         | Surface      | Total PAH   | mg/kg        | 3.43E-02   | 9.40E-10         | 1.15E-08      | 4.48E-11          |
| 195         | 1         | Surface      | Chromium    | mg/kg        | 6.33E+01   | 1.73E-06         | 8.15E-06      | 1.12E-09          |
| 195         | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 1.92E-06         | 7.23E-06      | 1.24E-09          |
| 195         | 1         | Surface      | Silver      | mg/kg        | 9.37E+00   | 2.57E-07         | 9.65E-07      | 1.66E-10          |
| 195         | 2         | Surface      | Chromium    | mg/kg        | 4.52E+01   | 1.24E-06         | 5.82E-06      | 7.99E-10          |
| 195         | 2         | Surface      | Silver      | mg/kg        | 9.48E+00   | 2.60E-07         | 9.77E-07      | 1.68E-10          |
| 195         | 2         | Surface      | Total PAH   | mg/kg        | 2.68E-02   | 7.34E-10         | 8.97E-09      | 3.50E-11          |
| 195         | 3         | Surface      | Chromium    | mg/kg        | 5.03E+01   | 1.38E-06         | 6.48E-06      | 8.89E-10          |
| 195         | 3         | Surface      | Nickel      | mg/kg        | 5.22E+01   | 1.43E-06         | 5.37E-06      | 9.22E-10          |
| 195         | 3         | Surface      | Total PAH   | mg/kg        | 4.06E-02   | 1.11E-09         | 1.36E-08      | 5.31E-11          |
| 195         | 4         | Surface      | Chromium    | mg/kg        | 5.29E+01   | 1.45E-06         | 6.81E-06      | 9.35E-10          |
| 195         | 4         | Surface      | Nickel      | mg/kg        | 6.23E+01   | 1.71E-06         | 6.42E-06      | 1.10E-09          |
| 195         | 5         | Surface      | Chromium    | mg/kg        | 5.74E+01   | 1.57E-06         | 7.39E-06      | 1.01E-09          |
| 195         | 5         | Surface      | Nickel      | mg/kg        | 8.11E+01   | 2.22E-06         | 8.35E-06      | 1.43E-09          |
| 195         | 5         | Surface      | Total PAH   | mg/kg        | 2.40E-02   | 6.58E-10         | 8.04E-09      | 3.14E-11          |
| 195         | 6         | Surface      | Chromium    | mg/kg        | 4.45E+01   | 1.22E-06         | 5.74E-06      | 7.87E-10          |
| 195         | 6         | Surface      | Nickel      | mg/kg        | 8.71E+01   | 2.39E-06         | 8.97E-06      | 1.54E-09          |
| 195         | 6         | Surface      | Total PAH   | mg/kg        | 2.48E-01   | 6.79E-09         | 8.29E-08      | 3.24E-10          |
| 195         | 7         | Surface      | Chromium    | mg/kg        | 4.93E+01   | 1.35E-06         | 6.34E-06      | 8.71E-10          |
| 195         | 7         | Surface      | Silver      | mg/kg        | 8.06E+00   | 2.21E-07         | 8.30E-07      | 1.42E-10          |
| 195         | 8         | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 3.17E-07         | 8.93E-07      | 2.04E-10          |
| 195         | 8         | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 2.03E-08         | 1.33E-08      | 1.31E-11          |
| 195         | 8         | Surface      | Chromium    | mg/kg        | 6.79E+01   | 1.86E-06         | 8.75E-06      | 1.20E-09          |
| 195         | 8         | Surface      | Cobalt      | mg/kg        | 1.82E+01   | 4.99E-07         | 2.34E-06      | 3.22E-10          |
| 195         | 8         | Surface      | Nickel      | mg/kg        | 7.01E+01   | 1.92E-06         | 7.22E-06      | 1.24E-09          |
| 195         | 8         | Surface      | Total PAH   | mg/kg        | 2.16E-01   | 5.91E-09         | 7.22E-08      | 2.82E-10          |
| 195         | 8         | Surface      | Vanadium    | mg/kg        | 4.04E+01   | 1.11E-06         | 2.71E-06      | 7.14E-10          |
| 195         | 9         | Surface      | Chromium    | mg/kg        | 6.08E+01   | 1.67E-06         | 7.83E-06      | 1.07E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 195         | 9         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 2.17E-06         | 8.17E-06      | 1.40E-09          |
| 195         | 10        | Surface      | Chromium    | mg/kg        | 4.51E+01   | 1.23E-06         | 5.80E-06      | 7.97E-10          |
| 195         | 10        | Surface      | Nickel      | mg/kg        | 7.40E+01   | 2.03E-06         | 7.63E-06      | 1.31E-09          |
| 195         | 10        | Surface      | Silver      | mg/kg        | 1.31E+01   | 3.59E-07         | 1.35E-06      | 2.32E-10          |
| 195         | 11        | Surface      | Aluminum    | mg/kg        | 2.81E+04   | 7.70E-04         | 3.62E-03      | 4.97E-07          |
| 195         | 11        | Surface      | Arsenic     | mg/kg        | 1.35E+01   | 3.69E-07         | 1.04E-06      | 2.38E-10          |
| 195         | 11        | Surface      | Barium      | mg/kg        | 4.53E+02   | 1.24E-05         | 5.83E-05      | 8.01E-09          |
| 195         | 11        | Surface      | Chromium    | mg/kg        | 5.05E+01   | 1.38E-06         | 6.50E-06      | 8.93E-10          |
| 195         | 11        | Surface      | Cobalt      | mg/kg        | 2.77E+01   | 7.59E-07         | 3.57E-06      | 4.90E-10          |
| 195         | 11        | Surface      | Iron        | mg/kg        | 1.97E+04   | 5.40E-04         | 2.54E-03      | 3.48E-07          |
| 195         | 11        | Surface      | Nickel      | mg/kg        | 6.77E+01   | 1.85E-06         | 6.97E-06      | 1.20E-09          |
| 195         | 11        | Surface      | Thallium    | mg/kg        | 6.60E-01   | 1.81E-08         | 8.50E-08      | 1.17E-11          |
| 195         | 11        | Surface      | Vanadium    | mg/kg        | 7.97E+01   | 2.18E-06         | 5.34E-06      | 1.41E-09          |
| 195         | 12        | Surface      | Beryllium   | mg/kg        | 7.50E-01   | 2.05E-08         | 1.35E-08      | 1.33E-11          |
| 195         | 12        | Surface      | Chromium    | mg/kg        | 7.04E+01   | 1.93E-06         | 9.06E-06      | 1.24E-09          |
| 195         | 12        | Surface      | Nickel      | mg/kg        | 6.78E+01   | 1.86E-06         | 6.98E-06      | 1.20E-09          |
| 195         | 13        | Surface      | Chromium    | mg/kg        | 6.55E+01   | 1.79E-06         | 8.44E-06      | 1.16E-09          |
| 195         | 13        | Surface      | Nickel      | mg/kg        | 6.91E+01   | 1.89E-06         | 7.12E-06      | 1.22E-09          |
| 195         | 14        | Surface      | Chromium    | mg/kg        | 5.94E+01   | 1.63E-06         | 7.65E-06      | 1.05E-09          |
| 195         | 14        | Surface      | Nickel      | mg/kg        | 7.04E+01   | 1.93E-06         | 7.25E-06      | 1.24E-09          |
| 195         | 15        | Surface      | Chromium    | mg/kg        | 4.82E+01   | 1.32E-06         | 6.20E-06      | 8.51E-10          |
| 195         | 16        | Surface      | Chromium    | mg/kg        | 4.45E+01   | 1.22E-06         | 5.72E-06      | 7.86E-10          |
| 195         | 16        | Surface      | Nickel      | mg/kg        | 8.16E+01   | 2.23E-06         | 8.40E-06      | 1.44E-09          |
| 195         | 17        | Surface      | Chromium    | mg/kg        | 8.22E+01   | 2.25E-06         | 1.06E-05      | 1.45E-09          |
| 195         | 17        | Surface      | Mercury     | mg/kg        | 4.17E-01   | 1.14E-08         | 5.37E-08      | 2.20E-07          |
| 195         | 17        | Surface      | Nickel      | mg/kg        | 5.93E+01   | 1.63E-06         | 6.11E-06      | 1.05E-09          |
| 195         | 17        | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 2.03E-08         | 2.67E-07      | 2.21E-08          |
| 195         | 17        | Surface      | Silver      | mg/kg        | 1.01E+01   | 2.78E-07         | 1.04E-06      | 1.79E-10          |
| 195         | 17        | Surface      | Thallium    | mg/kg        | 5.40E-01   | 1.48E-08         | 6.95E-08      | 9.54E-12          |
| 195         | 17        | Surface      | Total PAH   | mg/kg        | 3.16E-01   | 8.65E-09         | 1.06E-07      | 4.13E-10          |
| 492         | 1         | Surface      | Arsenic     | mg/kg        | 1.47E+01   | 4.03E-07         | 1.14E-06      | 2.60E-10          |
| 492         | 1         | Surface      | Beryllium   | mg/kg        | 1.04E+01   | 2.85E-07         | 1.87E-07      | 1.84E-10          |
| 492         | 1         | Surface      | Cadmium     | mg/kg        | 3.14E+00   | 8.60E-08         | 8.09E-09      | 5.55E-11          |
| 492         | 1         | Surface      | Chromium    | mg/kg        | 1.04E+03   | 2.85E-05         | 1.34E-04      | 1.84E-08          |
| 492         | 1         | Surface      | PCB, Total  | mg/kg        | 4.41E+01   | 1.21E-06         | 1.59E-05      | 1.31E-06          |
| 492         | 1         | Surface      | Uranium     | mg/kg        | 1.77E+03   | 4.85E-05         | 2.28E-04      | 3.13E-08          |
| 492         | 1         | Surface      | Vanadium    | mg/kg        | 4.32E+01   | 1.18E-06         | 2.89E-06      | 7.64E-10          |
| 493         | 1         | Surface      | Aluminum    | mg/kg        | 1.44E+04   | 3.95E-04         | 1.85E-03      | 2.55E-07          |
| 493         | 1         | Surface      | Barium      | mg/kg        | 4.04E+02   | 1.11E-05         | 5.20E-05      | 7.14E-09          |
| 493         | 1         | Surface      | Beryllium   | mg/kg        | 9.91E-01   | 2.72E-08         | 1.79E-08      | 1.75E-11          |
| 493         | 1         | Surface      | Chromium    | mg/kg        | 6.61E+01   | 1.81E-06         | 8.51E-06      | 1.17E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 493         | 1         | Surface      | Cobalt      | mg/kg        | 3.79E+01   | 1.04E-06         | 4.88E-06      | 6.70E-10          |
| 493         | 1         | Surface      | Manganese   | mg/kg        | 3.55E+03   | 9.73E-05         | 3.66E-04      | 6.27E-08          |
| 493         | 1         | Surface      | Mercury     | mg/kg        | 2.60E-01   | 7.12E-09         | 3.35E-08      | 1.37E-07          |
| 493         | 1         | Surface      | Nickel      | mg/kg        | 2.13E+02   | 5.84E-06         | 2.19E-05      | 3.76E-09          |
| 493         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 7.12E-09         | 9.37E-08      | 7.75E-09          |
| 493         | 1         | Surface      | Total PAH   | mg/kg        | 5.00E-01   | 1.37E-08         | 1.67E-07      | 6.53E-10          |
| 493         | 1         | Surface      | Vanadium    | mg/kg        | 4.05E+01   | 1.11E-06         | 2.71E-06      | 7.16E-10          |
| 517         | 1         | Surface      | Beryllium   | mg/kg        | 7.39E-01   | 2.02E-08         | 1.33E-08      | 1.31E-11          |
| 517         | 1         | Surface      | Chromium    | mg/kg        | 4.91E+01   | 1.35E-06         | 6.32E-06      | 8.68E-10          |
| 517         | 1         | Surface      | Nickel      | mg/kg        | 1.72E+02   | 4.71E-06         | 1.77E-05      | 3.04E-09          |
| 517         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 1.37E-08         | 1.80E-07      | 1.49E-08          |
| 541         | 1         | Surface      | Aluminum    | mg/kg        | 1.43E+04   | 3.91E-04         | 1.84E-03      | 2.53E-07          |
| 541         | 1         | Surface      | Barium      | mg/kg        | 1.28E+02   | 3.51E-06         | 1.65E-05      | 2.26E-09          |
| 541         | 1         | Surface      | Beryllium   | mg/kg        | 6.98E-01   | 1.91E-08         | 1.26E-08      | 1.23E-11          |
| 541         | 1         | Surface      | Cadmium     | mg/kg        | 1.68E+00   | 4.61E-08         | 4.33E-09      | 2.97E-11          |
| 541         | 1         | Surface      | Chromium    | mg/kg        | 8.24E+02   | 2.26E-05         | 1.06E-04      | 1.46E-08          |
| 541         | 1         | Surface      | Iron        | mg/kg        | 1.60E+04   | 4.37E-04         | 2.06E-03      | 2.82E-07          |
| 541         | 1         | Surface      | Mercury     | mg/kg        | 9.81E-02   | 2.69E-09         | 1.26E-08      | 5.17E-08          |
| 541         | 1         | Surface      | Naphthalene | mg/kg        | 6.55E-01   | 1.79E-08         | 4.22E-07      | 3.86E-07          |
| 541         | 1         | Surface      | Nickel      | mg/kg        | 1.52E+01   | 4.18E-07         | 1.57E-06      | 2.69E-10          |
| 541         | 1         | Surface      | PCB, Total  | mg/kg        | 6.06E+01   | 1.66E-06         | 2.19E-05      | 1.81E-06          |
| 541         | 1         | Surface      | Total PAH   | mg/kg        | 2.33E+00   | 6.38E-08         | 7.80E-07      | 3.04E-09          |
| 541         | 1         | Surface      | Uranium     | mg/kg        | 6.38E+03   | 1.75E-04         | 8.22E-04      | 1.13E-07          |
| 541         | 1         | Surface      | Vanadium    | mg/kg        | 3.04E+01   | 8.34E-07         | 2.04E-06      | 5.38E-10          |
| 561         | 1         | Surface      | Antimony    | mg/kg        | 9.36E-01   | 2.56E-08         | 1.21E-07      | 1.65E-11          |
| 561         | 1         | Surface      | Arsenic     | mg/kg        | 1.66E+01   | 4.53E-07         | 1.28E-06      | 2.93E-10          |
| 561         | 1         | Surface      | Barium      | mg/kg        | 1.40E+02   | 3.84E-06         | 1.81E-05      | 2.48E-09          |
| 561         | 1         | Surface      | Beryllium   | mg/kg        | 6.85E-01   | 1.88E-08         | 1.23E-08      | 1.21E-11          |
| 561         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 2.35E-06         | 1.10E-05      | 1.52E-09          |
| 561         | 1         | Surface      | Cobalt      | mg/kg        | 1.07E+01   | 2.93E-07         | 1.38E-06      | 1.89E-10          |
| 561         | 1         | Surface      | Iron        | mg/kg        | 2.05E+04   | 5.61E-04         | 2.64E-03      | 3.62E-07          |
| 561         | 1         | Surface      | Manganese   | mg/kg        | 1.61E+03   | 4.41E-05         | 1.66E-04      | 2.84E-08          |
| 561         | 1         | Surface      | PCB, Total  | mg/kg        | 1.04E+00   | 2.85E-08         | 3.76E-07      | 3.10E-08          |
| 561         | 1         | Surface      | Thallium    | mg/kg        | 3.33E-01   | 9.12E-09         | 4.29E-08      | 5.89E-12          |
| 561         | 1         | Surface      | Total PAH   | mg/kg        | 3.94E-01   | 1.08E-08         | 1.32E-07      | 5.15E-10          |
| 561         | 1         | Surface      | Uranium     | mg/kg        | 2.65E+02   | 7.25E-06         | 3.41E-05      | 4.68E-09          |
| 561         | 1         | Surface      | Vanadium    | mg/kg        | 3.76E+01   | 1.03E-06         | 2.52E-06      | 6.65E-10          |
| 561         | 2         | Surface      | Antimony    | mg/kg        | 5.33E+00   | 1.46E-07         | 6.87E-07      | 9.43E-11          |
| 561         | 2         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 3.56E-07         | 1.01E-06      | 2.30E-10          |
| 561         | 2         | Surface      | Beryllium   | mg/kg        | 6.34E-01   | 1.74E-08         | 1.14E-08      | 1.12E-11          |
| 561         | 2         | Surface      | Cadmium     | mg/kg        | 4.13E-01   | 1.13E-08         | 1.06E-09      | 7.30E-12          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 561         | 2         | Surface      | Chromium    | mg/kg        | 2.88E+02   | 7.90E-06         | 3.71E-05      | 5.09E-09          |
| 561         | 2         | Surface      | Cobalt      | mg/kg        | 1.14E+01   | 3.12E-07         | 1.47E-06      | 2.02E-10          |
| 561         | 2         | Surface      | Manganese   | mg/kg        | 1.12E+03   | 3.05E-05         | 1.15E-04      | 1.97E-08          |
| 561         | 2         | Surface      | PCB, Total  | mg/kg        | 1.64E+01   | 4.50E-07         | 5.92E-06      | 4.89E-07          |
| 561         | 2         | Surface      | Thallium    | mg/kg        | 4.09E-01   | 1.12E-08         | 5.27E-08      | 7.23E-12          |
| 561         | 2         | Surface      | Total PAH   | mg/kg        | 2.43E+00   | 6.66E-08         | 8.14E-07      | 3.18E-09          |
| 561         | 2         | Surface      | Uranium     | mg/kg        | 1.38E+03   | 3.79E-05         | 1.78E-04      | 2.44E-08          |
| 561         | 2         | Surface      | Vanadium    | mg/kg        | 3.46E+01   | 9.47E-07         | 2.31E-06      | 6.11E-10          |
| 562         | 1         | Surface      | Uranium     | mg/kg        | 8.73E+01   | 2.39E-06         | 1.12E-05      | 1.54E-09          |
| 562         | 2         | Surface      | PCB, Total  | mg/kg        | 1.58E+00   | 4.33E-08         | 5.70E-07      | 4.71E-08          |
| 562         | 3         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 1.05E-06         | 4.91E-06      | 6.75E-10          |
| 562         | 3         | Surface      | PCB, Total  | mg/kg        | 2.40E-01   | 6.58E-09         | 8.65E-08      | 7.15E-09          |
| 562         | 3         | Surface      | Total PAH   | mg/kg        | 2.20E-01   | 6.03E-09         | 7.37E-08      | 2.88E-10          |
| 562         | 3         | Surface      | Uranium     | mg/kg        | 5.89E+01   | 1.61E-06         | 7.58E-06      | 1.04E-09          |
| 562         | 4         | Surface      | Chromium    | mg/kg        | 4.67E+01   | 1.28E-06         | 6.01E-06      | 8.25E-10          |
| 562         | 4         | Surface      | Uranium     | mg/kg        | 2.10E+01   | 5.75E-07         | 2.70E-06      | 3.71E-10          |
| 562         | 5         | Surface      | Chromium    | mg/kg        | 1.53E+02   | 4.19E-06         | 1.97E-05      | 2.71E-09          |
| 562         | 5         | Surface      | PCB, Total  | mg/kg        | 9.50E-01   | 2.60E-08         | 3.43E-07      | 2.83E-08          |
| 562         | 5         | Surface      | Total PAH   | mg/kg        | 7.05E-02   | 1.93E-09         | 2.36E-08      | 9.21E-11          |
| 562         | 5         | Surface      | Uranium     | mg/kg        | 2.08E+02   | 5.70E-06         | 2.68E-05      | 3.68E-09          |
| 563         | 1         | Surface      | Cadmium     | mg/kg        | 8.96E-01   | 2.45E-08         | 2.31E-09      | 1.58E-11          |
| 563         | 1         | Surface      | Chromium    | mg/kg        | 2.85E+02   | 7.81E-06         | 3.67E-05      | 5.04E-09          |
| 563         | 1         | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 2.03E-08         | 2.67E-07      | 2.21E-08          |
| 563         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 4.13E-07         | 1.94E-06      | 2.67E-10          |
| 564         | 1         | Surface      | Arsenic     | mg/kg        | 4.30E+01   | 1.18E-06         | 3.32E-06      | 7.60E-10          |
| 564         | 1         | Surface      | Beryllium   | mg/kg        | 2.12E+00   | 5.81E-08         | 3.82E-08      | 3.75E-11          |
| 564         | 1         | Surface      | Cadmium     | mg/kg        | 1.96E+00   | 5.37E-08         | 5.05E-09      | 3.46E-11          |
| 564         | 1         | Surface      | Chromium    | mg/kg        | 7.49E+01   | 2.05E-06         | 9.65E-06      | 1.32E-09          |
| 564         | 1         | Surface      | Iron        | mg/kg        | 3.66E+04   | 1.00E-03         | 4.71E-03      | 6.47E-07          |
| 564         | 1         | Surface      | Mercury     | mg/kg        | 2.30E-01   | 6.30E-09         | 2.96E-08      | 1.21E-07          |
| 564         | 1         | Surface      | Nickel      | mg/kg        | 2.24E+01   | 6.14E-07         | 2.31E-06      | 3.96E-10          |
| 564         | 1         | Surface      | PCB, Total  | mg/kg        | 1.93E+00   | 5.29E-08         | 6.96E-07      | 5.75E-08          |
| 564         | 1         | Surface      | Thallium    | mg/kg        | 2.36E+00   | 6.47E-08         | 3.04E-07      | 4.17E-11          |
| 564         | 1         | Surface      | Uranium     | mg/kg        | 5.83E+01   | 1.60E-06         | 7.51E-06      | 1.03E-09          |
| 564         | 1         | Surface      | Vanadium    | mg/kg        | 8.06E+01   | 2.21E-06         | 5.40E-06      | 1.42E-09          |
| 567         | 3         | Surface      | Chromium    | mg/kg        | 3.79E+01   | 1.04E-06         | 4.88E-06      | 6.70E-10          |
| 567         | 4         | Surface      | Aluminum    | mg/kg        | 1.25E+04   | 3.43E-04         | 1.61E-03      | 2.21E-07          |
| 567         | 4         | Surface      | Chromium    | mg/kg        | 1.63E+01   | 4.47E-07         | 2.10E-06      | 2.88E-10          |
| 14          | 1         | Surface      | Arsenic     | mg/kg        | 1.10E+01   | 3.01E-07         | 8.48E-07      | 1.94E-10          |
| 14          | 1         | Surface      | Chromium    | mg/kg        | 6.36E+01   | 1.74E-06         | 8.19E-06      | 1.12E-09          |
| 14          | 1         | Surface      | Iron        | mg/kg        | 1.89E+04   | 5.17E-04         | 2.43E-03      | 3.33E-07          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 1         | Surface      | Nickel      | mg/kg        | 1.40E+02   | 3.83E-06         | 1.44E-05      | 2.47E-09          |
| 14          | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 1.37E-08         | 1.80E-07      | 1.49E-08          |
| 14          | 1         | Surface      | Silver      | mg/kg        | 1.67E+01   | 4.57E-07         | 1.72E-06      | 2.95E-10          |
| 14          | 1         | Surface      | Uranium     | mg/kg        | 7.21E+01   | 1.98E-06         | 9.29E-06      | 1.28E-09          |
| 14          | 2         | Surface      | Antimony    | mg/kg        | 3.70E+00   | 1.01E-07         | 4.76E-07      | 6.54E-11          |
| 14          | 2         | Surface      | Arsenic     | mg/kg        | 1.45E+01   | 3.98E-07         | 1.12E-06      | 2.57E-10          |
| 14          | 2         | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 1.95E-08         | 1.28E-08      | 1.25E-11          |
| 14          | 2         | Surface      | Chromium    | mg/kg        | 6.65E+01   | 1.82E-06         | 8.57E-06      | 1.18E-09          |
| 14          | 2         | Surface      | Copper      | mg/kg        | 1.76E+02   | 4.83E-06         | 2.27E-05      | 3.12E-09          |
| 14          | 2         | Surface      | Iron        | mg/kg        | 3.72E+04   | 1.02E-03         | 4.79E-03      | 6.57E-07          |
| 14          | 2         | Surface      | Manganese   | mg/kg        | 1.44E+03   | 3.95E-05         | 1.49E-04      | 2.55E-08          |
| 14          | 2         | Surface      | Mercury     | mg/kg        | 2.67E-01   | 7.32E-09         | 3.44E-08      | 1.41E-07          |
| 14          | 2         | Surface      | Nickel      | mg/kg        | 6.78E+02   | 1.86E-05         | 6.98E-05      | 1.20E-08          |
| 14          | 2         | Surface      | PCB, Total  | mg/kg        | 3.90E-01   | 1.07E-08         | 1.41E-07      | 1.16E-08          |
| 14          | 2         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 9.26E-09         | 1.13E-07      | 4.42E-10          |
| 14          | 2         | Surface      | Uranium     | mg/kg        | 2.93E+02   | 8.04E-06         | 3.78E-05      | 5.18E-09          |
| 14          | 3         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 3.55E-07         | 1.00E-06      | 2.29E-10          |
| 14          | 3         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 1.92E-06         | 9.03E-06      | 1.24E-09          |
| 14          | 3         | Surface      | Copper      | mg/kg        | 1.29E+02   | 3.54E-06         | 1.66E-05      | 2.29E-09          |
| 14          | 3         | Surface      | Iron        | mg/kg        | 3.48E+04   | 9.54E-04         | 4.48E-03      | 6.16E-07          |
| 14          | 3         | Surface      | Manganese   | mg/kg        | 1.06E+03   | 2.90E-05         | 1.09E-04      | 1.87E-08          |
| 14          | 3         | Surface      | Mercury     | mg/kg        | 7.48E+00   | 2.05E-07         | 9.63E-07      | 3.94E-06          |
| 14          | 3         | Surface      | Molybdenum  | mg/kg        | 2.21E+01   | 6.05E-07         | 2.84E-06      | 3.90E-10          |
| 14          | 3         | Surface      | Nickel      | mg/kg        | 5.76E+02   | 1.58E-05         | 5.94E-05      | 1.02E-08          |
| 14          | 3         | Surface      | PCB, Total  | mg/kg        | 8.65E+00   | 2.37E-07         | 3.12E-06      | 2.58E-07          |
| 14          | 3         | Surface      | Uranium     | mg/kg        | 2.18E+02   | 5.96E-06         | 2.80E-05      | 3.85E-09          |
| 14          | 4         | Surface      | Antimony    | mg/kg        | 4.30E+00   | 1.18E-07         | 5.54E-07      | 7.60E-11          |
| 14          | 4         | Surface      | Arsenic     | mg/kg        | 1.33E+01   | 3.64E-07         | 1.03E-06      | 2.35E-10          |
| 14          | 4         | Surface      | Chromium    | mg/kg        | 7.20E+01   | 1.97E-06         | 9.28E-06      | 1.27E-09          |
| 14          | 4         | Surface      | Copper      | mg/kg        | 3.54E+02   | 9.68E-06         | 4.55E-05      | 6.25E-09          |
| 14          | 4         | Surface      | Iron        | mg/kg        | 3.88E+04   | 1.06E-03         | 5.00E-03      | 6.87E-07          |
| 14          | 4         | Surface      | Mercury     | mg/kg        | 4.87E-01   | 1.33E-08         | 6.27E-08      | 2.57E-07          |
| 14          | 4         | Surface      | Nickel      | mg/kg        | 7.31E+02   | 2.00E-05         | 7.53E-05      | 1.29E-08          |
| 14          | 4         | Surface      | PCB, Total  | mg/kg        | 6.61E+00   | 1.81E-07         | 2.38E-06      | 1.97E-07          |
| 14          | 4         | Surface      | Silver      | mg/kg        | 1.17E+01   | 3.21E-07         | 1.21E-06      | 2.07E-10          |
| 14          | 4         | Surface      | Total PAH   | mg/kg        | 2.51E-01   | 6.87E-09         | 8.40E-08      | 3.28E-10          |
| 14          | 4         | Surface      | Uranium     | mg/kg        | 3.72E+02   | 1.02E-05         | 4.79E-05      | 6.57E-09          |
| 14          | 5         | Surface      | Antimony    | mg/kg        | 2.30E+00   | 6.30E-08         | 2.96E-07      | 4.07E-11          |
| 14          | 5         | Surface      | Arsenic     | mg/kg        | 1.31E+01   | 3.58E-07         | 1.01E-06      | 2.31E-10          |
| 14          | 5         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 1.07E-07         | 1.00E-08      | 6.89E-11          |
| 14          | 5         | Surface      | Chromium    | mg/kg        | 4.70E+01   | 1.29E-06         | 6.05E-06      | 8.30E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 5         | Surface      | Cobalt      | mg/kg        | 1.40E+01   | 3.84E-07         | 1.80E-06      | 2.47E-10          |
| 14          | 5         | Surface      | Copper      | mg/kg        | 1.34E+02   | 3.66E-06         | 1.72E-05      | 2.36E-09          |
| 14          | 5         | Surface      | Iron        | mg/kg        | 3.92E+04   | 1.07E-03         | 5.05E-03      | 6.93E-07          |
| 14          | 5         | Surface      | Manganese   | mg/kg        | 8.28E+02   | 2.27E-05         | 8.53E-05      | 1.46E-08          |
| 14          | 5         | Surface      | Mercury     | mg/kg        | 1.09E+01   | 3.00E-07         | 1.41E-06      | 5.76E-06          |
| 14          | 5         | Surface      | Nickel      | mg/kg        | 4.61E+02   | 1.26E-05         | 4.75E-05      | 8.15E-09          |
| 14          | 5         | Surface      | PCB, Total  | mg/kg        | 1.00E+00   | 2.74E-08         | 3.61E-07      | 2.98E-08          |
| 14          | 5         | Surface      | Silver      | mg/kg        | 1.29E+01   | 3.53E-07         | 1.33E-06      | 2.27E-10          |
| 14          | 5         | Surface      | Thallium    | mg/kg        | 4.10E-01   | 1.12E-08         | 5.28E-08      | 7.25E-12          |
| 14          | 5         | Surface      | Total PAH   | mg/kg        | 1.21E-01   | 3.31E-09         | 4.05E-08      | 1.58E-10          |
| 14          | 5         | Surface      | Uranium     | mg/kg        | 2.62E+02   | 7.18E-06         | 3.38E-05      | 4.63E-09          |
| 14          | 6         | Surface      | Antimony    | mg/kg        | 2.70E+00   | 7.40E-08         | 3.48E-07      | 4.77E-11          |
| 14          | 6         | Surface      | Cadmium     | mg/kg        | 8.40E-01   | 2.30E-08         | 2.16E-09      | 1.48E-11          |
| 14          | 6         | Surface      | Chromium    | mg/kg        | 4.46E+02   | 1.22E-05         | 5.74E-05      | 7.88E-09          |
| 14          | 6         | Surface      | Copper      | mg/kg        | 1.22E+02   | 3.35E-06         | 1.57E-05      | 2.16E-09          |
| 14          | 6         | Surface      | Mercury     | mg/kg        | 3.47E-01   | 9.51E-09         | 4.47E-08      | 1.83E-07          |
| 14          | 6         | Surface      | Nickel      | mg/kg        | 9.63E+02   | 2.64E-05         | 9.92E-05      | 1.70E-08          |
| 14          | 6         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 1.37E-07         | 1.80E-06      | 1.49E-07          |
| 14          | 6         | Surface      | Silver      | mg/kg        | 1.19E+01   | 3.25E-07         | 1.22E-06      | 2.10E-10          |
| 14          | 6         | Surface      | Uranium     | mg/kg        | 5.79E+02   | 1.59E-05         | 7.45E-05      | 1.02E-08          |
| 14          | 7         | Surface      | Antimony    | mg/kg        | 7.50E-01   | 2.05E-08         | 9.66E-08      | 1.33E-11          |
| 14          | 7         | Surface      | Arsenic     | mg/kg        | 1.13E+01   | 3.10E-07         | 8.73E-07      | 2.00E-10          |
| 14          | 7         | Surface      | Cadmium     | mg/kg        | 2.70E+00   | 7.40E-08         | 6.95E-09      | 4.77E-11          |
| 14          | 7         | Surface      | Chromium    | mg/kg        | 6.46E+01   | 1.77E-06         | 8.31E-06      | 1.14E-09          |
| 14          | 7         | Surface      | Mercury     | mg/kg        | 7.82E+00   | 2.14E-07         | 1.01E-06      | 4.12E-06          |
| 14          | 7         | Surface      | Nickel      | mg/kg        | 1.22E+03   | 3.35E-05         | 1.26E-04      | 2.16E-08          |
| 14          | 7         | Surface      | PCB, Total  | mg/kg        | 7.60E+00   | 2.08E-07         | 2.74E-06      | 2.27E-07          |
| 14          | 7         | Surface      | Total PAH   | mg/kg        | 6.31E-02   | 1.73E-09         | 2.11E-08      | 8.25E-11          |
| 14          | 7         | Surface      | Uranium     | mg/kg        | 3.33E+02   | 9.12E-06         | 4.29E-05      | 5.88E-09          |
| 14          | 8         | Surface      | Antimony    | mg/kg        | 6.10E-01   | 1.67E-08         | 7.85E-08      | 1.08E-11          |
| 14          | 8         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 3.12E-07         | 8.79E-07      | 2.01E-10          |
| 14          | 8         | Surface      | Chromium    | mg/kg        | 4.60E+01   | 1.26E-06         | 5.93E-06      | 8.14E-10          |
| 14          | 8         | Surface      | Mercury     | mg/kg        | 7.90E+00   | 2.16E-07         | 1.02E-06      | 4.16E-06          |
| 14          | 8         | Surface      | Nickel      | mg/kg        | 6.73E+02   | 1.84E-05         | 6.93E-05      | 1.19E-08          |
| 14          | 8         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 1.37E-07         | 1.80E-06      | 1.49E-07          |
| 14          | 8         | Surface      | Silver      | mg/kg        | 9.63E+00   | 2.64E-07         | 9.92E-07      | 1.70E-10          |
| 14          | 8         | Surface      | Total PAH   | mg/kg        | 6.28E-02   | 1.72E-09         | 2.10E-08      | 8.20E-11          |
| 14          | 8         | Surface      | Uranium     | mg/kg        | 3.35E+02   | 9.19E-06         | 4.32E-05      | 5.93E-09          |
| 14          | 9         | Surface      | Antimony    | mg/kg        | 2.00E+00   | 5.48E-08         | 2.58E-07      | 3.54E-11          |
| 14          | 9         | Surface      | Arsenic     | mg/kg        | 1.40E+01   | 3.85E-07         | 1.08E-06      | 2.48E-10          |
| 14          | 9         | Surface      | Cadmium     | mg/kg        | 9.40E-01   | 2.58E-08         | 2.42E-09      | 1.66E-11          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 9         | Surface      | Chromium    | mg/kg        | 4.64E+01   | 1.27E-06         | 5.98E-06      | 8.21E-10          |
| 14          | 9         | Surface      | Mercury     | mg/kg        | 1.13E+00   | 3.10E-08         | 1.46E-07      | 5.95E-07          |
| 14          | 9         | Surface      | Nickel      | mg/kg        | 9.43E+02   | 2.58E-05         | 9.72E-05      | 1.67E-08          |
| 14          | 9         | Surface      | PCB, Total  | mg/kg        | 6.84E+00   | 1.87E-07         | 2.47E-06      | 2.04E-07          |
| 14          | 9         | Surface      | Total PAH   | mg/kg        | 4.87E-01   | 1.34E-08         | 1.63E-07      | 6.37E-10          |
| 14          | 9         | Surface      | Uranium     | mg/kg        | 1.46E+03   | 4.01E-05         | 1.89E-04      | 2.59E-08          |
| 14          | 10        | Surface      | Antimony    | mg/kg        | 9.40E-01   | 2.58E-08         | 1.21E-07      | 1.66E-11          |
| 14          | 10        | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 3.08E-07         | 8.68E-07      | 1.99E-10          |
| 14          | 10        | Surface      | Chromium    | mg/kg        | 4.19E+01   | 1.15E-06         | 5.39E-06      | 7.40E-10          |
| 14          | 10        | Surface      | Copper      | mg/kg        | 1.41E+02   | 3.87E-06         | 1.82E-05      | 2.50E-09          |
| 14          | 10        | Surface      | Iron        | mg/kg        | 2.75E+04   | 7.52E-04         | 3.53E-03      | 4.85E-07          |
| 14          | 10        | Surface      | Mercury     | mg/kg        | 2.51E+01   | 6.87E-07         | 3.23E-06      | 1.32E-05          |
| 14          | 10        | Surface      | Nickel      | mg/kg        | 6.00E+02   | 1.64E-05         | 6.18E-05      | 1.06E-08          |
| 14          | 10        | Surface      | PCB, Total  | mg/kg        | 9.38E+00   | 2.57E-07         | 3.38E-06      | 2.80E-07          |
| 14          | 10        | Surface      | Total PAH   | mg/kg        | 2.72E-01   | 7.44E-09         | 9.09E-08      | 3.55E-10          |
| 14          | 10        | Surface      | Uranium     | mg/kg        | 2.88E+02   | 7.90E-06         | 3.71E-05      | 5.10E-09          |
| 518         | 1         | Surface      | Carbazole   | mg/kg        | 1.17E+01   | 3.21E-07         | 3.02E-06      | 9.61E-08          |
| 518         | 1         | Surface      | Cobalt      | mg/kg        | 6.80E+00   | 1.86E-07         | 8.76E-07      | 1.20E-10          |
| 518         | 1         | Surface      | Nickel      | mg/kg        | 1.29E+01   | 3.52E-07         | 1.32E-06      | 2.27E-10          |
| 518         | 1         | Surface      | PCB, Total  | mg/kg        | 6.30E-01   | 1.73E-08         | 2.27E-07      | 1.88E-08          |
| 518         | 1         | Surface      | Pyrene      | mg/kg        | 3.94E+01   | 1.08E-06         | 1.32E-05      | 4.58E-07          |
| 518         | 1         | Surface      | Total PAH   | mg/kg        | 3.90E+01   | 1.07E-06         | 1.30E-05      | 5.09E-08          |
| 518         | 1         | Surface      | Uranium     | mg/kg        | 2.17E+02   | 5.95E-06         | 2.79E-05      | 3.84E-09          |
| 520         | 1         | Surface      | Chromium    | mg/kg        | 3.17E+01   | 8.69E-07         | 4.09E-06      | 5.61E-10          |
| 520         | 1         | Surface      | Iron        | mg/kg        | 1.56E+04   | 4.27E-04         | 2.01E-03      | 2.76E-07          |
| 520         | 1         | Surface      | Mercury     | mg/kg        | 1.07E+01   | 2.93E-07         | 1.38E-06      | 5.63E-06          |
| 520         | 1         | Surface      | Nickel      | mg/kg        | 2.60E+02   | 7.13E-06         | 2.68E-05      | 4.60E-09          |
| 520         | 1         | Surface      | Silver      | mg/kg        | 1.30E+01   | 3.55E-07         | 1.34E-06      | 2.29E-10          |
| 520         | 1         | Surface      | Total PAH   | mg/kg        | 3.18E-02   | 8.72E-10         | 1.07E-08      | 4.16E-11          |
| 520         | 1         | Surface      | Uranium     | mg/kg        | 2.29E+01   | 6.28E-07         | 2.95E-06      | 4.05E-10          |
| 520         | 2         | Surface      | Beryllium   | mg/kg        | 5.79E-01   | 1.59E-08         | 1.04E-08      | 1.02E-11          |
| 520         | 2         | Surface      | Chromium    | mg/kg        | 6.67E+01   | 1.83E-06         | 8.58E-06      | 1.18E-09          |
| 520         | 2         | Surface      | Manganese   | mg/kg        | 5.89E+02   | 1.61E-05         | 6.07E-05      | 1.04E-08          |
| 520         | 2         | Surface      | Mercury     | mg/kg        | 1.19E+01   | 3.25E-07         | 1.53E-06      | 6.26E-06          |
| 520         | 2         | Surface      | Nickel      | mg/kg        | 3.11E+02   | 8.51E-06         | 3.20E-05      | 5.49E-09          |
| 520         | 2         | Surface      | Total PAH   | mg/kg        | 3.17E-01   | 8.68E-09         | 1.06E-07      | 4.14E-10          |
| 520         | 2         | Surface      | Uranium     | mg/kg        | 3.96E+01   | 1.08E-06         | 5.09E-06      | 6.99E-10          |
| 520         | 3         | Surface      | Chromium    | mg/kg        | 3.97E+01   | 1.09E-06         | 5.11E-06      | 7.01E-10          |
| 520         | 3         | Surface      | Copper      | mg/kg        | 1.19E+02   | 3.26E-06         | 1.53E-05      | 2.10E-09          |
| 520         | 3         | Surface      | Nickel      | mg/kg        | 2.65E+02   | 7.25E-06         | 2.73E-05      | 4.68E-09          |
| 520         | 3         | Surface      | Silver      | mg/kg        | 1.27E+01   | 3.47E-07         | 1.31E-06      | 2.24E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.9. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 520         | 3         | Surface      | Total PAH   | mg/kg        | 1.18E-01   | 3.24E-09         | 3.95E-08      | 1.54E-10          |
| 520         | 3         | Surface      | Uranium     | mg/kg        | 1.92E+01   | 5.27E-07         | 2.48E-06      | 3.40E-10          |
| 520         | 4         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 1.05E-06         | 4.92E-06      | 6.76E-10          |
| 520         | 4         | Surface      | Copper      | mg/kg        | 1.11E+02   | 3.03E-06         | 1.42E-05      | 1.95E-09          |
| 520         | 4         | Surface      | Mercury     | mg/kg        | 9.69E+00   | 2.65E-07         | 1.25E-06      | 5.11E-06          |
| 520         | 4         | Surface      | Nickel      | mg/kg        | 2.82E+02   | 7.72E-06         | 2.90E-05      | 4.98E-09          |
| 520         | 4         | Surface      | Silver      | mg/kg        | 1.04E+01   | 2.86E-07         | 1.08E-06      | 1.85E-10          |
| 520         | 4         | Surface      | Total PAH   | mg/kg        | 5.52E-01   | 1.51E-08         | 1.85E-07      | 7.22E-10          |
| 520         | 4         | Surface      | Uranium     | mg/kg        | 2.40E+01   | 6.58E-07         | 3.09E-06      | 4.25E-10          |
| 520         | 5         | Surface      | Antimony    | mg/kg        | 9.60E-01   | 2.63E-08         | 1.24E-07      | 1.70E-11          |
| 520         | 5         | Surface      | Chromium    | mg/kg        | 3.68E+01   | 1.01E-06         | 4.74E-06      | 6.51E-10          |
| 520         | 5         | Surface      | Nickel      | mg/kg        | 1.47E+02   | 4.02E-06         | 1.51E-05      | 2.60E-09          |
| 520         | 5         | Surface      | Total PAH   | mg/kg        | 3.87E-01   | 1.06E-08         | 1.30E-07      | 5.06E-10          |
| 81          | 1         | Surface      | Aluminum    | mg/kg        | 9.57E+03   | 2.62E-04         | 1.23E-03      | 1.69E-07          |
| 81          | 1         | Surface      | Arsenic     | mg/kg        | 1.03E+01   | 2.81E-07         | 7.92E-07      | 1.81E-10          |
| 81          | 1         | Surface      | Beryllium   | mg/kg        | 7.57E-01   | 2.07E-08         | 1.36E-08      | 1.34E-11          |
| 81          | 1         | Surface      | Chromium    | mg/kg        | 8.62E+01   | 2.36E-06         | 1.11E-05      | 1.52E-09          |
| 81          | 1         | Surface      | Mercury     | mg/kg        | 8.33E+00   | 2.28E-07         | 1.07E-06      | 4.39E-06          |
| 81          | 1         | Surface      | Nickel      | mg/kg        | 7.29E+01   | 2.00E-06         | 7.51E-06      | 1.29E-09          |
| 81          | 1         | Surface      | PCB, Total  | mg/kg        | 1.60E+02   | 4.38E-06         | 5.76E-05      | 4.76E-06          |
| 81          | 1         | Surface      | Silver      | mg/kg        | 2.70E+00   | 7.40E-08         | 2.78E-07      | 4.77E-11          |
| 81          | 1         | Surface      | Total PAH   | mg/kg        | 5.53E-01   | 1.52E-08         | 1.85E-07      | 7.23E-10          |
| 81          | 1         | Surface      | Uranium     | mg/kg        | 6.50E+03   | 1.78E-04         | 8.37E-04      | 1.15E-07          |
| 153         | 1         | Surface      | PCB, Total  | mg/kg        | 5.09E-01   | 1.39E-08         | 1.84E-07      | 1.52E-08          |
| 153         | 1         | Surface      | Total PAH   | mg/kg        | 8.69E-02   | 2.38E-09         | 2.91E-08      | 1.14E-10          |
| 156         | 1         | Surface      | Chromium    | mg/kg        | 4.90E+01   | 1.34E-06         | 6.31E-06      | 8.67E-10          |
| 156         | 1         | Surface      | Manganese   | mg/kg        | 2.83E+03   | 7.76E-05         | 2.92E-04      | 5.01E-08          |
| 156         | 1         | Surface      | Mercury     | mg/kg        | 9.87E+00   | 2.70E-07         | 1.27E-06      | 5.20E-06          |
| 156         | 1         | Surface      | Nickel      | mg/kg        | 6.16E+01   | 1.69E-06         | 6.35E-06      | 1.09E-09          |
| 156         | 1         | Surface      | PCB, Total  | mg/kg        | 3.00E-01   | 8.22E-09         | 1.08E-07      | 8.94E-09          |
| 156         | 1         | Surface      | Total PAH   | mg/kg        | 8.26E-02   | 2.26E-09         | 2.77E-08      | 1.08E-10          |
| 156         | 1         | Surface      | Uranium     | mg/kg        | 2.32E+01   | 6.35E-07         | 2.99E-06      | 4.10E-10          |
| 160         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 1.86E-08         | 8.76E-08      | 1.20E-11          |
| 160         | 1         | Surface      | Total PAH   | mg/kg        | 5.29E-02   | 1.45E-09         | 1.77E-08      | 6.91E-11          |
| 163         | 1         | Surface      | Chromium    | mg/kg        | 4.94E+01   | 1.35E-06         | 6.37E-06      | 8.74E-10          |
| 163         | 1         | Surface      | Total PAH   | mg/kg        | 1.63E-01   | 4.47E-09         | 5.46E-08      | 2.13E-10          |
| 219         | 1         | Surface      | Nickel      | mg/kg        | 6.71E+01   | 1.84E-06         | 6.92E-06      | 1.19E-09          |
| 219         | 1         | Surface      | Total PAH   | mg/kg        | 7.50E-02   | 2.06E-09         | 2.51E-08      | 9.81E-11          |
| 488         | 1         | Surface      | PCB, Total  | mg/kg        | 1.03E+01   | 2.82E-07         | 3.71E-06      | 3.07E-07          |
| 488         | 1         | Surface      | Total PAH   | mg/kg        | 2.50E-01   | 6.84E-09         | 8.36E-08      | 3.26E-10          |
| 488         | 1         | Surface      | Uranium     | mg/kg        | 1.48E+01   | 4.05E-07         | 1.91E-06      | 2.62E-10          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 1    | 1  | Surface | Beryllium         | mg/kg | 3.89E+00 | 3.81E-08  | 2.51E-08 | 2.46E-11   |                   |
| 1    | 1  | Surface | Cadmium           | mg/kg | 1.10E+00 | 1.08E-08  | 1.01E-09 | 6.94E-12   |                   |
| 1    | 1  | Surface | Chromium          | mg/kg | 1.28E+01 | 1.25E-07  | 5.90E-07 | 8.09E-11   |                   |
| 1    | 1  | Surface | PCB, Total        | mg/kg | 1.76E-01 | 1.72E-09  | 2.27E-08 | 1.87E-09   |                   |
| 1    | 1  | Surface | Cesium-137        | pCi/g | 5.91E-01 | 1.03E+01  |          | 6.67E-03   | 1.51E-01          |
| 1    | 1  | Surface | Neptunium-237     | pCi/g | 4.02E-01 | 7.04E+00  |          | 4.54E-03   | 1.03E-01          |
| 1    | 1  | Surface | Plutonium-239/240 | pCi/g | 6.14E+00 | 1.07E+02  |          | 6.93E-02   | 1.57E+00          |
| 1    | 1  | Surface | Thorium-230       | pCi/g | 4.40E+01 | 7.70E+02  |          | 4.97E-01   | 1.13E+01          |
| 1    | 1  | Surface | Uranium-235       | pCi/g | 1.06E-01 | 1.86E+00  |          | 1.20E-03   | 2.71E-02          |
| 1    | 1  | Surface | Uranium-238       | pCi/g | 1.97E+00 | 3.45E+01  |          | 2.23E-02   | 5.05E-01          |
| 1    | 2  | Surface | Beryllium         | mg/kg | 8.23E+00 | 8.05E-08  | 5.30E-08 | 5.19E-11   |                   |
| 1    | 2  | Surface | Cadmium           | mg/kg | 6.46E+00 | 6.32E-08  | 5.94E-09 | 4.08E-11   |                   |
| 1    | 2  | Surface | Chromium          | mg/kg | 2.01E+02 | 1.97E-06  | 9.25E-06 | 1.27E-09   |                   |
| 1    | 2  | Surface | Copper            | mg/kg | 1.81E+02 | 1.77E-06  | 8.32E-06 | 1.14E-09   |                   |
| 1    | 2  | Surface | Mercury           | mg/kg | 5.94E+00 | 5.81E-08  | 2.73E-07 | 1.12E-06   |                   |
| 1    | 2  | Surface | Nickel            | mg/kg | 5.75E+01 | 5.62E-07  | 2.11E-06 | 3.63E-10   |                   |
| 1    | 2  | Surface | PCB, Total        | mg/kg | 3.21E+01 | 3.14E-07  | 4.13E-06 | 3.42E-07   |                   |
| 1    | 2  | Surface | Silver            | mg/kg | 3.31E+01 | 3.24E-07  | 1.22E-06 | 2.09E-10   |                   |
| 1    | 2  | Surface | Thallium          | mg/kg | 3.70E-01 | 3.62E-09  | 1.70E-08 | 2.34E-12   |                   |
| 1    | 2  | Surface | Vanadium          | mg/kg | 3.49E+01 | 3.41E-07  | 8.34E-07 | 2.20E-10   |                   |
| 1    | 3  | Surface | Chromium          | mg/kg | 1.45E+01 | 1.42E-07  | 6.65E-07 | 9.13E-11   |                   |
| 1    | 3  | Surface | PCB, Total        | mg/kg | 2.17E-01 | 2.12E-09  | 2.79E-08 | 2.31E-09   |                   |
| 1    | 3  | Surface | Uranium-238       | pCi/g | 1.73E+00 | 3.03E+01  |          | 1.95E-02   | 4.42E-01          |
| 1    | 4  | Surface | Beryllium         | mg/kg | 7.25E-01 | 7.09E-09  | 4.67E-09 | 4.58E-12   |                   |
| 1    | 4  | Surface | Chromium          | mg/kg | 9.30E+01 | 9.10E-07  | 4.28E-06 | 5.87E-10   |                   |
| 1    | 4  | Surface | Nickel            | mg/kg | 4.69E+01 | 4.59E-07  | 1.72E-06 | 2.96E-10   |                   |
| 1    | 4  | Surface | PCB, Total        | mg/kg | 1.30E-01 | 1.27E-09  | 1.67E-08 | 1.38E-09   |                   |
| 1    | 4  | Surface | Cobalt-60         | pCi/g | 2.20E-02 | 3.85E-01  |          | 2.48E-04   | 5.63E-03          |
| 1    | 4  | Surface | Thorium-230       | pCi/g | 5.03E+00 | 8.80E+01  |          | 5.68E-02   | 1.29E+00          |
| 1    | 5  | Surface | Beryllium         | mg/kg | 8.30E+00 | 8.12E-08  | 5.34E-08 | 5.24E-11   |                   |
| 1    | 5  | Surface | Cadmium           | mg/kg | 1.20E+00 | 1.17E-08  | 1.10E-09 | 7.58E-12   |                   |
| 1    | 5  | Surface | Nickel            | mg/kg | 4.07E+01 | 3.98E-07  | 1.50E-06 | 2.57E-10   |                   |
| 1    | 5  | Surface | PCB, Total        | mg/kg | 2.70E-01 | 2.64E-09  | 3.48E-08 | 2.87E-09   |                   |
| 1    | 5  | Surface | Total PAH         | mg/kg | 9.83E-02 | 9.62E-10  | 1.18E-08 | 4.59E-11   |                   |
| 99   | 1  | Surface | Chromium          | mg/kg | 5.51E+01 | 5.39E-07  | 2.53E-06 | 3.48E-10   |                   |
| 99   | 1  | Surface | Mercury           | mg/kg | 9.53E+00 | 9.32E-08  | 4.38E-07 | 1.79E-06   |                   |
| 99   | 1  | Surface | Nickel            | mg/kg | 7.02E+01 | 6.87E-07  | 2.58E-06 | 4.43E-10   |                   |
| 99   | 1  | Surface | Silver            | mg/kg | 1.03E+01 | 1.01E-07  | 3.79E-07 | 6.50E-11   |                   |
| 99   | 1  | Surface | Cobalt-60         | pCi/g | 1.19E-02 | 2.08E-01  |          | 1.34E-04   | 3.04E-03          |
| 99   | 1  | Surface | Uranium-238       | pCi/g | 9.45E-01 | 1.65E+01  |          | 1.07E-02   | 2.42E-01          |
| 194  | 1  | Surface | Antimony          | mg/kg | 1.50E+00 | 1.47E-08  | 6.90E-08 | 9.47E-12   |                   |
| 194  | 1  | Surface | Chromium          | mg/kg | 3.87E+01 | 3.79E-07  | 1.78E-06 | 2.44E-10   |                   |
| 194  | 1  | Surface | Mercury           | mg/kg | 6.71E+00 | 6.57E-08  | 3.09E-07 | 1.26E-06   |                   |
| 194  | 1  | Surface | Nickel            | mg/kg | 5.84E+01 | 5.72E-07  | 2.15E-06 | 3.69E-10   |                   |
| 194  | 1  | Surface | Silver            | mg/kg | 1.09E+01 | 1.07E-07  | 4.02E-07 | 6.90E-11   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 2  | Surface | Chromium    | mg/kg | 5.96E+01 | 5.83E-07  | 2.74E-06 | 3.76E-10   |                   |
| 194  | 2  | Surface | Silver      | mg/kg | 1.31E+01 | 1.28E-07  | 4.83E-07 | 8.29E-11   |                   |
| 194  | 2  | Surface | Uranium     | mg/kg | 2.28E+01 | 2.23E-07  | 1.05E-06 | 1.44E-10   |                   |
| 194  | 2  | Surface | Uranium-238 | pCi/g | 1.42E+00 | 2.49E+01  |          | 1.60E-02   | 3.63E-01          |
| 194  | 3  | Surface | Antimony    | mg/kg | 6.90E-01 | 6.75E-09  | 3.17E-08 | 4.36E-12   |                   |
| 194  | 3  | Surface | Arsenic     | mg/kg | 1.46E+01 | 1.43E-07  | 4.04E-07 | 9.24E-11   |                   |
| 194  | 3  | Surface | Chromium    | mg/kg | 3.90E+01 | 3.81E-07  | 1.79E-06 | 2.46E-10   |                   |
| 194  | 3  | Surface | Nickel      | mg/kg | 6.40E+01 | 6.27E-07  | 2.36E-06 | 4.04E-10   |                   |
| 194  | 3  | Surface | Total PAH   | mg/kg | 3.93E-02 | 3.85E-10  | 4.70E-09 | 1.83E-11   |                   |
| 194  | 3  | Surface | Uranium-238 | pCi/g | 1.28E+00 | 2.25E+01  |          | 1.45E-02   | 3.28E-01          |
| 194  | 4  | Surface | Chromium    | mg/kg | 4.84E+01 | 4.74E-07  | 2.23E-06 | 3.06E-10   |                   |
| 194  | 4  | Surface | Mercury     | mg/kg | 8.92E+00 | 8.73E-08  | 4.10E-07 | 1.68E-06   |                   |
| 194  | 4  | Surface | Nickel      | mg/kg | 6.91E+01 | 6.76E-07  | 2.54E-06 | 4.36E-10   |                   |
| 194  | 4  | Surface | Silver      | mg/kg | 1.18E+01 | 1.15E-07  | 4.33E-07 | 7.44E-11   |                   |
| 194  | 4  | Surface | Total PAH   | mg/kg | 7.30E-02 | 7.14E-10  | 8.72E-09 | 3.41E-11   |                   |
| 194  | 4  | Surface | Uranium-238 | pCi/g | 1.73E+00 | 3.03E+01  |          | 1.95E-02   | 4.42E-01          |
| 194  | 5  | Surface | Chromium    | mg/kg | 4.58E+01 | 4.48E-07  | 2.11E-06 | 2.89E-10   |                   |
| 194  | 5  | Surface | Mercury     | mg/kg | 8.69E+00 | 8.50E-08  | 4.00E-07 | 1.64E-06   |                   |
| 194  | 5  | Surface | Nickel      | mg/kg | 7.54E+01 | 7.38E-07  | 2.78E-06 | 4.76E-10   |                   |
| 194  | 5  | Surface | Silver      | mg/kg | 1.25E+01 | 1.22E-07  | 4.58E-07 | 7.86E-11   |                   |
| 194  | 5  | Surface | Total PAH   | mg/kg | 2.37E-02 | 2.32E-10  | 2.83E-09 | 1.11E-11   |                   |
| 194  | 5  | Surface | Uranium-238 | pCi/g | 1.38E+00 | 2.42E+01  |          | 1.56E-02   | 3.53E-01          |
| 194  | 6  | Surface | Chromium    | mg/kg | 3.70E+01 | 3.62E-07  | 1.70E-06 | 2.34E-10   |                   |
| 194  | 6  | Surface | Manganese   | mg/kg | 1.08E+03 | 1.06E-05  | 3.97E-05 | 6.82E-09   |                   |
| 194  | 6  | Surface | Nickel      | mg/kg | 8.06E+01 | 7.89E-07  | 2.97E-06 | 5.09E-10   |                   |
| 194  | 6  | Surface | Silver      | mg/kg | 9.89E+00 | 9.68E-08  | 3.64E-07 | 6.24E-11   |                   |
| 194  | 6  | Surface | Uranium-238 | pCi/g | 1.32E+00 | 2.31E+01  |          | 1.49E-02   | 3.38E-01          |
| 194  | 7  | Surface | Chromium    | mg/kg | 5.32E+01 | 5.21E-07  | 2.45E-06 | 3.36E-10   |                   |
| 194  | 7  | Surface | Nickel      | mg/kg | 7.71E+01 | 7.55E-07  | 2.84E-06 | 4.87E-10   |                   |
| 194  | 7  | Surface | Silver      | mg/kg | 1.25E+01 | 1.22E-07  | 4.60E-07 | 7.89E-11   |                   |
| 194  | 8  | Surface | Chromium    | mg/kg | 5.36E+01 | 5.24E-07  | 2.46E-06 | 3.38E-10   |                   |
| 194  | 8  | Surface | Manganese   | mg/kg | 8.00E+02 | 7.83E-06  | 2.94E-05 | 5.05E-09   |                   |
| 194  | 8  | Surface | Total PAH   | mg/kg | 4.85E-01 | 4.75E-09  | 5.80E-08 | 2.26E-10   |                   |
| 194  | 8  | Surface | Uranium-238 | pCi/g | 1.39E+00 | 2.43E+01  |          | 1.57E-02   | 3.55E-01          |
| 194  | 9  | Surface | Arsenic     | mg/kg | 1.14E+01 | 1.12E-07  | 3.15E-07 | 7.21E-11   |                   |
| 194  | 9  | Surface | Chromium    | mg/kg | 5.17E+01 | 5.05E-07  | 2.38E-06 | 3.26E-10   |                   |
| 194  | 10 | Surface | Arsenic     | mg/kg | 1.22E+01 | 1.19E-07  | 3.36E-07 | 7.68E-11   |                   |
| 194  | 10 | Surface | Chromium    | mg/kg | 3.63E+01 | 3.55E-07  | 1.67E-06 | 2.29E-10   |                   |
| 194  | 10 | Surface | Nickel      | mg/kg | 7.60E+01 | 7.44E-07  | 2.80E-06 | 4.80E-10   |                   |
| 194  | 10 | Surface | Total PAH   | mg/kg | 2.57E-01 | 2.52E-09  | 3.07E-08 | 1.20E-10   |                   |
| 194  | 10 | Surface | Cesium-137  | pCi/g | 5.81E-01 | 1.02E+01  |          | 6.56E-03   | 1.49E-01          |
| 194  | 10 | Surface | Uranium-238 | pCi/g | 1.49E+00 | 2.61E+01  |          | 1.68E-02   | 3.81E-01          |
| 194  | 11 | Surface | Chromium    | mg/kg | 3.27E+01 | 3.20E-07  | 1.50E-06 | 2.06E-10   |                   |
| 194  | 11 | Surface | Mercury     | mg/kg | 8.09E+00 | 7.92E-08  | 3.72E-07 | 1.52E-06   |                   |
| 194  | 11 | Surface | Nickel      | mg/kg | 1.01E+02 | 9.85E-07  | 3.70E-06 | 6.36E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 11 | Surface | PCB, Total | mg/kg | 8.40E-02 | 8.22E-10  | 1.08E-08 | 8.94E-10   |                   |
| 194  | 11 | Surface | Silver     | mg/kg | 1.33E+01 | 1.30E-07  | 4.89E-07 | 8.39E-11   |                   |
| 194  | 11 | Surface | Total PAH  | mg/kg | 7.95E-02 | 7.78E-10  | 9.51E-09 | 3.71E-11   |                   |
| 194  | 12 | Surface | Chromium   | mg/kg | 6.34E+01 | 6.20E-07  | 2.91E-06 | 4.00E-10   |                   |
| 194  | 12 | Surface | Nickel     | mg/kg | 7.86E+01 | 7.69E-07  | 2.89E-06 | 4.96E-10   |                   |
| 194  | 12 | Surface | Silver     | mg/kg | 1.20E+01 | 1.17E-07  | 4.41E-07 | 7.56E-11   |                   |
| 194  | 12 | Surface | Total PAH  | mg/kg | 8.91E-01 | 8.72E-09  | 1.07E-07 | 4.16E-10   |                   |
| 194  | 13 | Surface | Chromium   | mg/kg | 4.77E+01 | 4.66E-07  | 2.19E-06 | 3.01E-10   |                   |
| 194  | 13 | Surface | Nickel     | mg/kg | 6.03E+01 | 5.90E-07  | 2.22E-06 | 3.81E-10   |                   |
| 194  | 13 | Surface | Total PAH  | mg/kg | 9.13E-02 | 8.94E-10  | 1.09E-08 | 4.26E-11   |                   |
| 194  | 14 | Surface | Chromium   | mg/kg | 5.21E+01 | 5.10E-07  | 2.40E-06 | 3.29E-10   |                   |
| 194  | 14 | Surface | Mercury    | mg/kg | 8.14E+00 | 7.96E-08  | 3.74E-07 | 1.53E-06   |                   |
| 194  | 15 | Surface | Chromium   | mg/kg | 5.33E+01 | 5.22E-07  | 2.45E-06 | 3.37E-10   |                   |
| 194  | 15 | Surface | Silver     | mg/kg | 1.03E+01 | 1.01E-07  | 3.79E-07 | 6.51E-11   |                   |
| 194  | 16 | Surface | Antimony   | mg/kg | 7.40E-01 | 7.24E-09  | 3.40E-08 | 4.67E-12   |                   |
| 194  | 16 | Surface | Arsenic    | mg/kg | 1.15E+01 | 1.13E-07  | 3.18E-07 | 7.27E-11   |                   |
| 194  | 16 | Surface | Beryllium  | mg/kg | 8.70E-01 | 8.51E-09  | 5.60E-09 | 5.49E-12   |                   |
| 194  | 16 | Surface | Chromium   | mg/kg | 5.32E+01 | 5.21E-07  | 2.45E-06 | 3.36E-10   |                   |
| 194  | 16 | Surface | Nickel     | mg/kg | 7.20E+01 | 7.05E-07  | 2.65E-06 | 4.55E-10   |                   |
| 194  | 16 | Surface | Thallium   | mg/kg | 6.30E-01 | 6.16E-09  | 2.90E-08 | 3.98E-12   |                   |
| 194  | 16 | Surface | Vanadium   | mg/kg | 4.11E+01 | 4.02E-07  | 9.83E-07 | 2.59E-10   |                   |
| 194  | 17 | Surface | Arsenic    | mg/kg | 1.16E+01 | 1.13E-07  | 3.19E-07 | 7.29E-11   |                   |
| 194  | 17 | Surface | Cadmium    | mg/kg | 1.10E+00 | 1.08E-08  | 1.01E-09 | 6.94E-12   |                   |
| 194  | 17 | Surface | Chromium   | mg/kg | 4.65E+01 | 4.55E-07  | 2.14E-06 | 2.93E-10   |                   |
| 194  | 17 | Surface | Total PAH  | mg/kg | 1.59E-01 | 1.55E-09  | 1.90E-08 | 7.41E-11   |                   |
| 194  | 18 | Surface | Arsenic    | mg/kg | 1.06E+01 | 1.03E-07  | 2.92E-07 | 6.67E-11   |                   |
| 194  | 18 | Surface | Beryllium  | mg/kg | 7.40E-01 | 7.24E-09  | 4.76E-09 | 4.67E-12   |                   |
| 194  | 18 | Surface | Chromium   | mg/kg | 6.85E+01 | 6.70E-07  | 3.15E-06 | 4.32E-10   |                   |
| 194  | 18 | Surface | Nickel     | mg/kg | 5.78E+01 | 5.65E-07  | 2.13E-06 | 3.65E-10   |                   |
| 194  | 19 | Surface | Arsenic    | mg/kg | 1.07E+01 | 1.05E-07  | 2.95E-07 | 6.75E-11   |                   |
| 194  | 19 | Surface | Chromium   | mg/kg | 4.84E+01 | 4.73E-07  | 2.22E-06 | 3.05E-10   |                   |
| 194  | 19 | Surface | Nickel     | mg/kg | 5.84E+01 | 5.71E-07  | 2.15E-06 | 3.69E-10   |                   |
| 194  | 20 | Surface | Arsenic    | mg/kg | 1.18E+01 | 1.16E-07  | 3.27E-07 | 7.47E-11   |                   |
| 194  | 20 | Surface | Barium     | mg/kg | 3.26E+02 | 3.19E-06  | 1.50E-05 | 2.06E-09   |                   |
| 194  | 20 | Surface | Beryllium  | mg/kg | 1.10E+00 | 1.08E-08  | 7.08E-09 | 6.94E-12   |                   |
| 194  | 20 | Surface | Chromium   | mg/kg | 5.24E+01 | 5.12E-07  | 2.41E-06 | 3.31E-10   |                   |
| 194  | 20 | Surface | Cobalt     | mg/kg | 2.11E+01 | 2.06E-07  | 9.70E-07 | 1.33E-10   |                   |
| 194  | 20 | Surface | Manganese  | mg/kg | 2.29E+03 | 2.24E-05  | 8.44E-05 | 1.45E-08   |                   |
| 194  | 20 | Surface | Mercury    | mg/kg | 7.28E+00 | 7.12E-08  | 3.35E-07 | 1.37E-06   |                   |
| 194  | 20 | Surface | Nickel     | mg/kg | 6.57E+01 | 6.43E-07  | 2.42E-06 | 4.15E-10   |                   |
| 194  | 20 | Surface | Silver     | mg/kg | 1.22E+01 | 1.20E-07  | 4.50E-07 | 7.71E-11   |                   |
| 194  | 20 | Surface | Total PAH  | mg/kg | 3.10E-02 | 3.03E-10  | 3.71E-09 | 1.45E-11   |                   |
| 194  | 20 | Surface | Vanadium   | mg/kg | 3.81E+01 | 3.73E-07  | 9.11E-07 | 2.41E-10   |                   |
| 194  | 21 | Surface | Antimony   | mg/kg | 9.30E-01 | 9.10E-09  | 4.28E-08 | 5.87E-12   |                   |
| 194  | 21 | Surface | Chromium   | mg/kg | 5.51E+01 | 5.39E-07  | 2.53E-06 | 3.48E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 21 | Surface | Mercury     | mg/kg | 6.62E+00 | 6.48E-08  | 3.04E-07 | 1.25E-06   |                   |
| 194  | 21 | Surface | Nickel      | mg/kg | 7.01E+01 | 6.86E-07  | 2.58E-06 | 4.43E-10   |                   |
| 194  | 21 | Surface | Thallium    | mg/kg | 6.40E-01 | 6.26E-09  | 2.94E-08 | 4.04E-12   |                   |
| 194  | 22 | Surface | Chromium    | mg/kg | 4.90E+01 | 4.79E-07  | 2.25E-06 | 3.09E-10   |                   |
| 194  | 22 | Surface | Manganese   | mg/kg | 8.19E+02 | 8.01E-06  | 3.01E-05 | 5.17E-09   |                   |
| 194  | 22 | Surface | PCB, Total  | mg/kg | 1.09E+01 | 1.07E-07  | 1.41E-06 | 1.16E-07   |                   |
| 194  | 23 | Surface | Arsenic     | mg/kg | 1.16E+01 | 1.13E-07  | 3.19E-07 | 7.29E-11   |                   |
| 194  | 23 | Surface | Chromium    | mg/kg | 6.60E+01 | 6.45E-07  | 3.03E-06 | 4.16E-10   |                   |
| 194  | 23 | Surface | Iron        | mg/kg | 1.83E+04 | 1.79E-04  | 8.41E-04 | 1.15E-07   |                   |
| 194  | 23 | Surface | Nickel      | mg/kg | 8.77E+01 | 8.58E-07  | 3.23E-06 | 5.54E-10   |                   |
| 194  | 23 | Surface | Silver      | mg/kg | 1.15E+01 | 1.12E-07  | 4.22E-07 | 7.25E-11   |                   |
| 194  | 24 | Surface | Chromium    | mg/kg | 5.02E+01 | 4.91E-07  | 2.31E-06 | 3.17E-10   |                   |
| 194  | 24 | Surface | Nickel      | mg/kg | 7.08E+01 | 6.92E-07  | 2.60E-06 | 4.47E-10   |                   |
| 194  | 24 | Surface | Total PAH   | mg/kg | 2.28E-02 | 2.23E-10  | 2.73E-09 | 1.06E-11   |                   |
| 194  | 25 | Surface | Barium      | mg/kg | 3.00E+02 | 2.94E-06  | 1.38E-05 | 1.89E-09   |                   |
| 194  | 25 | Surface | Chromium    | mg/kg | 6.13E+01 | 5.99E-07  | 2.82E-06 | 3.87E-10   |                   |
| 194  | 25 | Surface | Manganese   | mg/kg | 9.96E+02 | 9.74E-06  | 3.66E-05 | 6.29E-09   |                   |
| 194  | 25 | Surface | Nickel      | mg/kg | 6.33E+01 | 6.20E-07  | 2.33E-06 | 4.00E-10   |                   |
| 194  | 25 | Surface | Total PAH   | mg/kg | 2.06E-02 | 2.02E-10  | 2.46E-09 | 9.62E-12   |                   |
| 194  | 26 | Surface | Beryllium   | mg/kg | 7.00E-01 | 6.85E-09  | 4.51E-09 | 4.42E-12   |                   |
| 194  | 26 | Surface | Chromium    | mg/kg | 4.18E+01 | 4.09E-07  | 1.92E-06 | 2.64E-10   |                   |
| 194  | 26 | Surface | Silver      | mg/kg | 1.03E+01 | 1.00E-07  | 3.78E-07 | 6.48E-11   |                   |
| 194  | 26 | Surface | Thallium    | mg/kg | 3.90E-01 | 3.82E-09  | 1.79E-08 | 2.46E-12   |                   |
| 194  | 27 | Surface | Chromium    | mg/kg | 5.22E+01 | 5.10E-07  | 2.40E-06 | 3.29E-10   |                   |
| 194  | 27 | Surface | Nickel      | mg/kg | 6.55E+01 | 6.41E-07  | 2.41E-06 | 4.13E-10   |                   |
| 194  | 27 | Surface | Silver      | mg/kg | 1.01E+01 | 9.90E-08  | 3.72E-07 | 6.39E-11   |                   |
| 194  | 28 | Surface | Arsenic     | mg/kg | 1.20E+01 | 1.18E-07  | 3.32E-07 | 7.59E-11   |                   |
| 194  | 28 | Surface | Beryllium   | mg/kg | 7.10E-01 | 6.95E-09  | 4.57E-09 | 4.48E-12   |                   |
| 194  | 28 | Surface | Chromium    | mg/kg | 6.07E+01 | 5.94E-07  | 2.79E-06 | 3.83E-10   |                   |
| 194  | 28 | Surface | Manganese   | mg/kg | 1.14E+03 | 1.11E-05  | 4.19E-05 | 7.18E-09   |                   |
| 194  | 28 | Surface | Nickel      | mg/kg | 6.95E+01 | 6.80E-07  | 2.56E-06 | 4.38E-10   |                   |
| 194  | 28 | Surface | Silver      | mg/kg | 1.08E+01 | 1.06E-07  | 3.97E-07 | 6.81E-11   |                   |
| 194  | 28 | Surface | Vanadium    | mg/kg | 4.06E+01 | 3.97E-07  | 9.71E-07 | 2.56E-10   |                   |
| 194  | 29 | Surface | Antimony    | mg/kg | 7.10E-01 | 6.95E-09  | 3.27E-08 | 4.48E-12   |                   |
| 194  | 29 | Surface | Chromium    | mg/kg | 5.06E+01 | 4.95E-07  | 2.33E-06 | 3.19E-10   |                   |
| 194  | 29 | Surface | Nickel      | mg/kg | 6.51E+01 | 6.37E-07  | 2.40E-06 | 4.11E-10   |                   |
| 194  | 29 | Surface | Silver      | mg/kg | 9.77E+00 | 9.56E-08  | 3.59E-07 | 6.17E-11   |                   |
| 194  | 30 | Surface | Chromium    | mg/kg | 5.66E+01 | 5.54E-07  | 2.60E-06 | 3.57E-10   |                   |
| 194  | 30 | Surface | Mercury     | mg/kg | 8.80E+00 | 8.61E-08  | 4.05E-07 | 1.66E-06   |                   |
| 194  | 30 | Surface | Nickel      | mg/kg | 6.99E+01 | 6.84E-07  | 2.57E-06 | 4.41E-10   |                   |
| 194  | 30 | Surface | Silver      | mg/kg | 9.76E+00 | 9.55E-08  | 3.59E-07 | 6.16E-11   |                   |
| 194  | 31 | Surface | Cesium-137  | pCi/g | 5.70E-01 | 9.98E+00  |          | 6.44E-03   | 1.46E-01          |
| 194  | 31 | Surface | Uranium-238 | pCi/g | 1.72E+00 | 3.01E+01  |          | 1.94E-02   | 4.40E-01          |
| 196  | 1  | Surface | Antimony    | mg/kg | 5.90E-01 | 5.77E-09  | 2.71E-08 | 3.72E-12   |                   |
| 196  | 1  | Surface | Chromium    | mg/kg | 1.96E+01 | 1.92E-07  | 9.01E-07 | 1.24E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 196  | 1  | Surface | Nickel        | mg/kg | 5.56E+02 | 5.44E-06  | 2.05E-05 | 3.51E-09   |                   |
| 196  | 1  | Surface | Uranium       | mg/kg | 2.33E+01 | 2.28E-07  | 1.07E-06 | 1.47E-10   |                   |
| 196  | 1  | Surface | Neptunium-237 | pCi/g | 3.11E-01 | 5.44E+00  |          | 3.51E-03   | 7.95E-02          |
| 196  | 1  | Surface | Uranium-238   | pCi/g | 1.54E+00 | 2.70E+01  |          | 1.74E-02   | 3.94E-01          |
| 196  | 2  | Surface | Barium        | mg/kg | 2.02E+02 | 1.98E-06  | 9.29E-06 | 1.28E-09   |                   |
| 196  | 2  | Surface | Cadmium       | mg/kg | 2.53E+00 | 2.48E-08  | 2.33E-09 | 1.60E-11   |                   |
| 196  | 2  | Surface | Chromium      | mg/kg | 2.07E+01 | 2.03E-07  | 9.52E-07 | 1.31E-10   |                   |
| 196  | 2  | Surface | Nickel        | mg/kg | 7.36E+01 | 7.20E-07  | 2.71E-06 | 4.65E-10   |                   |
| 196  | 2  | Surface | PCB, Total    | mg/kg | 1.51E+00 | 1.48E-08  | 1.94E-07 | 1.61E-08   |                   |
| 196  | 2  | Surface | Total PAH     | mg/kg | 6.80E-01 | 6.65E-09  | 8.13E-08 | 3.17E-10   |                   |
| 196  | 2  | Surface | Uranium-238   | pCi/g | 2.21E+00 | 3.87E+01  |          | 2.50E-02   | 5.65E-01          |
| 489  | 1  | Surface | Chromium      | mg/kg | 4.16E+01 | 4.07E-07  | 1.91E-06 | 2.63E-10   |                   |
| 489  | 1  | Surface | Nickel        | mg/kg | 7.88E+01 | 7.71E-07  | 2.90E-06 | 4.98E-10   |                   |
| 489  | 1  | Surface | Total PAH     | mg/kg | 8.22E-02 | 8.04E-10  | 9.83E-09 | 3.84E-11   |                   |
| 489  | 1  | Surface | Uranium-238   | pCi/g | 1.47E+00 | 2.57E+01  |          | 1.66E-02   | 3.76E-01          |
| 531  | 1  | Surface | Antimony      | mg/kg | 1.00E+00 | 9.78E-09  | 4.60E-08 | 6.31E-12   |                   |
| 531  | 1  | Surface | Arsenic       | mg/kg | 4.68E+01 | 4.58E-07  | 1.29E-06 | 2.96E-10   |                   |
| 531  | 1  | Surface | Cadmium       | mg/kg | 3.10E+00 | 3.03E-08  | 2.85E-09 | 1.96E-11   |                   |
| 531  | 1  | Surface | Chromium      | mg/kg | 5.05E+01 | 4.94E-07  | 2.32E-06 | 3.18E-10   |                   |
| 531  | 1  | Surface | Iron          | mg/kg | 5.68E+04 | 5.56E-04  | 2.61E-03 | 3.59E-07   |                   |
| 531  | 1  | Surface | Nickel        | mg/kg | 1.62E+02 | 1.59E-06  | 5.97E-06 | 1.02E-09   |                   |
| 531  | 1  | Surface | Total PAH     | mg/kg | 5.34E-02 | 5.22E-10  | 6.38E-09 | 2.49E-11   |                   |
| 531  | 1  | Surface | Uranium       | mg/kg | 2.41E+01 | 2.36E-07  | 1.11E-06 | 1.52E-10   |                   |
| 531  | 1  | Surface | Zinc          | mg/kg | 2.45E+03 | 2.40E-05  | 1.13E-04 | 1.55E-08   |                   |
| 531  | 1  | Surface | Uranium-235   | pCi/g | 1.38E-01 | 2.42E+00  |          | 1.56E-03   | 3.53E-02          |
| 531  | 1  | Surface | Uranium-238   | pCi/g | 3.48E+00 | 6.09E+01  |          | 3.93E-02   | 8.90E-01          |
| 200  | 1  | Surface | Antimony      | mg/kg | 5.60E-01 | 5.48E-09  | 2.58E-08 | 3.54E-12   |                   |
| 200  | 1  | Surface | Chromium      | mg/kg | 5.75E+01 | 5.63E-07  | 2.65E-06 | 3.63E-10   |                   |
| 200  | 1  | Surface | Mercury       | mg/kg | 6.71E+00 | 6.57E-08  | 3.09E-07 | 1.26E-06   |                   |
| 200  | 1  | Surface | Nickel        | mg/kg | 1.28E+02 | 1.25E-06  | 4.71E-06 | 8.08E-10   |                   |
| 200  | 1  | Surface | PCB, Total    | mg/kg | 2.60E+00 | 2.54E-08  | 3.35E-07 | 2.77E-08   |                   |
| 200  | 1  | Surface | Total PAH     | mg/kg | 2.84E-02 | 2.78E-10  | 3.40E-09 | 1.33E-11   |                   |
| 200  | 1  | Surface | Uranium       | mg/kg | 2.73E+01 | 2.67E-07  | 1.26E-06 | 1.72E-10   |                   |
| 200  | 1  | Surface | Cesium-137    | pCi/g | 5.74E-01 | 1.00E+01  |          | 6.48E-03   | 1.47E-01          |
| 200  | 1  | Surface | Uranium-235   | pCi/g | 1.43E-01 | 2.50E+00  |          | 1.61E-03   | 3.66E-02          |
| 200  | 1  | Surface | Uranium-238   | pCi/g | 3.58E+00 | 6.26E+01  |          | 4.04E-02   | 9.15E-01          |
| 212  | 1  | Surface | Arsenic       | mg/kg | 1.44E+01 | 1.41E-07  | 3.98E-07 | 9.10E-11   |                   |
| 212  | 1  | Surface | Beryllium     | mg/kg | 8.10E-01 | 7.93E-09  | 5.22E-09 | 5.11E-12   |                   |
| 212  | 1  | Surface | Chromium      | mg/kg | 3.58E+01 | 3.50E-07  | 1.65E-06 | 2.26E-10   |                   |
| 212  | 1  | Surface | Iron          | mg/kg | 4.14E+04 | 4.05E-04  | 1.90E-03 | 2.61E-07   |                   |
| 212  | 1  | Surface | Nickel        | mg/kg | 8.69E+01 | 8.50E-07  | 3.20E-06 | 5.49E-10   |                   |
| 212  | 1  | Surface | PCB, Total    | mg/kg | 1.80E-01 | 1.76E-09  | 2.32E-08 | 1.92E-09   |                   |
| 212  | 1  | Surface | Uranium       | mg/kg | 2.30E+01 | 2.25E-07  | 1.06E-06 | 1.45E-10   |                   |
| 212  | 1  | Surface | Cesium-137    | pCi/g | 6.01E-01 | 1.05E+01  |          | 6.79E-03   | 1.54E-01          |
| 212  | 1  | Surface | Cobalt-60     | pCi/g | 8.76E-03 | 1.53E-01  |          | 9.89E-05   | 2.24E-03          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 212  | 1  | Surface | Neptunium-237     | pCi/g | 4.00E+00 | 7.00E+01  |          | 4.52E-02   | 1.02E+00          |
| 212  | 1  | Surface | Plutonium-239/240 | pCi/g | 6.71E+00 | 1.17E+02  |          | 7.58E-02   | 1.72E+00          |
| 212  | 1  | Surface | Thorium-230       | pCi/g | 2.60E+02 | 4.55E+03  |          | 2.94E+00   | 6.65E+01          |
| 212  | 1  | Surface | Uranium-235       | pCi/g | 2.09E-01 | 3.66E+00  |          | 2.36E-03   | 5.34E-02          |
| 212  | 1  | Surface | Uranium-238       | pCi/g | 3.17E+00 | 5.55E+01  |          | 3.58E-02   | 8.11E-01          |
| 213  | 1  | Surface | Antimony          | mg/kg | 8.50E-01 | 8.32E-09  | 3.91E-08 | 5.37E-12   |                   |
| 213  | 1  | Surface | Chromium          | mg/kg | 4.78E+01 | 4.68E-07  | 2.20E-06 | 3.02E-10   |                   |
| 213  | 1  | Surface | Nickel            | mg/kg | 6.67E+01 | 6.53E-07  | 2.46E-06 | 4.21E-10   |                   |
| 213  | 1  | Surface | PCB, Total        | mg/kg | 7.30E-02 | 7.14E-10  | 9.40E-09 | 7.77E-10   |                   |
| 213  | 1  | Surface | Silver            | mg/kg | 1.32E+01 | 1.29E-07  | 4.85E-07 | 8.31E-11   |                   |
| 213  | 1  | Surface | Total PAH         | mg/kg | 1.72E-01 | 1.68E-09  | 2.05E-08 | 8.02E-11   |                   |
| 213  | 1  | Surface | Uranium-238       | pCi/g | 2.33E+00 | 4.08E+01  |          | 2.63E-02   | 5.96E-01          |
| 213  | 2  | Surface | Chromium          | mg/kg | 4.48E+01 | 4.38E-07  | 2.06E-06 | 2.83E-10   |                   |
| 213  | 2  | Surface | Nickel            | mg/kg | 9.10E+01 | 8.90E-07  | 3.35E-06 | 5.74E-10   |                   |
| 213  | 2  | Surface | Silver            | mg/kg | 1.13E+01 | 1.10E-07  | 4.14E-07 | 7.11E-11   |                   |
| 214  | 1  | Surface | Antimony          | mg/kg | 5.70E-01 | 5.58E-09  | 2.62E-08 | 3.60E-12   |                   |
| 215  | 1  | Surface | Antimony          | mg/kg | 6.80E-01 | 6.65E-09  | 3.13E-08 | 4.29E-12   |                   |
| 215  | 1  | Surface | Chromium          | mg/kg | 5.73E+01 | 5.61E-07  | 2.64E-06 | 3.62E-10   |                   |
| 215  | 1  | Surface | Iron              | mg/kg | 3.87E+04 | 3.79E-04  | 1.78E-03 | 2.44E-07   |                   |
| 215  | 1  | Surface | Nickel            | mg/kg | 7.32E+01 | 7.16E-07  | 2.69E-06 | 4.62E-10   |                   |
| 215  | 1  | Surface | Total PAH         | mg/kg | 8.09E-02 | 7.91E-10  | 9.67E-09 | 3.78E-11   |                   |
| 216  | 1  | Surface | Chromium          | mg/kg | 2.38E+01 | 2.33E-07  | 1.09E-06 | 1.50E-10   |                   |
| 216  | 1  | Surface | Total PAH         | mg/kg | 1.49E-01 | 1.46E-09  | 1.79E-08 | 6.97E-11   |                   |
| 216  | 1  | Surface | Uranium-238       | pCi/g | 1.33E+00 | 2.33E+01  |          | 1.50E-02   | 3.40E-01          |
| 217  | 1  | Surface | Chromium          | mg/kg | 8.58E+01 | 8.39E-07  | 3.94E-06 | 5.41E-10   |                   |
| 217  | 1  | Surface | Cobalt            | mg/kg | 1.96E+01 | 1.91E-07  | 9.00E-07 | 1.24E-10   |                   |
| 217  | 1  | Surface | Manganese         | mg/kg | 7.70E+02 | 7.53E-06  | 2.83E-05 | 4.86E-09   |                   |
| 217  | 1  | Surface | Nickel            | mg/kg | 8.54E+01 | 8.36E-07  | 3.14E-06 | 5.39E-10   |                   |
| 217  | 1  | Surface | Silver            | mg/kg | 1.35E+01 | 1.32E-07  | 4.95E-07 | 8.49E-11   |                   |
| 217  | 1  | Surface | Uranium-238       | pCi/g | 1.15E+00 | 2.02E+01  |          | 1.30E-02   | 2.95E-01          |
| 217  | 2  | Surface | Antimony          | mg/kg | 1.70E+00 | 1.66E-08  | 7.82E-08 | 1.07E-11   |                   |
| 217  | 2  | Surface | Arsenic           | mg/kg | 1.12E+01 | 1.09E-07  | 3.08E-07 | 7.05E-11   |                   |
| 217  | 2  | Surface | Chromium          | mg/kg | 1.02E+02 | 9.94E-07  | 4.67E-06 | 6.41E-10   |                   |
| 217  | 2  | Surface | Cobalt            | mg/kg | 1.74E+01 | 1.70E-07  | 8.00E-07 | 1.10E-10   |                   |
| 217  | 2  | Surface | Iron              | mg/kg | 3.09E+04 | 3.03E-04  | 1.42E-03 | 1.95E-07   |                   |
| 217  | 2  | Surface | Manganese         | mg/kg | 8.44E+02 | 8.25E-06  | 3.10E-05 | 5.32E-09   |                   |
| 217  | 2  | Surface | Mercury           | mg/kg | 8.59E+00 | 8.41E-08  | 3.95E-07 | 1.62E-06   |                   |
| 217  | 2  | Surface | Nickel            | mg/kg | 9.74E+01 | 9.53E-07  | 3.58E-06 | 6.15E-10   |                   |
| 217  | 2  | Surface | Silver            | mg/kg | 1.61E+01 | 1.57E-07  | 5.92E-07 | 1.02E-10   |                   |
| 217  | 2  | Surface | Total PAH         | mg/kg | 5.05E-01 | 4.94E-09  | 6.04E-08 | 2.36E-10   |                   |
| 221  | 1  | Surface | Barium            | mg/kg | 2.21E+02 | 2.16E-06  | 1.02E-05 | 1.40E-09   |                   |
| 221  | 1  | Surface | Chromium          | mg/kg | 7.01E+01 | 6.86E-07  | 3.22E-06 | 4.43E-10   |                   |
| 221  | 1  | Surface | Iron              | mg/kg | 1.90E+04 | 1.86E-04  | 8.73E-04 | 1.20E-07   |                   |
| 221  | 1  | Surface | Nickel            | mg/kg | 7.93E+01 | 7.76E-07  | 2.92E-06 | 5.00E-10   |                   |
| 221  | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 4.89E-09  | 6.44E-08 | 5.32E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 221  | 1  | Surface | Total PAH     | mg/kg | 1.02E+00 | 1.00E-08  | 1.22E-07 | 4.77E-10   |                   |
| 221  | 1  | Surface | Uranium       | mg/kg | 1.64E+01 | 1.60E-07  | 7.52E-07 | 1.03E-10   |                   |
| 221  | 1  | Surface | Uranium-238   | pCi/g | 1.93E+00 | 3.38E+01  |          | 2.18E-02   | 4.94E-01          |
| 222  | 1  | Surface | Chromium      | mg/kg | 4.73E+01 | 4.63E-07  | 2.18E-06 | 2.99E-10   |                   |
| 222  | 1  | Surface | Nickel        | mg/kg | 9.19E+01 | 8.99E-07  | 3.38E-06 | 5.80E-10   |                   |
| 222  | 1  | Surface | PCB, Total    | mg/kg | 1.40E+00 | 1.37E-08  | 1.80E-07 | 1.49E-08   |                   |
| 222  | 1  | Surface | Total PAH     | mg/kg | 1.77E-01 | 1.73E-09  | 2.12E-08 | 8.27E-11   |                   |
| 222  | 1  | Surface | Uranium       | mg/kg | 2.80E+01 | 2.74E-07  | 1.29E-06 | 1.77E-10   |                   |
| 222  | 1  | Surface | Uranium-234   | pCi/g | 1.04E+01 | 1.82E+02  |          | 1.17E-01   | 2.66E+00          |
| 222  | 1  | Surface | Uranium-235   | pCi/g | 7.10E-01 | 1.24E+01  |          | 8.02E-03   | 1.82E-01          |
| 222  | 1  | Surface | Uranium-238   | pCi/g | 1.96E+01 | 3.43E+02  |          | 2.21E-01   | 5.01E+00          |
| 227  | 1  | Surface | Beryllium     | mg/kg | 5.52E-01 | 5.40E-09  | 3.55E-09 | 3.48E-12   |                   |
| 227  | 1  | Surface | Chromium      | mg/kg | 4.71E+01 | 4.61E-07  | 2.17E-06 | 2.98E-10   |                   |
| 227  | 1  | Surface | Nickel        | mg/kg | 2.03E+02 | 1.99E-06  | 7.47E-06 | 1.28E-09   |                   |
| 227  | 1  | Surface | PCB, Total    | mg/kg | 4.14E+00 | 4.05E-08  | 5.33E-07 | 4.41E-08   |                   |
| 227  | 1  | Surface | Total PAH     | mg/kg | 3.38E-01 | 3.31E-09  | 4.04E-08 | 1.58E-10   |                   |
| 227  | 1  | Surface | Uranium       | mg/kg | 1.02E+02 | 9.94E-07  | 4.67E-06 | 6.41E-10   |                   |
| 227  | 1  | Surface | Cesium-137    | pCi/g | 1.90E-01 | 3.33E+00  |          | 2.15E-03   | 4.86E-02          |
| 227  | 1  | Surface | Cobalt-60     | pCi/g | 1.53E-02 | 2.68E-01  |          | 1.73E-04   | 3.91E-03          |
| 227  | 1  | Surface | Neptunium-237 | pCi/g | 9.05E-01 | 1.58E+01  |          | 1.02E-02   | 2.31E-01          |
| 227  | 1  | Surface | Technetium-99 | pCi/g | 4.77E+01 | 8.35E+02  |          | 5.39E-01   | 1.22E+01          |
| 227  | 1  | Surface | Uranium-234   | pCi/g | 1.54E+01 | 2.70E+02  |          | 1.74E-01   | 3.95E+00          |
| 227  | 1  | Surface | Uranium-235   | pCi/g | 1.49E+00 | 2.61E+01  |          | 1.68E-02   | 3.81E-01          |
| 227  | 1  | Surface | Uranium-238   | pCi/g | 4.63E+01 | 8.10E+02  |          | 5.23E-01   | 1.18E+01          |
| 227  | 2  | Surface | Beryllium     | mg/kg | 5.32E-01 | 5.21E-09  | 3.43E-09 | 3.36E-12   |                   |
| 227  | 2  | Surface | Chromium      | mg/kg | 5.63E+01 | 5.51E-07  | 2.59E-06 | 3.55E-10   |                   |
| 227  | 2  | Surface | Cobalt        | mg/kg | 8.99E+00 | 8.79E-08  | 4.13E-07 | 5.67E-11   |                   |
| 227  | 2  | Surface | Mercury       | mg/kg | 8.41E+00 | 8.23E-08  | 3.87E-07 | 1.58E-06   |                   |
| 227  | 2  | Surface | Nickel        | mg/kg | 1.25E+02 | 1.22E-06  | 4.60E-06 | 7.88E-10   |                   |
| 227  | 2  | Surface | PCB, Total    | mg/kg | 5.82E+00 | 5.70E-08  | 7.50E-07 | 6.19E-08   |                   |
| 227  | 2  | Surface | Total PAH     | mg/kg | 1.16E-01 | 1.13E-09  | 1.38E-08 | 5.40E-11   |                   |
| 227  | 2  | Surface | Uranium       | mg/kg | 1.51E+01 | 1.47E-07  | 6.92E-07 | 9.50E-11   |                   |
| 227  | 2  | Surface | Cobalt-60     | pCi/g | 1.37E-02 | 2.40E-01  |          | 1.55E-04   | 3.50E-03          |
| 227  | 2  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 2.75E+01  |          | 1.78E-02   | 4.02E-01          |
| 228  | 1  | Surface | Antimony      | mg/kg | 6.30E-01 | 6.16E-09  | 2.90E-08 | 3.98E-12   |                   |
| 228  | 1  | Surface | Cadmium       | mg/kg | 3.90E+00 | 3.82E-08  | 3.59E-09 | 2.46E-11   |                   |
| 228  | 1  | Surface | Chromium      | mg/kg | 1.89E+02 | 1.85E-06  | 8.69E-06 | 1.19E-09   |                   |
| 228  | 1  | Surface | Mercury       | mg/kg | 9.37E+00 | 9.17E-08  | 4.31E-07 | 1.76E-06   |                   |
| 228  | 1  | Surface | Nickel        | mg/kg | 7.92E+01 | 7.75E-07  | 2.91E-06 | 5.00E-10   |                   |
| 228  | 1  | Surface | Silver        | mg/kg | 1.16E+01 | 1.14E-07  | 4.28E-07 | 7.34E-11   |                   |
| 228  | 1  | Surface | Total PAH     | mg/kg | 6.69E-02 | 6.54E-10  | 8.00E-09 | 3.12E-11   |                   |
| 228  | 1  | Surface | Uranium       | mg/kg | 1.51E+01 | 1.48E-07  | 6.96E-07 | 9.55E-11   |                   |
| 228  | 1  | Surface | Neptunium-237 | pCi/g | 8.00E-01 | 1.40E+01  |          | 9.03E-03   | 2.05E-01          |
| 228  | 1  | Surface | Uranium-235   | pCi/g | 1.78E-01 | 3.12E+00  |          | 2.01E-03   | 4.55E-02          |
| 228  | 1  | Surface | Uranium-238   | pCi/g | 3.77E+00 | 6.60E+01  |          | 4.26E-02   | 9.64E-01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 76   | 1  | Surface | Barium            | mg/kg | 2.69E+02 | 2.63E-06  | 1.24E-05 | 1.70E-09   |                   |
| 76   | 1  | Surface | PCB, Total        | mg/kg | 2.60E-01 | 2.54E-09  | 3.35E-08 | 2.77E-09   |                   |
| 76   | 1  | Surface | Total PAH         | mg/kg | 1.76E+00 | 1.72E-08  | 2.10E-07 | 8.21E-10   |                   |
| 76   | 1  | Surface | Uranium-238       | pCi/g | 1.45E+00 | 2.54E+01  |          | 1.64E-02   | 3.71E-01          |
| 165  | 1  | Surface | Antimony          | mg/kg | 2.20E+00 | 2.15E-08  | 1.01E-07 | 1.39E-11   |                   |
| 165  | 1  | Surface | Arsenic           | mg/kg | 6.35E+01 | 6.21E-07  | 1.75E-06 | 4.01E-10   |                   |
| 165  | 1  | Surface | Barium            | mg/kg | 5.84E+02 | 5.72E-06  | 2.69E-05 | 3.69E-09   |                   |
| 165  | 1  | Surface | Beryllium         | mg/kg | 6.82E-01 | 6.67E-09  | 4.39E-09 | 4.31E-12   |                   |
| 165  | 1  | Surface | Chromium          | mg/kg | 3.74E+01 | 3.66E-07  | 1.72E-06 | 2.36E-10   |                   |
| 165  | 1  | Surface | Mercury           | mg/kg | 3.78E-01 | 3.70E-09  | 1.74E-08 | 7.11E-08   |                   |
| 165  | 1  | Surface | Naphthalene       | mg/kg | 1.61E+00 | 1.58E-08  | 3.70E-07 | 3.39E-07   |                   |
| 165  | 1  | Surface | Nickel            | mg/kg | 3.47E+01 | 3.39E-07  | 1.28E-06 | 2.19E-10   |                   |
| 165  | 1  | Surface | PCB, Total        | mg/kg | 8.27E+00 | 8.09E-08  | 1.06E-06 | 8.80E-08   |                   |
| 165  | 1  | Surface | Silver            | mg/kg | 3.09E+01 | 3.03E-07  | 1.14E-06 | 1.95E-10   |                   |
| 165  | 1  | Surface | Total PAH         | mg/kg | 1.87E+00 | 1.83E-08  | 2.23E-07 | 8.72E-10   |                   |
| 165  | 1  | Surface | Uranium           | mg/kg | 1.08E+02 | 1.05E-06  | 4.94E-06 | 6.79E-10   |                   |
| 165  | 1  | Surface | Cesium-137        | pCi/g | 3.47E+00 | 6.07E+01  |          | 3.92E-02   | 8.88E-01          |
| 165  | 1  | Surface | Neptunium-237     | pCi/g | 4.26E-01 | 7.46E+00  |          | 4.81E-03   | 1.09E-01          |
| 165  | 1  | Surface | Plutonium-239/240 | pCi/g | 2.81E+00 | 4.91E+01  |          | 3.17E-02   | 7.17E-01          |
| 165  | 1  | Surface | Thorium-230       | pCi/g | 6.02E+00 | 1.05E+02  |          | 6.79E-02   | 1.54E+00          |
| 165  | 1  | Surface | Uranium-234       | pCi/g | 5.76E+01 | 1.01E+03  |          | 6.50E-01   | 1.47E+01          |
| 165  | 1  | Surface | Uranium-235       | pCi/g | 2.05E+00 | 3.58E+01  |          | 2.31E-02   | 5.23E-01          |
| 165  | 1  | Surface | Uranium-238       | pCi/g | 6.41E+01 | 1.12E+03  |          | 7.24E-01   | 1.64E+01          |
| 170  | 1  | Surface | Neptunium-237     | pCi/g | 1.15E-01 | 2.01E+00  |          | 1.30E-03   | 2.94E-02          |
| 170  | 1  | Surface | Uranium-238       | pCi/g | 1.53E+00 | 2.68E+01  |          | 1.73E-02   | 3.91E-01          |
| 158  | 1  | Surface | Antimony          | mg/kg | 5.23E-01 | 5.12E-09  | 2.41E-08 | 3.30E-12   |                   |
| 158  | 1  | Surface | Arsenic           | mg/kg | 1.01E+01 | 9.90E-08  | 2.79E-07 | 6.39E-11   |                   |
| 158  | 1  | Surface | Barium            | mg/kg | 2.19E+02 | 2.14E-06  | 1.01E-05 | 1.38E-09   |                   |
| 158  | 1  | Surface | Chromium          | mg/kg | 6.07E+01 | 5.94E-07  | 2.79E-06 | 3.83E-10   |                   |
| 158  | 1  | Surface | Cobalt            | mg/kg | 1.62E+01 | 1.59E-07  | 7.46E-07 | 1.02E-10   |                   |
| 158  | 1  | Surface | Manganese         | mg/kg | 9.91E+02 | 9.69E-06  | 3.64E-05 | 6.25E-09   |                   |
| 158  | 1  | Surface | Mercury           | mg/kg | 1.05E+01 | 1.02E-07  | 4.81E-07 | 1.97E-06   |                   |
| 158  | 1  | Surface | Nickel            | mg/kg | 7.28E+01 | 7.13E-07  | 2.68E-06 | 4.60E-10   |                   |
| 158  | 1  | Surface | Thallium          | mg/kg | 3.12E-01 | 3.05E-09  | 1.43E-08 | 1.97E-12   |                   |
| 158  | 1  | Surface | Total PAH         | mg/kg | 3.69E-01 | 3.61E-09  | 4.41E-08 | 1.72E-10   |                   |
| 158  | 1  | Surface | Uranium           | mg/kg | 2.03E+01 | 1.99E-07  | 9.34E-07 | 1.28E-10   |                   |
| 158  | 1  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 2.85E+00  |          | 1.84E-03   | 4.17E-02          |
| 158  | 1  | Surface | Uranium-238       | pCi/g | 3.79E+00 | 6.63E+01  |          | 4.28E-02   | 9.69E-01          |
| 169  | 1  | Surface | Aluminum          | mg/kg | 1.42E+04 | 1.39E-04  | 6.53E-04 | 8.96E-08   |                   |
| 169  | 1  | Surface | Antimony          | mg/kg | 1.30E+00 | 1.27E-08  | 5.98E-08 | 8.21E-12   |                   |
| 169  | 1  | Surface | Arsenic           | mg/kg | 2.03E+01 | 1.99E-07  | 5.60E-07 | 1.28E-10   |                   |
| 169  | 1  | Surface | Beryllium         | mg/kg | 8.00E-01 | 7.83E-09  | 5.15E-09 | 5.05E-12   |                   |
| 169  | 1  | Surface | Chromium          | mg/kg | 2.15E+02 | 2.10E-06  | 9.88E-06 | 1.36E-09   |                   |
| 169  | 1  | Surface | Copper            | mg/kg | 3.74E+02 | 3.66E-06  | 1.72E-05 | 2.36E-09   |                   |
| 169  | 1  | Surface | Iron              | mg/kg | 4.16E+04 | 4.07E-04  | 1.91E-03 | 2.62E-07   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration



**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 169  | 1  | Surface | Mercury     | mg/kg | 7.87E+00 | 7.70E-08  | 3.62E-07 | 1.48E-06   |                   |
| 169  | 1  | Surface | Nickel      | mg/kg | 5.49E+02 | 5.37E-06  | 2.02E-05 | 3.46E-09   |                   |
| 169  | 1  | Surface | PCB, Total  | mg/kg | 1.00E+01 | 9.78E-08  | 1.29E-06 | 1.06E-07   |                   |
| 169  | 1  | Surface | Thallium    | mg/kg | 4.60E-01 | 4.50E-09  | 2.12E-08 | 2.90E-12   |                   |
| 169  | 1  | Surface | Total PAH   | mg/kg | 4.59E+00 | 4.49E-08  | 5.48E-07 | 2.14E-09   |                   |
| 169  | 1  | Surface | Uranium     | mg/kg | 5.03E+01 | 4.92E-07  | 2.31E-06 | 3.18E-10   |                   |
| 169  | 1  | Surface | Uranium-234 | pCi/g | 6.55E+00 | 1.15E+02  |          | 7.40E-02   | 1.67E+00          |
| 169  | 1  | Surface | Uranium-235 | pCi/g | 4.60E-01 | 8.05E+00  |          | 5.19E-03   | 1.18E-01          |
| 169  | 1  | Surface | Uranium-238 | pCi/g | 8.12E+00 | 1.42E+02  |          | 9.17E-02   | 2.08E+00          |
| 19   | 1  | Surface | Beryllium   | mg/kg | 1.10E+00 | 1.08E-08  | 7.08E-09 | 6.94E-12   |                   |
| 19   | 1  | Surface | Cadmium     | mg/kg | 1.20E+00 | 1.17E-08  | 1.10E-09 | 7.58E-12   |                   |
| 19   | 1  | Surface | Thallium    | mg/kg | 9.80E-01 | 9.59E-09  | 4.51E-08 | 6.19E-12   |                   |
| 19   | 1  | Surface | Total PAH   | mg/kg | 5.23E+00 | 5.11E-08  | 6.25E-07 | 2.44E-09   |                   |
| 138  | 1  | Surface | Antimony    | mg/kg | 5.39E+00 | 5.28E-08  | 2.48E-07 | 3.41E-11   |                   |
| 138  | 1  | Surface | Arsenic     | mg/kg | 1.06E+01 | 1.04E-07  | 2.93E-07 | 6.70E-11   |                   |
| 138  | 1  | Surface | Cadmium     | mg/kg | 5.42E+00 | 5.30E-08  | 4.99E-09 | 3.42E-11   |                   |
| 138  | 1  | Surface | Chromium    | mg/kg | 5.39E+01 | 5.27E-07  | 2.48E-06 | 3.40E-10   |                   |
| 138  | 1  | Surface | Mercury     | mg/kg | 1.30E+01 | 1.27E-07  | 5.97E-07 | 2.44E-06   |                   |
| 138  | 1  | Surface | Nickel      | mg/kg | 7.04E+01 | 6.89E-07  | 2.59E-06 | 4.44E-10   |                   |
| 138  | 1  | Surface | PCB, Total  | mg/kg | 5.00E-01 | 4.89E-09  | 6.44E-08 | 5.32E-09   |                   |
| 138  | 1  | Surface | Silver      | mg/kg | 1.01E+01 | 9.87E-08  | 3.71E-07 | 6.37E-11   |                   |
| 138  | 1  | Surface | Total PAH   | mg/kg | 9.74E-02 | 9.53E-10  | 1.16E-08 | 4.55E-11   |                   |
| 138  | 2  | Surface | Nickel      | mg/kg | 7.99E+01 | 7.81E-07  | 2.94E-06 | 5.04E-10   |                   |
| 138  | 2  | Surface | PCB, Total  | mg/kg | 9.20E-02 | 9.00E-10  | 1.18E-08 | 9.79E-10   |                   |
| 138  | 2  | Surface | Silver      | mg/kg | 1.04E+01 | 1.02E-07  | 3.84E-07 | 6.59E-11   |                   |
| 138  | 2  | Surface | Total PAH   | mg/kg | 3.84E-02 | 3.76E-10  | 4.59E-09 | 1.79E-11   |                   |
| 180  | 1  | Surface | Antimony    | mg/kg | 5.80E-01 | 5.68E-09  | 2.67E-08 | 3.66E-12   |                   |
| 180  | 1  | Surface | Arsenic     | mg/kg | 7.48E+01 | 7.32E-07  | 2.06E-06 | 4.72E-10   |                   |
| 180  | 1  | Surface | Chromium    | mg/kg | 5.54E+01 | 5.42E-07  | 2.55E-06 | 3.50E-10   |                   |
| 180  | 1  | Surface | Mercury     | mg/kg | 8.28E+00 | 8.10E-08  | 3.81E-07 | 1.56E-06   |                   |
| 180  | 1  | Surface | Nickel      | mg/kg | 8.77E+01 | 8.58E-07  | 3.23E-06 | 5.53E-10   |                   |
| 180  | 2  | Surface | Antimony    | mg/kg | 4.58E-01 | 4.48E-09  | 2.11E-08 | 2.89E-12   |                   |
| 180  | 2  | Surface | Arsenic     | mg/kg | 1.27E+01 | 1.24E-07  | 3.49E-07 | 7.99E-11   |                   |
| 180  | 2  | Surface | Chromium    | mg/kg | 4.46E+01 | 4.37E-07  | 2.05E-06 | 2.82E-10   |                   |
| 180  | 2  | Surface | Nickel      | mg/kg | 8.42E+01 | 8.23E-07  | 3.10E-06 | 5.31E-10   |                   |
| 180  | 2  | Surface | Total PAH   | mg/kg | 9.19E-02 | 8.99E-10  | 1.10E-08 | 4.29E-11   |                   |
| 180  | 3  | Surface | Arsenic     | mg/kg | 1.34E+01 | 1.31E-07  | 3.68E-07 | 8.43E-11   |                   |
| 180  | 3  | Surface | Chromium    | mg/kg | 4.69E+01 | 4.59E-07  | 2.16E-06 | 2.96E-10   |                   |
| 180  | 3  | Surface | Nickel      | mg/kg | 6.77E+01 | 6.63E-07  | 2.49E-06 | 4.27E-10   |                   |
| 180  | 3  | Surface | Silver      | mg/kg | 1.14E+01 | 1.12E-07  | 4.19E-07 | 7.20E-11   |                   |
| 180  | 4  | Surface | Arsenic     | mg/kg | 1.15E+01 | 1.13E-07  | 3.18E-07 | 7.28E-11   |                   |
| 180  | 4  | Surface | Barium      | mg/kg | 2.13E+02 | 2.08E-06  | 9.80E-06 | 1.34E-09   |                   |
| 180  | 4  | Surface | Beryllium   | mg/kg | 1.60E+00 | 1.57E-08  | 1.03E-08 | 1.01E-11   |                   |
| 180  | 4  | Surface | Chromium    | mg/kg | 6.00E+01 | 5.87E-07  | 2.76E-06 | 3.79E-10   |                   |
| 180  | 4  | Surface | Iron        | mg/kg | 1.54E+04 | 1.50E-04  | 7.07E-04 | 9.70E-08   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC      | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-----------|-------|----------|-----------|----------|------------|-------------------|
| 180  | 4  | Surface | Manganese | mg/kg | 7.09E+02 | 6.94E-06  | 2.61E-05 | 4.48E-09   |                   |
| 180  | 4  | Surface | Nickel    | mg/kg | 6.46E+01 | 6.32E-07  | 2.38E-06 | 4.08E-10   |                   |
| 180  | 4  | Surface | Silver    | mg/kg | 9.68E+00 | 9.47E-08  | 3.56E-07 | 6.11E-11   |                   |
| 180  | 4  | Surface | Total PAH | mg/kg | 2.15E-02 | 2.10E-10  | 2.57E-09 | 1.00E-11   |                   |
| 180  | 4  | Surface | Vanadium  | mg/kg | 4.85E+01 | 4.75E-07  | 1.16E-06 | 3.06E-10   |                   |
| 181  | 1  | Surface | Chromium  | mg/kg | 2.29E+01 | 2.24E-07  | 1.05E-06 | 1.44E-10   |                   |
| 181  | 1  | Surface | Thallium  | mg/kg | 3.50E+00 | 3.42E-08  | 1.61E-07 | 2.21E-11   |                   |
| 181  | 1  | Surface | Total PAH | mg/kg | 3.43E-02 | 3.36E-10  | 4.10E-09 | 1.60E-11   |                   |
| 195  | 1  | Surface | Chromium  | mg/kg | 6.33E+01 | 6.19E-07  | 2.91E-06 | 3.99E-10   |                   |
| 195  | 1  | Surface | Nickel    | mg/kg | 7.02E+01 | 6.87E-07  | 2.58E-06 | 4.43E-10   |                   |
| 195  | 1  | Surface | Silver    | mg/kg | 9.37E+00 | 9.17E-08  | 3.45E-07 | 5.92E-11   |                   |
| 195  | 2  | Surface | Chromium  | mg/kg | 4.52E+01 | 4.42E-07  | 2.08E-06 | 2.85E-10   |                   |
| 195  | 2  | Surface | Silver    | mg/kg | 9.48E+00 | 9.28E-08  | 3.49E-07 | 5.98E-11   |                   |
| 195  | 2  | Surface | Total PAH | mg/kg | 2.68E-02 | 2.62E-10  | 3.20E-09 | 1.25E-11   |                   |
| 195  | 3  | Surface | Chromium  | mg/kg | 5.03E+01 | 4.92E-07  | 2.31E-06 | 3.18E-10   |                   |
| 195  | 3  | Surface | Nickel    | mg/kg | 5.22E+01 | 5.10E-07  | 1.92E-06 | 3.29E-10   |                   |
| 195  | 3  | Surface | Total PAH | mg/kg | 4.06E-02 | 3.97E-10  | 4.85E-09 | 1.90E-11   |                   |
| 195  | 4  | Surface | Chromium  | mg/kg | 5.29E+01 | 5.18E-07  | 2.43E-06 | 3.34E-10   |                   |
| 195  | 4  | Surface | Nickel    | mg/kg | 6.23E+01 | 6.09E-07  | 2.29E-06 | 3.93E-10   |                   |
| 195  | 5  | Surface | Chromium  | mg/kg | 5.74E+01 | 5.62E-07  | 2.64E-06 | 3.62E-10   |                   |
| 195  | 5  | Surface | Nickel    | mg/kg | 8.11E+01 | 7.94E-07  | 2.98E-06 | 5.12E-10   |                   |
| 195  | 5  | Surface | Total PAH | mg/kg | 2.40E-02 | 2.35E-10  | 2.87E-09 | 1.12E-11   |                   |
| 195  | 6  | Surface | Chromium  | mg/kg | 4.45E+01 | 4.36E-07  | 2.05E-06 | 2.81E-10   |                   |
| 195  | 6  | Surface | Nickel    | mg/kg | 8.71E+01 | 8.52E-07  | 3.20E-06 | 5.50E-10   |                   |
| 195  | 6  | Surface | Total PAH | mg/kg | 2.48E-01 | 2.42E-09  | 2.96E-08 | 1.16E-10   |                   |
| 195  | 7  | Surface | Chromium  | mg/kg | 4.93E+01 | 4.82E-07  | 2.27E-06 | 3.11E-10   |                   |
| 195  | 7  | Surface | Silver    | mg/kg | 8.06E+00 | 7.89E-08  | 2.97E-07 | 5.09E-11   |                   |
| 195  | 8  | Surface | Arsenic   | mg/kg | 1.16E+01 | 1.13E-07  | 3.19E-07 | 7.30E-11   |                   |
| 195  | 8  | Surface | Beryllium | mg/kg | 7.40E-01 | 7.24E-09  | 4.76E-09 | 4.67E-12   |                   |
| 195  | 8  | Surface | Chromium  | mg/kg | 6.79E+01 | 6.65E-07  | 3.12E-06 | 4.29E-10   |                   |
| 195  | 8  | Surface | Cobalt    | mg/kg | 1.82E+01 | 1.78E-07  | 8.37E-07 | 1.15E-10   |                   |
| 195  | 8  | Surface | Nickel    | mg/kg | 7.01E+01 | 6.86E-07  | 2.58E-06 | 4.43E-10   |                   |
| 195  | 8  | Surface | Total PAH | mg/kg | 2.16E-01 | 2.11E-09  | 2.58E-08 | 1.01E-10   |                   |
| 195  | 8  | Surface | Vanadium  | mg/kg | 4.04E+01 | 3.95E-07  | 9.66E-07 | 2.55E-10   |                   |
| 195  | 9  | Surface | Chromium  | mg/kg | 6.08E+01 | 5.95E-07  | 2.80E-06 | 3.84E-10   |                   |
| 195  | 9  | Surface | Nickel    | mg/kg | 7.93E+01 | 7.76E-07  | 2.92E-06 | 5.00E-10   |                   |
| 195  | 10 | Surface | Chromium  | mg/kg | 4.51E+01 | 4.41E-07  | 2.07E-06 | 2.85E-10   |                   |
| 195  | 10 | Surface | Nickel    | mg/kg | 7.40E+01 | 7.24E-07  | 2.72E-06 | 4.67E-10   |                   |
| 195  | 10 | Surface | Silver    | mg/kg | 1.31E+01 | 1.28E-07  | 4.82E-07 | 8.28E-11   |                   |
| 195  | 11 | Surface | Aluminum  | mg/kg | 2.81E+04 | 2.75E-04  | 1.29E-03 | 1.77E-07   |                   |
| 195  | 11 | Surface | Arsenic   | mg/kg | 1.35E+01 | 1.32E-07  | 3.71E-07 | 8.50E-11   |                   |
| 195  | 11 | Surface | Barium    | mg/kg | 4.53E+02 | 4.43E-06  | 2.08E-05 | 2.86E-09   |                   |
| 195  | 11 | Surface | Chromium  | mg/kg | 5.05E+01 | 4.94E-07  | 2.32E-06 | 3.19E-10   |                   |
| 195  | 11 | Surface | Cobalt    | mg/kg | 2.77E+01 | 2.71E-07  | 1.27E-06 | 1.75E-10   |                   |
| 195  | 11 | Surface | Iron      | mg/kg | 1.97E+04 | 1.93E-04  | 9.06E-04 | 1.24E-07   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 195  | 11 | Surface | Nickel        | mg/kg | 6.77E+01 | 6.62E-07  | 2.49E-06 | 4.27E-10   |                   |
| 195  | 11 | Surface | Thallium      | mg/kg | 6.60E-01 | 6.46E-09  | 3.04E-08 | 4.17E-12   |                   |
| 195  | 11 | Surface | Vanadium      | mg/kg | 7.97E+01 | 7.80E-07  | 1.91E-06 | 5.03E-10   |                   |
| 195  | 12 | Surface | Beryllium     | mg/kg | 7.50E-01 | 7.34E-09  | 4.83E-09 | 4.73E-12   |                   |
| 195  | 12 | Surface | Chromium      | mg/kg | 7.04E+01 | 6.89E-07  | 3.24E-06 | 4.44E-10   |                   |
| 195  | 12 | Surface | Nickel        | mg/kg | 6.78E+01 | 6.63E-07  | 2.49E-06 | 4.28E-10   |                   |
| 195  | 13 | Surface | Chromium      | mg/kg | 6.55E+01 | 6.41E-07  | 3.01E-06 | 4.14E-10   |                   |
| 195  | 13 | Surface | Nickel        | mg/kg | 6.91E+01 | 6.76E-07  | 2.54E-06 | 4.36E-10   |                   |
| 195  | 14 | Surface | Chromium      | mg/kg | 5.94E+01 | 5.82E-07  | 2.73E-06 | 3.75E-10   |                   |
| 195  | 14 | Surface | Nickel        | mg/kg | 7.04E+01 | 6.88E-07  | 2.59E-06 | 4.44E-10   |                   |
| 195  | 15 | Surface | Chromium      | mg/kg | 4.82E+01 | 4.71E-07  | 2.22E-06 | 3.04E-10   |                   |
| 195  | 16 | Surface | Chromium      | mg/kg | 4.45E+01 | 4.35E-07  | 2.04E-06 | 2.81E-10   |                   |
| 195  | 16 | Surface | Nickel        | mg/kg | 8.16E+01 | 7.98E-07  | 3.00E-06 | 5.15E-10   |                   |
| 195  | 17 | Surface | Chromium      | mg/kg | 8.22E+01 | 8.04E-07  | 3.78E-06 | 5.19E-10   |                   |
| 195  | 17 | Surface | Mercury       | mg/kg | 4.17E-01 | 4.08E-09  | 1.92E-08 | 7.85E-08   |                   |
| 195  | 17 | Surface | Nickel        | mg/kg | 5.93E+01 | 5.81E-07  | 2.18E-06 | 3.75E-10   |                   |
| 195  | 17 | Surface | PCB, Total    | mg/kg | 7.40E-01 | 7.24E-09  | 9.53E-08 | 7.88E-09   |                   |
| 195  | 17 | Surface | Silver        | mg/kg | 1.01E+01 | 9.92E-08  | 3.73E-07 | 6.40E-11   |                   |
| 195  | 17 | Surface | Thallium      | mg/kg | 5.40E-01 | 5.28E-09  | 2.48E-08 | 3.41E-12   |                   |
| 195  | 17 | Surface | Total PAH     | mg/kg | 3.16E-01 | 3.09E-09  | 3.78E-08 | 1.47E-10   |                   |
| 195  | 17 | Surface | Uranium-235   | pCi/g | 1.32E-01 | 2.31E+00  |          | 1.49E-03   | 3.38E-02          |
| 195  | 17 | Surface | Uranium-238   | pCi/g | 2.48E+00 | 4.34E+01  |          | 2.80E-02   | 6.34E-01          |
| 486  | 1  | Surface | Cesium-137    | pCi/g | 1.71E+00 | 2.99E+01  |          | 1.93E-02   | 4.37E-01          |
| 487  | 1  | Surface | Cesium-137    | pCi/g | 1.38E+00 | 2.42E+01  |          | 1.56E-02   | 3.53E-01          |
| 492  | 1  | Surface | Arsenic       | mg/kg | 1.47E+01 | 1.44E-07  | 4.06E-07 | 9.28E-11   |                   |
| 492  | 1  | Surface | Beryllium     | mg/kg | 1.04E+01 | 1.02E-07  | 6.70E-08 | 6.57E-11   |                   |
| 492  | 1  | Surface | Cadmium       | mg/kg | 3.14E+00 | 3.07E-08  | 2.89E-09 | 1.98E-11   |                   |
| 492  | 1  | Surface | Chromium      | mg/kg | 1.04E+03 | 1.02E-05  | 4.78E-05 | 6.57E-09   |                   |
| 492  | 1  | Surface | PCB, Total    | mg/kg | 4.41E+01 | 4.32E-07  | 5.68E-06 | 4.69E-07   |                   |
| 492  | 1  | Surface | Uranium       | mg/kg | 1.77E+03 | 1.73E-05  | 8.14E-05 | 1.12E-08   |                   |
| 492  | 1  | Surface | Vanadium      | mg/kg | 4.32E+01 | 4.23E-07  | 1.03E-06 | 2.73E-10   |                   |
| 492  | 1  | Surface | Cobalt-60     | pCi/g | 9.63E-03 | 1.69E-01  |          | 1.09E-04   | 2.46E-03          |
| 492  | 1  | Surface | Neptunium-237 | pCi/g | 2.09E-01 | 3.66E+00  |          | 2.36E-03   | 5.34E-02          |
| 492  | 1  | Surface | Uranium-234   | pCi/g | 5.39E+01 | 9.43E+02  |          | 6.09E-01   | 1.38E+01          |
| 492  | 1  | Surface | Uranium-235   | pCi/g | 5.72E+00 | 1.00E+02  |          | 6.46E-02   | 1.46E+00          |
| 492  | 1  | Surface | Uranium-238   | pCi/g | 3.83E+02 | 6.70E+03  |          | 4.32E+00   | 9.79E+01          |
| 493  | 1  | Surface | Aluminum      | mg/kg | 1.44E+04 | 1.41E-04  | 6.62E-04 | 9.09E-08   |                   |
| 493  | 1  | Surface | Barium        | mg/kg | 4.04E+02 | 3.95E-06  | 1.86E-05 | 2.55E-09   |                   |
| 493  | 1  | Surface | Beryllium     | mg/kg | 9.91E-01 | 9.70E-09  | 6.38E-09 | 6.26E-12   |                   |
| 493  | 1  | Surface | Chromium      | mg/kg | 6.61E+01 | 6.47E-07  | 3.04E-06 | 4.17E-10   |                   |
| 493  | 1  | Surface | Cobalt        | mg/kg | 3.79E+01 | 3.71E-07  | 1.74E-06 | 2.39E-10   |                   |
| 493  | 1  | Surface | Manganese     | mg/kg | 3.55E+03 | 3.47E-05  | 1.31E-04 | 2.24E-08   |                   |
| 493  | 1  | Surface | Mercury       | mg/kg | 2.60E-01 | 2.54E-09  | 1.20E-08 | 4.89E-08   |                   |
| 493  | 1  | Surface | Nickel        | mg/kg | 2.13E+02 | 2.08E-06  | 7.84E-06 | 1.34E-09   |                   |
| 493  | 1  | Surface | PCB, Total    | mg/kg | 2.60E-01 | 2.54E-09  | 3.35E-08 | 2.77E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 493  | 1  | Surface | Total PAH     | mg/kg | 5.00E-01 | 4.89E-09  | 5.98E-08 | 2.33E-10   |                   |
| 493  | 1  | Surface | Vanadium      | mg/kg | 4.05E+01 | 3.96E-07  | 9.69E-07 | 2.56E-10   |                   |
| 493  | 1  | Surface | Cobalt-60     | pCi/g | 1.36E-02 | 2.38E-01  |          | 1.54E-04   | 3.48E-03          |
| 493  | 1  | Surface | Neptunium-237 | pCi/g | 1.22E-01 | 2.14E+00  |          | 1.38E-03   | 3.12E-02          |
| 493  | 1  | Surface | Uranium-235   | pCi/g | 1.65E-01 | 2.89E+00  |          | 1.86E-03   | 4.22E-02          |
| 493  | 1  | Surface | Uranium-238   | pCi/g | 5.50E+00 | 9.63E+01  |          | 6.21E-02   | 1.41E+00          |
| 517  | 1  | Surface | Beryllium     | mg/kg | 7.39E-01 | 7.23E-09  | 4.76E-09 | 4.67E-12   |                   |
| 517  | 1  | Surface | Chromium      | mg/kg | 4.91E+01 | 4.80E-07  | 2.26E-06 | 3.10E-10   |                   |
| 517  | 1  | Surface | Nickel        | mg/kg | 1.72E+02 | 1.68E-06  | 6.33E-06 | 1.09E-09   |                   |
| 517  | 1  | Surface | PCB, Total    | mg/kg | 5.00E-01 | 4.89E-09  | 6.44E-08 | 5.32E-09   |                   |
| 517  | 1  | Surface | Cobalt-60     | pCi/g | 6.39E-03 | 1.12E-01  |          | 7.21E-05   | 1.63E-03          |
| 517  | 1  | Surface | Neptunium-237 | pCi/g | 1.07E+00 | 1.87E+01  |          | 1.21E-02   | 2.74E-01          |
| 517  | 1  | Surface | Uranium-235   | pCi/g | 1.60E-01 | 2.80E+00  |          | 1.81E-03   | 4.09E-02          |
| 517  | 1  | Surface | Uranium-238   | pCi/g | 3.89E+00 | 6.81E+01  |          | 4.39E-02   | 9.95E-01          |
| 541  | 1  | Surface | Aluminum      | mg/kg | 1.43E+04 | 1.40E-04  | 6.57E-04 | 9.02E-08   |                   |
| 541  | 1  | Surface | Barium        | mg/kg | 1.28E+02 | 1.25E-06  | 5.89E-06 | 8.08E-10   |                   |
| 541  | 1  | Surface | Beryllium     | mg/kg | 6.98E-01 | 6.83E-09  | 4.49E-09 | 4.41E-12   |                   |
| 541  | 1  | Surface | Cadmium       | mg/kg | 1.68E+00 | 1.65E-08  | 1.55E-09 | 1.06E-11   |                   |
| 541  | 1  | Surface | Chromium      | mg/kg | 8.24E+02 | 8.06E-06  | 3.79E-05 | 5.20E-09   |                   |
| 541  | 1  | Surface | Iron          | mg/kg | 1.60E+04 | 1.56E-04  | 7.34E-04 | 1.01E-07   |                   |
| 541  | 1  | Surface | Mercury       | mg/kg | 9.81E-02 | 9.60E-10  | 4.51E-09 | 1.85E-08   |                   |
| 541  | 1  | Surface | Naphthalene   | mg/kg | 6.55E-01 | 6.41E-09  | 1.51E-07 | 1.38E-07   |                   |
| 541  | 1  | Surface | Nickel        | mg/kg | 1.52E+01 | 1.49E-07  | 5.61E-07 | 9.62E-11   |                   |
| 541  | 1  | Surface | PCB, Total    | mg/kg | 6.06E+01 | 5.93E-07  | 7.80E-06 | 6.45E-07   |                   |
| 541  | 1  | Surface | Total PAH     | mg/kg | 2.33E+00 | 2.28E-08  | 2.78E-07 | 1.09E-09   |                   |
| 541  | 1  | Surface | Uranium       | mg/kg | 6.38E+03 | 6.25E-05  | 2.94E-04 | 4.03E-08   |                   |
| 541  | 1  | Surface | Vanadium      | mg/kg | 3.04E+01 | 2.98E-07  | 7.28E-07 | 1.92E-10   |                   |
| 541  | 1  | Surface | Americium-241 | pCi/g | 7.53E+00 | 1.32E+02  |          | 8.50E-02   | 1.93E+00          |
| 541  | 1  | Surface | Cesium-137    | pCi/g | 9.58E-01 | 1.68E+01  |          | 1.08E-02   | 2.45E-01          |
| 541  | 1  | Surface | Cobalt-60     | pCi/g | 1.01E-02 | 1.77E-01  |          | 1.14E-04   | 2.58E-03          |
| 541  | 1  | Surface | Neptunium-237 | pCi/g | 5.52E-02 | 9.66E-01  |          | 6.23E-04   | 1.41E-02          |
| 541  | 1  | Surface | Uranium-234   | pCi/g | 1.43E+02 | 2.50E+03  |          | 1.61E+00   | 3.65E+01          |
| 541  | 1  | Surface | Uranium-235   | pCi/g | 1.76E+01 | 3.07E+02  |          | 1.98E-01   | 4.49E+00          |
| 541  | 1  | Surface | Uranium-238   | pCi/g | 1.00E+03 | 1.75E+04  |          | 1.13E+01   | 2.56E+02          |
| 561  | 1  | Surface | Antimony      | mg/kg | 9.36E-01 | 9.16E-09  | 4.30E-08 | 5.91E-12   |                   |
| 561  | 1  | Surface | Arsenic       | mg/kg | 1.66E+01 | 1.62E-07  | 4.57E-07 | 1.04E-10   |                   |
| 561  | 1  | Surface | Barium        | mg/kg | 1.40E+02 | 1.37E-06  | 6.45E-06 | 8.85E-10   |                   |
| 561  | 1  | Surface | Beryllium     | mg/kg | 6.85E-01 | 6.70E-09  | 4.41E-09 | 4.32E-12   |                   |
| 561  | 1  | Surface | Chromium      | mg/kg | 8.58E+01 | 8.39E-07  | 3.94E-06 | 5.42E-10   |                   |
| 561  | 1  | Surface | Cobalt        | mg/kg | 1.07E+01 | 1.05E-07  | 4.92E-07 | 6.75E-11   |                   |
| 561  | 1  | Surface | Iron          | mg/kg | 2.05E+04 | 2.00E-04  | 9.41E-04 | 1.29E-07   |                   |
| 561  | 1  | Surface | Manganese     | mg/kg | 1.61E+03 | 1.57E-05  | 5.92E-05 | 1.02E-08   |                   |
| 561  | 1  | Surface | PCB, Total    | mg/kg | 1.04E+00 | 1.02E-08  | 1.34E-07 | 1.11E-08   |                   |
| 561  | 1  | Surface | Thallium      | mg/kg | 3.33E-01 | 3.26E-09  | 1.53E-08 | 2.10E-12   |                   |
| 561  | 1  | Surface | Total PAH     | mg/kg | 3.94E-01 | 3.86E-09  | 4.71E-08 | 1.84E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 561  | 1  | Surface | Uranium           | mg/kg | 2.65E+02 | 2.59E-06  | 1.22E-05 | 1.67E-09   |                   |
| 561  | 1  | Surface | Vanadium          | mg/kg | 3.76E+01 | 3.68E-07  | 9.00E-07 | 2.38E-10   |                   |
| 561  | 1  | Surface | Cobalt-60         | pCi/g | 7.06E-02 | 1.24E+00  |          | 7.97E-04   | 1.81E-02          |
| 561  | 1  | Surface | Neptunium-237     | pCi/g | 2.71E-02 | 4.74E-01  |          | 3.06E-04   | 6.93E-03          |
| 561  | 1  | Surface | Uranium-234       | pCi/g | 7.84E+00 | 1.37E+02  |          | 8.85E-02   | 2.00E+00          |
| 561  | 1  | Surface | Uranium-235       | pCi/g | 1.37E+00 | 2.39E+01  |          | 1.54E-02   | 3.49E-01          |
| 561  | 1  | Surface | Uranium-238       | pCi/g | 1.07E+02 | 1.86E+03  |          | 1.20E+00   | 2.72E+01          |
| 561  | 2  | Surface | Antimony          | mg/kg | 5.33E+00 | 5.22E-08  | 2.45E-07 | 3.37E-11   |                   |
| 561  | 2  | Surface | Arsenic           | mg/kg | 1.30E+01 | 1.27E-07  | 3.59E-07 | 8.21E-11   |                   |
| 561  | 2  | Surface | Beryllium         | mg/kg | 6.34E-01 | 6.20E-09  | 4.08E-09 | 4.00E-12   |                   |
| 561  | 2  | Surface | Cadmium           | mg/kg | 4.13E-01 | 4.04E-09  | 3.80E-10 | 2.61E-12   |                   |
| 561  | 2  | Surface | Chromium          | mg/kg | 2.88E+02 | 2.82E-06  | 1.33E-05 | 1.82E-09   |                   |
| 561  | 2  | Surface | Cobalt            | mg/kg | 1.14E+01 | 1.12E-07  | 5.24E-07 | 7.20E-11   |                   |
| 561  | 2  | Surface | Manganese         | mg/kg | 1.12E+03 | 1.09E-05  | 4.10E-05 | 7.04E-09   |                   |
| 561  | 2  | Surface | PCB, Total        | mg/kg | 1.64E+01 | 1.61E-07  | 2.11E-06 | 1.75E-07   |                   |
| 561  | 2  | Surface | Thallium          | mg/kg | 4.09E-01 | 4.00E-09  | 1.88E-08 | 2.58E-12   |                   |
| 561  | 2  | Surface | Total PAH         | mg/kg | 2.43E+00 | 2.38E-08  | 2.91E-07 | 1.13E-09   |                   |
| 561  | 2  | Surface | Uranium           | mg/kg | 1.38E+03 | 1.35E-05  | 6.36E-05 | 8.73E-09   |                   |
| 561  | 2  | Surface | Vanadium          | mg/kg | 3.46E+01 | 3.38E-07  | 8.26E-07 | 2.18E-10   |                   |
| 561  | 2  | Surface | Cesium-137        | pCi/g | 4.09E-01 | 7.16E+00  |          | 4.62E-03   | 1.05E-01          |
| 561  | 2  | Surface | Cobalt-60         | pCi/g | 2.76E-02 | 4.83E-01  |          | 3.12E-04   | 7.06E-03          |
| 561  | 2  | Surface | Neptunium-237     | pCi/g | 4.71E-02 | 8.24E-01  |          | 5.32E-04   | 1.20E-02          |
| 561  | 2  | Surface | Uranium-234       | pCi/g | 4.06E+01 | 7.11E+02  |          | 4.59E-01   | 1.04E+01          |
| 561  | 2  | Surface | Uranium-235       | pCi/g | 7.09E+00 | 1.24E+02  |          | 8.01E-02   | 1.81E+00          |
| 561  | 2  | Surface | Uranium-238       | pCi/g | 4.00E+02 | 7.01E+03  |          | 4.52E+00   | 1.02E+02          |
| 562  | 1  | Surface | Uranium           | mg/kg | 8.73E+01 | 8.54E-07  | 4.02E-06 | 5.51E-10   |                   |
| 562  | 1  | Surface | Uranium-238       | pCi/g | 2.73E+00 | 4.78E+01  |          | 3.08E-02   | 6.98E-01          |
| 562  | 2  | Surface | PCB, Total        | mg/kg | 1.58E+00 | 1.55E-08  | 2.03E-07 | 1.68E-08   |                   |
| 562  | 2  | Surface | Protactinium-234m | pCi/g | 2.76E+02 | 4.83E+03  |          | 3.11E+00   | 7.05E+01          |
| 562  | 2  | Surface | Uranium-234       | pCi/g | 5.34E+01 | 9.35E+02  |          | 6.03E-01   | 1.37E+01          |
| 562  | 2  | Surface | Uranium-235       | pCi/g | 8.96E+00 | 1.57E+02  |          | 1.01E-01   | 2.29E+00          |
| 562  | 2  | Surface | Uranium-238       | pCi/g | 5.81E+02 | 1.02E+04  |          | 6.56E+00   | 1.49E+02          |
| 562  | 3  | Surface | Chromium          | mg/kg | 3.82E+01 | 3.73E-07  | 1.75E-06 | 2.41E-10   |                   |
| 562  | 3  | Surface | PCB, Total        | mg/kg | 2.40E-01 | 2.35E-09  | 3.09E-08 | 2.55E-09   |                   |
| 562  | 3  | Surface | Total PAH         | mg/kg | 2.20E-01 | 2.15E-09  | 2.63E-08 | 1.03E-10   |                   |
| 562  | 3  | Surface | Uranium           | mg/kg | 5.89E+01 | 5.76E-07  | 2.71E-06 | 3.72E-10   |                   |
| 562  | 3  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 2.85E+00  |          | 1.84E-03   | 4.17E-02          |
| 562  | 3  | Surface | Uranium-238       | pCi/g | 1.09E+01 | 1.91E+02  |          | 1.23E-01   | 2.79E+00          |
| 562  | 4  | Surface | Chromium          | mg/kg | 4.67E+01 | 4.57E-07  | 2.15E-06 | 2.95E-10   |                   |
| 562  | 4  | Surface | Uranium           | mg/kg | 2.10E+01 | 2.05E-07  | 9.65E-07 | 1.33E-10   |                   |
| 562  | 4  | Surface | Uranium-238       | pCi/g | 2.24E+00 | 3.92E+01  |          | 2.53E-02   | 5.73E-01          |
| 562  | 5  | Surface | Chromium          | mg/kg | 1.53E+02 | 1.50E-06  | 7.04E-06 | 9.67E-10   |                   |
| 562  | 5  | Surface | PCB, Total        | mg/kg | 9.50E-01 | 9.30E-09  | 1.22E-07 | 1.01E-08   |                   |
| 562  | 5  | Surface | Total PAH         | mg/kg | 7.05E-02 | 6.90E-10  | 8.43E-09 | 3.29E-11   |                   |
| 562  | 5  | Surface | Uranium           | mg/kg | 2.08E+02 | 2.04E-06  | 9.57E-06 | 1.31E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 562  | 5  | Surface | Uranium-234       | pCi/g | 8.57E+00 | 1.50E+02  |          | 9.68E-02   | 2.19E+00          |
| 562  | 5  | Surface | Uranium-235       | pCi/g | 9.50E-01 | 1.66E+01  |          | 1.07E-02   | 2.43E-01          |
| 562  | 5  | Surface | Uranium-238       | pCi/g | 6.24E+01 | 1.09E+03  |          | 7.05E-01   | 1.60E+01          |
| 562  | 6  | Surface | Protactinium-234m | pCi/g | 3.66E+02 | 6.41E+03  |          | 4.13E+00   | 9.36E+01          |
| 562  | 6  | Surface | Uranium-234       | pCi/g | 4.01E+01 | 7.02E+02  |          | 4.53E-01   | 1.03E+01          |
| 562  | 6  | Surface | Uranium-235       | pCi/g | 6.81E+00 | 1.19E+02  |          | 7.69E-02   | 1.74E+00          |
| 562  | 6  | Surface | Uranium-238       | pCi/g | 3.62E+02 | 6.33E+03  |          | 4.08E+00   | 9.25E+01          |
| 563  | 1  | Surface | Cadmium           | mg/kg | 8.96E-01 | 8.77E-09  | 8.24E-10 | 5.66E-12   |                   |
| 563  | 1  | Surface | Chromium          | mg/kg | 2.85E+02 | 2.79E-06  | 1.31E-05 | 1.80E-09   |                   |
| 563  | 1  | Surface | PCB, Total        | mg/kg | 7.40E-01 | 7.24E-09  | 9.53E-08 | 7.88E-09   |                   |
| 563  | 1  | Surface | Uranium           | mg/kg | 1.51E+01 | 1.48E-07  | 6.94E-07 | 9.53E-11   |                   |
| 563  | 1  | Surface | Uranium-238       | pCi/g | 2.76E+00 | 4.83E+01  |          | 3.12E-02   | 7.06E-01          |
| 563  | 2  | Surface | Cesium-137        | pCi/g | 6.47E-01 | 1.13E+01  |          | 7.30E-03   | 1.65E-01          |
| 563  | 2  | Surface | Uranium-238       | pCi/g | 1.49E+00 | 2.61E+01  |          | 1.68E-02   | 3.81E-01          |
| 564  | 1  | Surface | Arsenic           | mg/kg | 4.30E+01 | 4.21E-07  | 1.19E-06 | 2.71E-10   |                   |
| 564  | 1  | Surface | Beryllium         | mg/kg | 2.12E+00 | 2.07E-08  | 1.36E-08 | 1.34E-11   |                   |
| 564  | 1  | Surface | Cadmium           | mg/kg | 1.96E+00 | 1.92E-08  | 1.80E-09 | 1.24E-11   |                   |
| 564  | 1  | Surface | Chromium          | mg/kg | 7.49E+01 | 7.33E-07  | 3.45E-06 | 4.73E-10   |                   |
| 564  | 1  | Surface | Iron              | mg/kg | 3.66E+04 | 3.58E-04  | 1.68E-03 | 2.31E-07   |                   |
| 564  | 1  | Surface | Mercury           | mg/kg | 2.30E-01 | 2.25E-09  | 1.06E-08 | 4.33E-08   |                   |
| 564  | 1  | Surface | Nickel            | mg/kg | 2.24E+01 | 2.19E-07  | 8.24E-07 | 1.41E-10   |                   |
| 564  | 1  | Surface | PCB, Total        | mg/kg | 1.93E+00 | 1.89E-08  | 2.49E-07 | 2.05E-08   |                   |
| 564  | 1  | Surface | Thallium          | mg/kg | 2.36E+00 | 2.31E-08  | 1.09E-07 | 1.49E-11   |                   |
| 564  | 1  | Surface | Uranium           | mg/kg | 5.83E+01 | 5.70E-07  | 2.68E-06 | 3.68E-10   |                   |
| 564  | 1  | Surface | Vanadium          | mg/kg | 8.06E+01 | 7.89E-07  | 1.93E-06 | 5.09E-10   |                   |
| 564  | 1  | Surface | Cesium-137        | pCi/g | 6.20E-01 | 1.09E+01  |          | 7.00E-03   | 1.59E-01          |
| 564  | 1  | Surface | Thorium-230       | pCi/g | 5.01E+00 | 8.77E+01  |          | 5.66E-02   | 1.28E+00          |
| 564  | 1  | Surface | Uranium-234       | pCi/g | 6.93E+00 | 1.21E+02  |          | 7.82E-02   | 1.77E+00          |
| 564  | 1  | Surface | Uranium-235       | pCi/g | 3.87E-01 | 6.77E+00  |          | 4.37E-03   | 9.90E-02          |
| 564  | 1  | Surface | Uranium-238       | pCi/g | 8.33E+00 | 1.46E+02  |          | 9.40E-02   | 2.13E+00          |
| 567  | 3  | Surface | Chromium          | mg/kg | 3.79E+01 | 3.71E-07  | 1.74E-06 | 2.39E-10   |                   |
| 567  | 4  | Surface | Aluminum          | mg/kg | 1.25E+04 | 1.23E-04  | 5.76E-04 | 7.90E-08   |                   |
| 567  | 4  | Surface | Chromium          | mg/kg | 1.63E+01 | 1.59E-07  | 7.50E-07 | 1.03E-10   |                   |
| 567  | 4  | Surface | Uranium-238       | pCi/g | 1.05E+00 | 1.84E+01  |          | 1.18E-02   | 2.68E-01          |
| 14   | 1  | Surface | Arsenic           | mg/kg | 1.10E+01 | 1.07E-07  | 3.03E-07 | 6.93E-11   |                   |
| 14   | 1  | Surface | Chromium          | mg/kg | 6.36E+01 | 6.22E-07  | 2.92E-06 | 4.01E-10   |                   |
| 14   | 1  | Surface | Iron              | mg/kg | 1.89E+04 | 1.85E-04  | 8.67E-04 | 1.19E-07   |                   |
| 14   | 1  | Surface | Nickel            | mg/kg | 1.40E+02 | 1.37E-06  | 5.14E-06 | 8.82E-10   |                   |
| 14   | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 4.89E-09  | 6.44E-08 | 5.32E-09   |                   |
| 14   | 1  | Surface | Silver            | mg/kg | 1.67E+01 | 1.63E-07  | 6.14E-07 | 1.05E-10   |                   |
| 14   | 1  | Surface | Uranium           | mg/kg | 7.21E+01 | 7.06E-07  | 3.32E-06 | 4.55E-10   |                   |
| 14   | 1  | Surface | Americium-241     | pCi/g | 1.27E+00 | 2.22E+01  |          | 1.43E-02   | 3.24E-01          |
| 14   | 1  | Surface | Neptunium-237     | pCi/g | 2.14E-01 | 3.75E+00  |          | 2.42E-03   | 5.47E-02          |
| 14   | 1  | Surface | Technetium-99     | pCi/g | 4.06E+02 | 7.11E+03  |          | 4.58E+00   | 1.04E+02          |
| 14   | 1  | Surface | Uranium-238       | pCi/g | 1.69E+00 | 2.96E+01  |          | 1.91E-02   | 4.32E-01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 2  | Surface | Antimony      | mg/kg | 3.70E+00 | 3.62E-08  | 1.70E-07 | 2.34E-11   |                   |
| 14   | 2  | Surface | Arsenic       | mg/kg | 1.45E+01 | 1.42E-07  | 4.01E-07 | 9.17E-11   |                   |
| 14   | 2  | Surface | Beryllium     | mg/kg | 7.10E-01 | 6.95E-09  | 4.57E-09 | 4.48E-12   |                   |
| 14   | 2  | Surface | Chromium      | mg/kg | 6.65E+01 | 6.51E-07  | 3.06E-06 | 4.20E-10   |                   |
| 14   | 2  | Surface | Copper        | mg/kg | 1.76E+02 | 1.73E-06  | 8.11E-06 | 1.11E-09   |                   |
| 14   | 2  | Surface | Iron          | mg/kg | 3.72E+04 | 3.64E-04  | 1.71E-03 | 2.35E-07   |                   |
| 14   | 2  | Surface | Manganese     | mg/kg | 1.44E+03 | 1.41E-05  | 5.31E-05 | 9.10E-09   |                   |
| 14   | 2  | Surface | Mercury       | mg/kg | 2.67E-01 | 2.61E-09  | 1.23E-08 | 5.02E-08   |                   |
| 14   | 2  | Surface | Nickel        | mg/kg | 6.78E+02 | 6.63E-06  | 2.49E-05 | 4.28E-09   |                   |
| 14   | 2  | Surface | PCB, Total    | mg/kg | 3.90E-01 | 3.82E-09  | 5.02E-08 | 4.15E-09   |                   |
| 14   | 2  | Surface | Total PAH     | mg/kg | 3.38E-01 | 3.31E-09  | 4.04E-08 | 1.58E-10   |                   |
| 14   | 2  | Surface | Uranium       | mg/kg | 2.93E+02 | 2.87E-06  | 1.35E-05 | 1.85E-09   |                   |
| 14   | 2  | Surface | Neptunium-237 | pCi/g | 7.70E-01 | 1.35E+01  |          | 8.69E-03   | 1.97E-01          |
| 14   | 2  | Surface | Thorium-230   | pCi/g | 5.98E+00 | 1.05E+02  |          | 6.75E-02   | 1.53E+00          |
| 14   | 2  | Surface | Uranium-234   | pCi/g | 3.24E+01 | 5.67E+02  |          | 3.66E-01   | 8.28E+00          |
| 14   | 2  | Surface | Uranium-235   | pCi/g | 2.00E+00 | 3.50E+01  |          | 2.26E-02   | 5.11E-01          |
| 14   | 2  | Surface | Uranium-238   | pCi/g | 5.61E+01 | 9.82E+02  |          | 6.33E-01   | 1.43E+01          |
| 14   | 3  | Surface | Arsenic       | mg/kg | 1.30E+01 | 1.27E-07  | 3.58E-07 | 8.19E-11   |                   |
| 14   | 3  | Surface | Chromium      | mg/kg | 7.01E+01 | 6.86E-07  | 3.23E-06 | 4.43E-10   |                   |
| 14   | 3  | Surface | Copper        | mg/kg | 1.29E+02 | 1.27E-06  | 5.95E-06 | 8.16E-10   |                   |
| 14   | 3  | Surface | Iron          | mg/kg | 3.48E+04 | 3.41E-04  | 1.60E-03 | 2.20E-07   |                   |
| 14   | 3  | Surface | Manganese     | mg/kg | 1.06E+03 | 1.03E-05  | 3.89E-05 | 6.67E-09   |                   |
| 14   | 3  | Surface | Mercury       | mg/kg | 7.48E+00 | 7.32E-08  | 3.44E-07 | 1.41E-06   |                   |
| 14   | 3  | Surface | Molybdenum    | mg/kg | 2.21E+01 | 2.16E-07  | 1.01E-06 | 1.39E-10   |                   |
| 14   | 3  | Surface | Nickel        | mg/kg | 5.76E+02 | 5.64E-06  | 2.12E-05 | 3.64E-09   |                   |
| 14   | 3  | Surface | PCB, Total    | mg/kg | 8.65E+00 | 8.46E-08  | 1.11E-06 | 9.20E-08   |                   |
| 14   | 3  | Surface | Uranium       | mg/kg | 2.18E+02 | 2.13E-06  | 1.00E-05 | 1.37E-09   |                   |
| 14   | 3  | Surface | Uranium-238   | pCi/g | 1.50E+00 | 2.63E+01  |          | 1.69E-02   | 3.84E-01          |
| 14   | 4  | Surface | Antimony      | mg/kg | 4.30E+00 | 4.21E-08  | 1.98E-07 | 2.71E-11   |                   |
| 14   | 4  | Surface | Arsenic       | mg/kg | 1.33E+01 | 1.30E-07  | 3.66E-07 | 8.38E-11   |                   |
| 14   | 4  | Surface | Chromium      | mg/kg | 7.20E+01 | 7.05E-07  | 3.31E-06 | 4.55E-10   |                   |
| 14   | 4  | Surface | Copper        | mg/kg | 3.54E+02 | 3.46E-06  | 1.63E-05 | 2.23E-09   |                   |
| 14   | 4  | Surface | Iron          | mg/kg | 3.88E+04 | 3.80E-04  | 1.79E-03 | 2.45E-07   |                   |
| 14   | 4  | Surface | Mercury       | mg/kg | 4.87E-01 | 4.77E-09  | 2.24E-08 | 9.16E-08   |                   |
| 14   | 4  | Surface | Nickel        | mg/kg | 7.31E+02 | 7.15E-06  | 2.69E-05 | 4.61E-09   |                   |
| 14   | 4  | Surface | PCB, Total    | mg/kg | 6.61E+00 | 6.46E-08  | 8.51E-07 | 7.03E-08   |                   |
| 14   | 4  | Surface | Silver        | mg/kg | 1.17E+01 | 1.14E-07  | 4.30E-07 | 7.39E-11   |                   |
| 14   | 4  | Surface | Total PAH     | mg/kg | 2.51E-01 | 2.45E-09  | 3.00E-08 | 1.17E-10   |                   |
| 14   | 4  | Surface | Uranium       | mg/kg | 3.72E+02 | 3.64E-06  | 1.71E-05 | 2.35E-09   |                   |
| 14   | 4  | Surface | Neptunium-237 | pCi/g | 2.68E+00 | 4.69E+01  |          | 3.03E-02   | 6.85E-01          |
| 14   | 4  | Surface | Thorium-230   | pCi/g | 8.33E+00 | 1.46E+02  |          | 9.40E-02   | 2.13E+00          |
| 14   | 4  | Surface | Uranium-234   | pCi/g | 1.13E+02 | 1.98E+03  |          | 1.28E+00   | 2.89E+01          |
| 14   | 4  | Surface | Uranium-235   | pCi/g | 8.00E+00 | 1.40E+02  |          | 9.03E-02   | 2.05E+00          |
| 14   | 4  | Surface | Uranium-238   | pCi/g | 1.69E+02 | 2.96E+03  |          | 1.91E+00   | 4.32E+01          |
| 14   | 5  | Surface | Antimony      | mg/kg | 2.30E+00 | 2.25E-08  | 1.06E-07 | 1.45E-11   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 5  | Surface | Arsenic       | mg/kg | 1.31E+01 | 1.28E-07  | 3.61E-07 | 8.26E-11   |                   |
| 14   | 5  | Surface | Cadmium       | mg/kg | 3.90E+00 | 3.82E-08  | 3.59E-09 | 2.46E-11   |                   |
| 14   | 5  | Surface | Chromium      | mg/kg | 4.70E+01 | 4.60E-07  | 2.16E-06 | 2.97E-10   |                   |
| 14   | 5  | Surface | Cobalt        | mg/kg | 1.40E+01 | 1.37E-07  | 6.44E-07 | 8.84E-11   |                   |
| 14   | 5  | Surface | Copper        | mg/kg | 1.34E+02 | 1.31E-06  | 6.14E-06 | 8.43E-10   |                   |
| 14   | 5  | Surface | Iron          | mg/kg | 3.92E+04 | 3.84E-04  | 1.80E-03 | 2.47E-07   |                   |
| 14   | 5  | Surface | Manganese     | mg/kg | 8.28E+02 | 8.10E-06  | 3.04E-05 | 5.22E-09   |                   |
| 14   | 5  | Surface | Mercury       | mg/kg | 1.09E+01 | 1.07E-07  | 5.03E-07 | 2.06E-06   |                   |
| 14   | 5  | Surface | Nickel        | mg/kg | 4.61E+02 | 4.51E-06  | 1.70E-05 | 2.91E-09   |                   |
| 14   | 5  | Surface | PCB, Total    | mg/kg | 1.00E+00 | 9.78E-09  | 1.29E-07 | 1.06E-08   |                   |
| 14   | 5  | Surface | Silver        | mg/kg | 1.29E+01 | 1.26E-07  | 4.73E-07 | 8.12E-11   |                   |
| 14   | 5  | Surface | Thallium      | mg/kg | 4.10E-01 | 4.01E-09  | 1.89E-08 | 2.59E-12   |                   |
| 14   | 5  | Surface | Total PAH     | mg/kg | 1.21E-01 | 1.18E-09  | 1.45E-08 | 5.65E-11   |                   |
| 14   | 5  | Surface | Uranium       | mg/kg | 2.62E+02 | 2.57E-06  | 1.21E-05 | 1.66E-09   |                   |
| 14   | 5  | Surface | Neptunium-237 | pCi/g | 1.74E+00 | 3.05E+01  |          | 1.96E-02   | 4.45E-01          |
| 14   | 5  | Surface | Technetium-99 | pCi/g | 1.01E+02 | 1.77E+03  |          | 1.14E+00   | 2.58E+01          |
| 14   | 5  | Surface | Thorium-230   | pCi/g | 1.39E+01 | 2.43E+02  |          | 1.57E-01   | 3.55E+00          |
| 14   | 5  | Surface | Uranium-234   | pCi/g | 5.22E+01 | 9.14E+02  |          | 5.89E-01   | 1.33E+01          |
| 14   | 5  | Surface | Uranium-235   | pCi/g | 3.33E+00 | 5.83E+01  |          | 3.76E-02   | 8.52E-01          |
| 14   | 5  | Surface | Uranium-238   | pCi/g | 9.42E+01 | 1.65E+03  |          | 1.06E+00   | 2.41E+01          |
| 14   | 6  | Surface | Antimony      | mg/kg | 2.70E+00 | 2.64E-08  | 1.24E-07 | 1.70E-11   |                   |
| 14   | 6  | Surface | Cadmium       | mg/kg | 8.40E-01 | 8.22E-09  | 7.73E-10 | 5.30E-12   |                   |
| 14   | 6  | Surface | Chromium      | mg/kg | 4.46E+02 | 4.36E-06  | 2.05E-05 | 2.81E-09   |                   |
| 14   | 6  | Surface | Copper        | mg/kg | 1.22E+02 | 1.20E-06  | 5.62E-06 | 7.72E-10   |                   |
| 14   | 6  | Surface | Mercury       | mg/kg | 3.47E-01 | 3.40E-09  | 1.60E-08 | 6.53E-08   |                   |
| 14   | 6  | Surface | Nickel        | mg/kg | 9.63E+02 | 9.43E-06  | 3.54E-05 | 6.08E-09   |                   |
| 14   | 6  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 4.89E-08  | 6.44E-07 | 5.32E-08   |                   |
| 14   | 6  | Surface | Silver        | mg/kg | 1.19E+01 | 1.16E-07  | 4.37E-07 | 7.50E-11   |                   |
| 14   | 6  | Surface | Uranium       | mg/kg | 5.79E+02 | 5.66E-06  | 2.66E-05 | 3.65E-09   |                   |
| 14   | 6  | Surface | Neptunium-237 | pCi/g | 2.65E+00 | 4.64E+01  |          | 2.99E-02   | 6.78E-01          |
| 14   | 6  | Surface | Uranium-234   | pCi/g | 3.41E+01 | 5.97E+02  |          | 3.85E-01   | 8.72E+00          |
| 14   | 6  | Surface | Uranium-235   | pCi/g | 2.27E+00 | 3.97E+01  |          | 2.56E-02   | 5.80E-01          |
| 14   | 6  | Surface | Uranium-238   | pCi/g | 5.08E+01 | 8.89E+02  |          | 5.74E-01   | 1.30E+01          |
| 14   | 7  | Surface | Antimony      | mg/kg | 7.50E-01 | 7.34E-09  | 3.45E-08 | 4.73E-12   |                   |
| 14   | 7  | Surface | Arsenic       | mg/kg | 1.13E+01 | 1.11E-07  | 3.12E-07 | 7.13E-11   |                   |
| 14   | 7  | Surface | Cadmium       | mg/kg | 2.70E+00 | 2.64E-08  | 2.48E-09 | 1.70E-11   |                   |
| 14   | 7  | Surface | Chromium      | mg/kg | 6.46E+01 | 6.32E-07  | 2.97E-06 | 4.08E-10   |                   |
| 14   | 7  | Surface | Mercury       | mg/kg | 7.82E+00 | 7.65E-08  | 3.60E-07 | 1.47E-06   |                   |
| 14   | 7  | Surface | Nickel        | mg/kg | 1.22E+03 | 1.20E-05  | 4.50E-05 | 7.72E-09   |                   |
| 14   | 7  | Surface | PCB, Total    | mg/kg | 7.60E+00 | 7.44E-08  | 9.79E-07 | 8.09E-08   |                   |
| 14   | 7  | Surface | Total PAH     | mg/kg | 6.31E-02 | 6.18E-10  | 7.55E-09 | 2.95E-11   |                   |
| 14   | 7  | Surface | Uranium       | mg/kg | 3.33E+02 | 3.26E-06  | 1.53E-05 | 2.10E-09   |                   |
| 14   | 7  | Surface | Neptunium-237 | pCi/g | 1.49E+00 | 2.61E+01  |          | 1.68E-02   | 3.81E-01          |
| 14   | 7  | Surface | Uranium-234   | pCi/g | 1.28E+01 | 2.24E+02  |          | 1.45E-01   | 3.27E+00          |
| 14   | 7  | Surface | Uranium-235   | pCi/g | 9.60E-01 | 1.68E+01  |          | 1.08E-02   | 2.45E-01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 7  | Surface | Uranium-238   | pCi/g | 2.13E+01 | 3.73E+02  |          | 2.40E-01   | 5.45E+00          |
| 14   | 8  | Surface | Antimony      | mg/kg | 6.10E-01 | 5.97E-09  | 2.81E-08 | 3.85E-12   |                   |
| 14   | 8  | Surface | Arsenic       | mg/kg | 1.14E+01 | 1.11E-07  | 3.14E-07 | 7.18E-11   |                   |
| 14   | 8  | Surface | Chromium      | mg/kg | 4.60E+01 | 4.50E-07  | 2.12E-06 | 2.91E-10   |                   |
| 14   | 8  | Surface | Mercury       | mg/kg | 7.90E+00 | 7.73E-08  | 3.63E-07 | 1.49E-06   |                   |
| 14   | 8  | Surface | Nickel        | mg/kg | 6.73E+02 | 6.58E-06  | 2.47E-05 | 4.25E-09   |                   |
| 14   | 8  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 4.89E-08  | 6.44E-07 | 5.32E-08   |                   |
| 14   | 8  | Surface | Silver        | mg/kg | 9.63E+00 | 9.42E-08  | 3.54E-07 | 6.08E-11   |                   |
| 14   | 8  | Surface | Total PAH     | mg/kg | 6.28E-02 | 6.14E-10  | 7.50E-09 | 2.93E-11   |                   |
| 14   | 8  | Surface | Uranium       | mg/kg | 3.35E+02 | 3.28E-06  | 1.54E-05 | 2.12E-09   |                   |
| 14   | 8  | Surface | Neptunium-237 | pCi/g | 8.80E-01 | 1.54E+01  |          | 9.94E-03   | 2.25E-01          |
| 14   | 8  | Surface | Uranium-235   | pCi/g | 2.38E-01 | 4.17E+00  |          | 2.69E-03   | 6.09E-02          |
| 14   | 8  | Surface | Uranium-238   | pCi/g | 5.92E+00 | 1.04E+02  |          | 6.68E-02   | 1.51E+00          |
| 14   | 9  | Surface | Antimony      | mg/kg | 2.00E+00 | 1.96E-08  | 9.20E-08 | 1.26E-11   |                   |
| 14   | 9  | Surface | Arsenic       | mg/kg | 1.40E+01 | 1.37E-07  | 3.87E-07 | 8.86E-11   |                   |
| 14   | 9  | Surface | Cadmium       | mg/kg | 9.40E-01 | 9.20E-09  | 8.65E-10 | 5.93E-12   |                   |
| 14   | 9  | Surface | Chromium      | mg/kg | 4.64E+01 | 4.54E-07  | 2.14E-06 | 2.93E-10   |                   |
| 14   | 9  | Surface | Mercury       | mg/kg | 1.13E+00 | 1.11E-08  | 5.20E-08 | 2.13E-07   |                   |
| 14   | 9  | Surface | Nickel        | mg/kg | 9.43E+02 | 9.23E-06  | 3.47E-05 | 5.96E-09   |                   |
| 14   | 9  | Surface | PCB, Total    | mg/kg | 6.84E+00 | 6.69E-08  | 8.81E-07 | 7.28E-08   |                   |
| 14   | 9  | Surface | Total PAH     | mg/kg | 4.87E-01 | 4.77E-09  | 5.83E-08 | 2.28E-10   |                   |
| 14   | 9  | Surface | Uranium       | mg/kg | 1.46E+03 | 1.43E-05  | 6.73E-05 | 9.24E-09   |                   |
| 14   | 9  | Surface | Cesium-137    | pCi/g | 4.53E-01 | 7.93E+00  |          | 5.11E-03   | 1.16E-01          |
| 14   | 9  | Surface | Neptunium-237 | pCi/g | 1.09E+01 | 1.91E+02  |          | 1.23E-01   | 2.79E+00          |
| 14   | 9  | Surface | Technetium-99 | pCi/g | 1.96E+02 | 3.43E+03  |          | 2.21E+00   | 5.01E+01          |
| 14   | 9  | Surface | Uranium-234   | pCi/g | 8.32E+02 | 1.46E+04  |          | 9.39E+00   | 2.13E+02          |
| 14   | 9  | Surface | Uranium-235   | pCi/g | 5.46E+01 | 9.55E+02  |          | 6.16E-01   | 1.39E+01          |
| 14   | 9  | Surface | Uranium-238   | pCi/g | 1.20E+03 | 2.10E+04  |          | 1.35E+01   | 3.07E+02          |
| 14   | 10 | Surface | Antimony      | mg/kg | 9.40E-01 | 9.20E-09  | 4.32E-08 | 5.93E-12   |                   |
| 14   | 10 | Surface | Arsenic       | mg/kg | 1.12E+01 | 1.10E-07  | 3.10E-07 | 7.10E-11   |                   |
| 14   | 10 | Surface | Chromium      | mg/kg | 4.19E+01 | 4.09E-07  | 1.92E-06 | 2.64E-10   |                   |
| 14   | 10 | Surface | Copper        | mg/kg | 1.41E+02 | 1.38E-06  | 6.49E-06 | 8.91E-10   |                   |
| 14   | 10 | Surface | Iron          | mg/kg | 2.75E+04 | 2.69E-04  | 1.26E-03 | 1.73E-07   |                   |
| 14   | 10 | Surface | Mercury       | mg/kg | 2.51E+01 | 2.45E-07  | 1.15E-06 | 4.72E-06   |                   |
| 14   | 10 | Surface | Nickel        | mg/kg | 6.00E+02 | 5.87E-06  | 2.21E-05 | 3.79E-09   |                   |
| 14   | 10 | Surface | PCB, Total    | mg/kg | 9.38E+00 | 9.18E-08  | 1.21E-06 | 9.98E-08   |                   |
| 14   | 10 | Surface | Total PAH     | mg/kg | 2.72E-01 | 2.66E-09  | 3.25E-08 | 1.27E-10   |                   |
| 14   | 10 | Surface | Uranium       | mg/kg | 2.88E+02 | 2.82E-06  | 1.33E-05 | 1.82E-09   |                   |
| 14   | 10 | Surface | Neptunium-237 | pCi/g | 2.64E+00 | 4.62E+01  |          | 2.98E-02   | 6.75E-01          |
| 14   | 10 | Surface | Uranium-234   | pCi/g | 2.42E+01 | 4.24E+02  |          | 2.73E-01   | 6.19E+00          |
| 14   | 10 | Surface | Uranium-235   | pCi/g | 1.76E+00 | 3.08E+01  |          | 1.99E-02   | 4.50E-01          |
| 14   | 10 | Surface | Uranium-238   | pCi/g | 4.09E+01 | 7.16E+02  |          | 4.62E-01   | 1.05E+01          |
| 518  | 1  | Surface | Carbazole     | mg/kg | 1.17E+01 | 1.15E-07  | 1.08E-06 | 3.43E-08   |                   |
| 518  | 1  | Surface | Cobalt        | mg/kg | 6.80E+00 | 6.66E-08  | 3.13E-07 | 4.30E-11   |                   |
| 518  | 1  | Surface | Nickel        | mg/kg | 1.29E+01 | 1.26E-07  | 4.73E-07 | 8.12E-11   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 518  | 1  | Surface | PCB, Total    | mg/kg | 6.30E-01 | 6.16E-09  | 8.11E-08 | 6.70E-09   |                   |
| 518  | 1  | Surface | Pyrene        | mg/kg | 3.94E+01 | 3.86E-07  | 4.71E-06 | 1.64E-07   |                   |
| 518  | 1  | Surface | Total PAH     | mg/kg | 3.90E+01 | 3.81E-07  | 4.66E-06 | 1.82E-08   |                   |
| 518  | 1  | Surface | Uranium       | mg/kg | 2.17E+02 | 2.12E-06  | 9.98E-06 | 1.37E-09   |                   |
| 518  | 1  | Surface | Uranium-235   | pCi/g | 6.74E-02 | 1.18E+00  |          | 7.61E-04   | 1.72E-02          |
| 518  | 1  | Surface | Uranium-238   | pCi/g | 1.51E+00 | 2.65E+01  |          | 1.71E-02   | 3.87E-01          |
| 520  | 1  | Surface | Chromium      | mg/kg | 3.17E+01 | 3.10E-07  | 1.46E-06 | 2.00E-10   |                   |
| 520  | 1  | Surface | Iron          | mg/kg | 1.56E+04 | 1.53E-04  | 7.17E-04 | 9.84E-08   |                   |
| 520  | 1  | Surface | Mercury       | mg/kg | 1.07E+01 | 1.05E-07  | 4.91E-07 | 2.01E-06   |                   |
| 520  | 1  | Surface | Nickel        | mg/kg | 2.60E+02 | 2.55E-06  | 9.58E-06 | 1.64E-09   |                   |
| 520  | 1  | Surface | Silver        | mg/kg | 1.30E+01 | 1.27E-07  | 4.77E-07 | 8.19E-11   |                   |
| 520  | 1  | Surface | Total PAH     | mg/kg | 3.18E-02 | 3.12E-10  | 3.81E-09 | 1.49E-11   |                   |
| 520  | 1  | Surface | Uranium       | mg/kg | 2.29E+01 | 2.24E-07  | 1.05E-06 | 1.45E-10   |                   |
| 520  | 1  | Surface | Cesium-137    | pCi/g | 9.62E-01 | 1.68E+01  |          | 1.09E-02   | 2.46E-01          |
| 520  | 1  | Surface | Neptunium-237 | pCi/g | 6.56E-01 | 1.15E+01  |          | 7.41E-03   | 1.68E-01          |
| 520  | 1  | Surface | Thorium-230   | pCi/g | 1.13E+01 | 1.98E+02  |          | 1.28E-01   | 2.90E+00          |
| 520  | 1  | Surface | Uranium-235   | pCi/g | 1.26E-01 | 2.21E+00  |          | 1.42E-03   | 3.22E-02          |
| 520  | 1  | Surface | Uranium-238   | pCi/g | 3.93E+00 | 6.88E+01  |          | 4.44E-02   | 1.00E+00          |
| 520  | 2  | Surface | Beryllium     | mg/kg | 5.79E-01 | 5.67E-09  | 3.73E-09 | 3.66E-12   |                   |
| 520  | 2  | Surface | Chromium      | mg/kg | 6.67E+01 | 6.52E-07  | 3.07E-06 | 4.21E-10   |                   |
| 520  | 2  | Surface | Manganese     | mg/kg | 5.89E+02 | 5.77E-06  | 2.17E-05 | 3.72E-09   |                   |
| 520  | 2  | Surface | Mercury       | mg/kg | 1.19E+01 | 1.16E-07  | 5.46E-07 | 2.24E-06   |                   |
| 520  | 2  | Surface | Nickel        | mg/kg | 3.11E+02 | 3.04E-06  | 1.14E-05 | 1.96E-09   |                   |
| 520  | 2  | Surface | Total PAH     | mg/kg | 3.17E-01 | 3.10E-09  | 3.79E-08 | 1.48E-10   |                   |
| 520  | 2  | Surface | Uranium       | mg/kg | 3.96E+01 | 3.87E-07  | 1.82E-06 | 2.50E-10   |                   |
| 520  | 2  | Surface | Neptunium-237 | pCi/g | 7.48E-02 | 1.31E+00  |          | 8.45E-04   | 1.91E-02          |
| 520  | 2  | Surface | Uranium-238   | pCi/g | 1.78E+00 | 3.11E+01  |          | 2.01E-02   | 4.55E-01          |
| 520  | 3  | Surface | Chromium      | mg/kg | 3.97E+01 | 3.88E-07  | 1.82E-06 | 2.50E-10   |                   |
| 520  | 3  | Surface | Copper        | mg/kg | 1.19E+02 | 1.16E-06  | 5.47E-06 | 7.51E-10   |                   |
| 520  | 3  | Surface | Nickel        | mg/kg | 2.65E+02 | 2.59E-06  | 9.74E-06 | 1.67E-09   |                   |
| 520  | 3  | Surface | Silver        | mg/kg | 1.27E+01 | 1.24E-07  | 4.66E-07 | 8.00E-11   |                   |
| 520  | 3  | Surface | Total PAH     | mg/kg | 1.18E-01 | 1.16E-09  | 1.41E-08 | 5.51E-11   |                   |
| 520  | 3  | Surface | Uranium       | mg/kg | 1.92E+01 | 1.88E-07  | 8.84E-07 | 1.21E-10   |                   |
| 520  | 3  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 2.75E+01  |          | 1.77E-02   | 4.01E-01          |
| 520  | 4  | Surface | Chromium      | mg/kg | 3.82E+01 | 3.74E-07  | 1.76E-06 | 2.41E-10   |                   |
| 520  | 4  | Surface | Copper        | mg/kg | 1.11E+02 | 1.08E-06  | 5.09E-06 | 6.98E-10   |                   |
| 520  | 4  | Surface | Mercury       | mg/kg | 9.69E+00 | 9.48E-08  | 4.46E-07 | 1.82E-06   |                   |
| 520  | 4  | Surface | Nickel        | mg/kg | 2.82E+02 | 2.76E-06  | 1.04E-05 | 1.78E-09   |                   |
| 520  | 4  | Surface | Silver        | mg/kg | 1.04E+01 | 1.02E-07  | 3.84E-07 | 6.59E-11   |                   |
| 520  | 4  | Surface | Total PAH     | mg/kg | 5.52E-01 | 5.41E-09  | 6.61E-08 | 2.58E-10   |                   |
| 520  | 4  | Surface | Uranium       | mg/kg | 2.40E+01 | 2.35E-07  | 1.10E-06 | 1.52E-10   |                   |
| 520  | 4  | Surface | Neptunium-237 | pCi/g | 7.40E-01 | 1.30E+01  |          | 8.35E-03   | 1.89E-01          |
| 520  | 4  | Surface | Uranium-235   | pCi/g | 2.42E-01 | 4.24E+00  |          | 2.73E-03   | 6.19E-02          |
| 520  | 4  | Surface | Uranium-238   | pCi/g | 6.26E+00 | 1.10E+02  |          | 7.07E-02   | 1.60E+00          |
| 520  | 5  | Surface | Antimony      | mg/kg | 9.60E-01 | 9.39E-09  | 4.41E-08 | 6.06E-12   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.10. Noncancerous CDIs for the Current Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 520  | 5  | Surface | Chromium      | mg/kg | 3.68E+01 | 3.60E-07  | 1.69E-06 | 2.32E-10   |                   |
| 520  | 5  | Surface | Nickel        | mg/kg | 1.47E+02 | 1.44E-06  | 5.40E-06 | 9.27E-10   |                   |
| 520  | 5  | Surface | Total PAH     | mg/kg | 3.87E-01 | 3.79E-09  | 4.63E-08 | 1.81E-10   |                   |
| 520  | 5  | Surface | Neptunium-237 | pCi/g | 1.55E-01 | 2.71E+00  |          | 1.75E-03   | 3.96E-02          |
| 520  | 5  | Surface | Uranium-238   | pCi/g | 1.45E+00 | 2.54E+01  |          | 1.64E-02   | 3.71E-01          |
| 81   | 1  | Surface | Aluminum      | mg/kg | 9.57E+03 | 9.37E-05  | 4.40E-04 | 6.04E-08   |                   |
| 81   | 1  | Surface | Arsenic       | mg/kg | 1.03E+01 | 1.00E-07  | 2.83E-07 | 6.47E-11   |                   |
| 81   | 1  | Surface | Beryllium     | mg/kg | 7.57E-01 | 7.41E-09  | 4.87E-09 | 4.78E-12   |                   |
| 81   | 1  | Surface | Chromium      | mg/kg | 8.62E+01 | 8.43E-07  | 3.96E-06 | 5.44E-10   |                   |
| 81   | 1  | Surface | Mercury       | mg/kg | 8.33E+00 | 8.15E-08  | 3.83E-07 | 1.57E-06   |                   |
| 81   | 1  | Surface | Nickel        | mg/kg | 7.29E+01 | 7.13E-07  | 2.68E-06 | 4.60E-10   |                   |
| 81   | 1  | Surface | PCB, Total    | mg/kg | 1.60E+02 | 1.56E-06  | 2.06E-05 | 1.70E-06   |                   |
| 81   | 1  | Surface | Silver        | mg/kg | 2.70E+00 | 2.64E-08  | 9.93E-08 | 1.70E-11   |                   |
| 81   | 1  | Surface | Total PAH     | mg/kg | 5.53E-01 | 5.41E-09  | 6.61E-08 | 2.58E-10   |                   |
| 81   | 1  | Surface | Uranium       | mg/kg | 6.50E+03 | 6.36E-05  | 2.99E-04 | 4.10E-08   |                   |
| 81   | 1  | Surface | Uranium-238   | pCi/g | 2.29E+00 | 4.00E+01  |          | 2.58E-02   | 5.84E-01          |
| 153  | 1  | Surface | PCB, Total    | mg/kg | 5.09E-01 | 4.98E-09  | 6.55E-08 | 5.42E-09   |                   |
| 153  | 1  | Surface | Total PAH     | mg/kg | 8.69E-02 | 8.50E-10  | 1.04E-08 | 4.06E-11   |                   |
| 156  | 1  | Surface | Chromium      | mg/kg | 4.90E+01 | 4.80E-07  | 2.25E-06 | 3.10E-10   |                   |
| 156  | 1  | Surface | Manganese     | mg/kg | 2.83E+03 | 2.77E-05  | 1.04E-04 | 1.79E-08   |                   |
| 156  | 1  | Surface | Mercury       | mg/kg | 9.87E+00 | 9.66E-08  | 4.54E-07 | 1.86E-06   |                   |
| 156  | 1  | Surface | Nickel        | mg/kg | 6.16E+01 | 6.03E-07  | 2.27E-06 | 3.89E-10   |                   |
| 156  | 1  | Surface | PCB, Total    | mg/kg | 3.00E-01 | 2.94E-09  | 3.86E-08 | 3.19E-09   |                   |
| 156  | 1  | Surface | Total PAH     | mg/kg | 8.26E-02 | 8.08E-10  | 9.88E-09 | 3.86E-11   |                   |
| 156  | 1  | Surface | Uranium       | mg/kg | 2.32E+01 | 2.27E-07  | 1.07E-06 | 1.46E-10   |                   |
| 156  | 1  | Surface | Uranium-238   | pCi/g | 2.19E+00 | 3.83E+01  |          | 2.47E-02   | 5.60E-01          |
| 160  | 1  | Surface | Antimony      | mg/kg | 6.80E-01 | 6.65E-09  | 3.13E-08 | 4.29E-12   |                   |
| 160  | 1  | Surface | Total PAH     | mg/kg | 5.29E-02 | 5.18E-10  | 6.33E-09 | 2.47E-11   |                   |
| 163  | 1  | Surface | Chromium      | mg/kg | 4.94E+01 | 4.84E-07  | 2.27E-06 | 3.12E-10   |                   |
| 163  | 1  | Surface | Total PAH     | mg/kg | 1.63E-01 | 1.59E-09  | 1.95E-08 | 7.61E-11   |                   |
| 219  | 1  | Surface | Nickel        | mg/kg | 6.71E+01 | 6.57E-07  | 2.47E-06 | 4.24E-10   |                   |
| 219  | 1  | Surface | Total PAH     | mg/kg | 7.50E-02 | 7.34E-10  | 8.97E-09 | 3.50E-11   |                   |
| 219  | 1  | Surface | Neptunium-237 | pCi/g | 3.31E-01 | 5.79E+00  |          | 3.74E-03   | 8.46E-02          |
| 219  | 1  | Surface | Uranium-235   | pCi/g | 1.92E-01 | 3.36E+00  |          | 2.17E-03   | 4.91E-02          |
| 219  | 1  | Surface | Uranium-238   | pCi/g | 4.40E+00 | 7.70E+01  |          | 4.97E-02   | 1.13E+00          |
| 488  | 1  | Surface | PCB, Total    | mg/kg | 1.03E+01 | 1.01E-07  | 1.33E-06 | 1.10E-07   |                   |
| 488  | 1  | Surface | Total PAH     | mg/kg | 2.50E-01 | 2.44E-09  | 2.99E-08 | 1.17E-10   |                   |
| 488  | 1  | Surface | Uranium       | mg/kg | 1.48E+01 | 1.45E-07  | 6.81E-07 | 9.34E-11   |                   |
| 488  | 1  | Surface | Cesium-137    | pCi/g | 5.20E-01 | 9.10E+00  |          | 5.87E-03   | 1.33E-01          |
| 488  | 1  | Surface | Uranium-235   | pCi/g | 1.49E-01 | 2.61E+00  |          | 1.68E-03   | 3.81E-02          |
| 488  | 1  | Surface | Uranium-238   | pCi/g | 4.54E+00 | 7.95E+01  |          | 5.13E-02   | 1.16E+00          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 1           | 1         | Surface      | Beryllium   | mg/kg        | 3.89E+00   | 1.91E-06         | 1.25E-06      | 1.23E-09          |
| 1           | 1         | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 5.38E-07         | 5.06E-08      | 3.47E-10          |
| 1           | 1         | Surface      | Chromium    | mg/kg        | 1.28E+01   | 6.27E-06         | 2.95E-05      | 4.05E-09          |
| 1           | 1         | Surface      | PCB, Total  | mg/kg        | 1.76E-01   | 8.61E-08         | 1.13E-06      | 9.36E-08          |
| 1           | 2         | Surface      | Beryllium   | mg/kg        | 8.23E+00   | 4.03E-06         | 2.65E-06      | 2.60E-09          |
| 1           | 2         | Surface      | Cadmium     | mg/kg        | 6.46E+00   | 3.16E-06         | 2.97E-07      | 2.04E-09          |
| 1           | 2         | Surface      | Chromium    | mg/kg        | 2.01E+02   | 9.84E-05         | 4.63E-04      | 6.35E-08          |
| 1           | 2         | Surface      | Copper      | mg/kg        | 1.81E+02   | 8.85E-05         | 4.16E-04      | 5.71E-08          |
| 1           | 2         | Surface      | Mercury     | mg/kg        | 5.94E+00   | 2.91E-06         | 1.37E-05      | 5.59E-05          |
| 1           | 2         | Surface      | Nickel      | mg/kg        | 5.75E+01   | 2.81E-05         | 1.06E-04      | 1.81E-08          |
| 1           | 2         | Surface      | PCB, Total  | mg/kg        | 3.21E+01   | 1.57E-05         | 2.07E-04      | 1.71E-05          |
| 1           | 2         | Surface      | Silver      | mg/kg        | 3.31E+01   | 1.62E-05         | 6.10E-05      | 1.05E-08          |
| 1           | 2         | Surface      | Thallium    | mg/kg        | 3.70E-01   | 1.81E-07         | 8.51E-07      | 1.17E-10          |
| 1           | 2         | Surface      | Vanadium    | mg/kg        | 3.49E+01   | 1.71E-05         | 4.17E-05      | 1.10E-08          |
| 1           | 3         | Surface      | Chromium    | mg/kg        | 1.45E+01   | 7.08E-06         | 3.33E-05      | 4.57E-09          |
| 1           | 3         | Surface      | PCB, Total  | mg/kg        | 2.17E-01   | 1.06E-07         | 1.40E-06      | 1.15E-07          |
| 1           | 4         | Surface      | Beryllium   | mg/kg        | 7.25E-01   | 3.55E-07         | 2.33E-07      | 2.29E-10          |
| 1           | 4         | Surface      | Chromium    | mg/kg        | 9.30E+01   | 4.55E-05         | 2.14E-04      | 2.94E-08          |
| 1           | 4         | Surface      | Nickel      | mg/kg        | 4.69E+01   | 2.29E-05         | 8.62E-05      | 1.48E-08          |
| 1           | 4         | Surface      | PCB, Total  | mg/kg        | 1.30E-01   | 6.36E-08         | 8.37E-07      | 6.92E-08          |
| 1           | 5         | Surface      | Beryllium   | mg/kg        | 8.30E+00   | 4.06E-06         | 2.67E-06      | 2.62E-09          |
| 1           | 5         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 5.87E-07         | 5.52E-08      | 3.79E-10          |
| 1           | 5         | Surface      | Nickel      | mg/kg        | 4.07E+01   | 1.99E-05         | 7.49E-05      | 1.28E-08          |
| 1           | 5         | Surface      | PCB, Total  | mg/kg        | 2.70E-01   | 1.32E-07         | 1.74E-06      | 1.44E-07          |
| 1           | 5         | Surface      | Total PAH   | mg/kg        | 9.83E-02   | 4.81E-08         | 5.88E-07      | 2.29E-09          |
| 99          | 1         | Surface      | Chromium    | mg/kg        | 5.51E+01   | 2.70E-05         | 1.27E-04      | 1.74E-08          |
| 99          | 1         | Surface      | Mercury     | mg/kg        | 9.53E+00   | 4.66E-06         | 2.19E-05      | 8.97E-05          |
| 99          | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 3.43E-05         | 1.29E-04      | 2.22E-08          |
| 99          | 1         | Surface      | Silver      | mg/kg        | 1.03E+01   | 5.04E-06         | 1.89E-05      | 3.25E-09          |
| 194         | 1         | Surface      | Antimony    | mg/kg        | 1.50E+00   | 7.34E-07         | 3.45E-06      | 4.73E-10          |
| 194         | 1         | Surface      | Chromium    | mg/kg        | 3.87E+01   | 1.89E-05         | 8.90E-05      | 1.22E-08          |
| 194         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 3.28E-06         | 1.54E-05      | 6.31E-05          |
| 194         | 1         | Surface      | Nickel      | mg/kg        | 5.84E+01   | 2.86E-05         | 1.07E-04      | 1.84E-08          |
| 194         | 1         | Surface      | Silver      | mg/kg        | 1.09E+01   | 5.35E-06         | 2.01E-05      | 3.45E-09          |
| 194         | 2         | Surface      | Chromium    | mg/kg        | 5.96E+01   | 2.92E-05         | 1.37E-04      | 1.88E-08          |
| 194         | 2         | Surface      | Silver      | mg/kg        | 1.31E+01   | 6.42E-06         | 2.42E-05      | 4.14E-09          |
| 194         | 2         | Surface      | Uranium     | mg/kg        | 2.28E+01   | 1.11E-05         | 5.24E-05      | 7.19E-09          |
| 194         | 3         | Surface      | Antimony    | mg/kg        | 6.90E-01   | 3.38E-07         | 1.59E-06      | 2.18E-10          |
| 194         | 3         | Surface      | Arsenic     | mg/kg        | 1.46E+01   | 7.16E-06         | 2.02E-05      | 4.62E-09          |
| 194         | 3         | Surface      | Chromium    | mg/kg        | 3.90E+01   | 1.91E-05         | 8.96E-05      | 1.23E-08          |
| 194         | 3         | Surface      | Nickel      | mg/kg        | 6.40E+01   | 3.13E-05         | 1.18E-04      | 2.02E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 3         | Surface      | Total PAH   | mg/kg        | 3.93E-02   | 1.92E-08         | 2.35E-07      | 9.17E-10          |
| 194         | 4         | Surface      | Chromium    | mg/kg        | 4.84E+01   | 2.37E-05         | 1.11E-04      | 1.53E-08          |
| 194         | 4         | Surface      | Mercury     | mg/kg        | 8.92E+00   | 4.36E-06         | 2.05E-05      | 8.39E-05          |
| 194         | 4         | Surface      | Nickel      | mg/kg        | 6.91E+01   | 3.38E-05         | 1.27E-04      | 2.18E-08          |
| 194         | 4         | Surface      | Silver      | mg/kg        | 1.18E+01   | 5.76E-06         | 2.17E-05      | 3.72E-09          |
| 194         | 4         | Surface      | Total PAH   | mg/kg        | 7.30E-02   | 3.57E-08         | 4.36E-07      | 1.70E-09          |
| 194         | 5         | Surface      | Chromium    | mg/kg        | 4.58E+01   | 2.24E-05         | 1.05E-04      | 1.45E-08          |
| 194         | 5         | Surface      | Mercury     | mg/kg        | 8.69E+00   | 4.25E-06         | 2.00E-05      | 8.18E-05          |
| 194         | 5         | Surface      | Nickel      | mg/kg        | 7.54E+01   | 3.69E-05         | 1.39E-04      | 2.38E-08          |
| 194         | 5         | Surface      | Silver      | mg/kg        | 1.25E+01   | 6.09E-06         | 2.29E-05      | 3.93E-09          |
| 194         | 5         | Surface      | Total PAH   | mg/kg        | 2.37E-02   | 1.16E-08         | 1.42E-07      | 5.53E-10          |
| 194         | 6         | Surface      | Chromium    | mg/kg        | 3.70E+01   | 1.81E-05         | 8.51E-05      | 1.17E-08          |
| 194         | 6         | Surface      | Manganese   | mg/kg        | 1.08E+03   | 5.28E-04         | 1.99E-03      | 3.41E-07          |
| 194         | 6         | Surface      | Nickel      | mg/kg        | 8.06E+01   | 3.94E-05         | 1.48E-04      | 2.54E-08          |
| 194         | 6         | Surface      | Silver      | mg/kg        | 9.89E+00   | 4.84E-06         | 1.82E-05      | 3.12E-09          |
| 194         | 7         | Surface      | Chromium    | mg/kg        | 5.32E+01   | 2.60E-05         | 1.22E-04      | 1.68E-08          |
| 194         | 7         | Surface      | Nickel      | mg/kg        | 7.71E+01   | 3.77E-05         | 1.42E-04      | 2.43E-08          |
| 194         | 7         | Surface      | Silver      | mg/kg        | 1.25E+01   | 6.12E-06         | 2.30E-05      | 3.95E-09          |
| 194         | 8         | Surface      | Chromium    | mg/kg        | 5.36E+01   | 2.62E-05         | 1.23E-04      | 1.69E-08          |
| 194         | 8         | Surface      | Manganese   | mg/kg        | 8.00E+02   | 3.91E-04         | 1.47E-03      | 2.52E-07          |
| 194         | 8         | Surface      | Total PAH   | mg/kg        | 4.85E-01   | 2.37E-07         | 2.90E-06      | 1.13E-08          |
| 194         | 9         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 5.59E-06         | 1.58E-05      | 3.60E-09          |
| 194         | 9         | Surface      | Chromium    | mg/kg        | 5.17E+01   | 2.53E-05         | 1.19E-04      | 1.63E-08          |
| 194         | 10        | Surface      | Arsenic     | mg/kg        | 1.22E+01   | 5.95E-06         | 1.68E-05      | 3.84E-09          |
| 194         | 10        | Surface      | Chromium    | mg/kg        | 3.63E+01   | 1.78E-05         | 8.34E-05      | 1.15E-08          |
| 194         | 10        | Surface      | Nickel      | mg/kg        | 7.60E+01   | 3.72E-05         | 1.40E-04      | 2.40E-08          |
| 194         | 10        | Surface      | Total PAH   | mg/kg        | 2.57E-01   | 1.26E-07         | 1.54E-06      | 6.00E-09          |
| 194         | 11        | Surface      | Chromium    | mg/kg        | 3.27E+01   | 1.60E-05         | 7.51E-05      | 1.03E-08          |
| 194         | 11        | Surface      | Mercury     | mg/kg        | 8.09E+00   | 3.96E-06         | 1.86E-05      | 7.61E-05          |
| 194         | 11        | Surface      | Nickel      | mg/kg        | 1.01E+02   | 4.93E-05         | 1.85E-04      | 3.18E-08          |
| 194         | 11        | Surface      | PCB, Total  | mg/kg        | 8.40E-02   | 4.11E-08         | 5.41E-07      | 4.47E-08          |
| 194         | 11        | Surface      | Silver      | mg/kg        | 1.33E+01   | 6.50E-06         | 2.44E-05      | 4.19E-09          |
| 194         | 11        | Surface      | Total PAH   | mg/kg        | 7.95E-02   | 3.89E-08         | 4.75E-07      | 1.86E-09          |
| 194         | 12        | Surface      | Chromium    | mg/kg        | 6.34E+01   | 3.10E-05         | 1.46E-04      | 2.00E-08          |
| 194         | 12        | Surface      | Nickel      | mg/kg        | 7.86E+01   | 3.85E-05         | 1.45E-04      | 2.48E-08          |
| 194         | 12        | Surface      | Silver      | mg/kg        | 1.20E+01   | 5.86E-06         | 2.20E-05      | 3.78E-09          |
| 194         | 12        | Surface      | Total PAH   | mg/kg        | 8.91E-01   | 4.36E-07         | 5.33E-06      | 2.08E-08          |
| 194         | 13        | Surface      | Chromium    | mg/kg        | 4.77E+01   | 2.33E-05         | 1.10E-04      | 1.50E-08          |
| 194         | 13        | Surface      | Nickel      | mg/kg        | 6.03E+01   | 2.95E-05         | 1.11E-04      | 1.90E-08          |
| 194         | 13        | Surface      | Total PAH   | mg/kg        | 9.13E-02   | 4.47E-08         | 5.46E-07      | 2.13E-09          |
| 194         | 14        | Surface      | Chromium    | mg/kg        | 5.21E+01   | 2.55E-05         | 1.20E-04      | 1.65E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 14        | Surface      | Mercury     | mg/kg        | 8.14E+00   | 3.98E-06         | 1.87E-05      | 7.66E-05          |
| 194         | 15        | Surface      | Chromium    | mg/kg        | 5.33E+01   | 2.61E-05         | 1.23E-04      | 1.68E-08          |
| 194         | 15        | Surface      | Silver      | mg/kg        | 1.03E+01   | 5.04E-06         | 1.90E-05      | 3.25E-09          |
| 194         | 16        | Surface      | Antimony    | mg/kg        | 7.40E-01   | 3.62E-07         | 1.70E-06      | 2.34E-10          |
| 194         | 16        | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 5.64E-06         | 1.59E-05      | 3.64E-09          |
| 194         | 16        | Surface      | Beryllium   | mg/kg        | 8.70E-01   | 4.26E-07         | 2.80E-07      | 2.75E-10          |
| 194         | 16        | Surface      | Chromium    | mg/kg        | 5.32E+01   | 2.60E-05         | 1.22E-04      | 1.68E-08          |
| 194         | 16        | Surface      | Nickel      | mg/kg        | 7.20E+01   | 3.52E-05         | 1.33E-04      | 2.27E-08          |
| 194         | 16        | Surface      | Thallium    | mg/kg        | 6.30E-01   | 3.08E-07         | 1.45E-06      | 1.99E-10          |
| 194         | 16        | Surface      | Vanadium    | mg/kg        | 4.11E+01   | 2.01E-05         | 4.91E-05      | 1.30E-08          |
| 194         | 17        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 5.65E-06         | 1.59E-05      | 3.65E-09          |
| 194         | 17        | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 5.38E-07         | 5.06E-08      | 3.47E-10          |
| 194         | 17        | Surface      | Chromium    | mg/kg        | 4.65E+01   | 2.27E-05         | 1.07E-04      | 1.47E-08          |
| 194         | 17        | Surface      | Total PAH   | mg/kg        | 1.59E-01   | 7.76E-08         | 9.49E-07      | 3.70E-09          |
| 194         | 18        | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 5.17E-06         | 1.46E-05      | 3.34E-09          |
| 194         | 18        | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 3.62E-07         | 2.38E-07      | 2.34E-10          |
| 194         | 18        | Surface      | Chromium    | mg/kg        | 6.85E+01   | 3.35E-05         | 1.57E-04      | 2.16E-08          |
| 194         | 18        | Surface      | Nickel      | mg/kg        | 5.78E+01   | 2.83E-05         | 1.06E-04      | 1.82E-08          |
| 194         | 19        | Surface      | Arsenic     | mg/kg        | 1.07E+01   | 5.23E-06         | 1.47E-05      | 3.37E-09          |
| 194         | 19        | Surface      | Chromium    | mg/kg        | 4.84E+01   | 2.37E-05         | 1.11E-04      | 1.53E-08          |
| 194         | 19        | Surface      | Nickel      | mg/kg        | 5.84E+01   | 2.86E-05         | 1.07E-04      | 1.84E-08          |
| 194         | 20        | Surface      | Arsenic     | mg/kg        | 1.18E+01   | 5.79E-06         | 1.63E-05      | 3.74E-09          |
| 194         | 20        | Surface      | Barium      | mg/kg        | 3.26E+02   | 1.59E-04         | 7.50E-04      | 1.03E-07          |
| 194         | 20        | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 5.38E-07         | 3.54E-07      | 3.47E-10          |
| 194         | 20        | Surface      | Chromium    | mg/kg        | 5.24E+01   | 2.56E-05         | 1.20E-04      | 1.65E-08          |
| 194         | 20        | Surface      | Cobalt      | mg/kg        | 2.11E+01   | 1.03E-05         | 4.85E-05      | 6.66E-09          |
| 194         | 20        | Surface      | Manganese   | mg/kg        | 2.29E+03   | 1.12E-03         | 4.22E-03      | 7.24E-07          |
| 194         | 20        | Surface      | Mercury     | mg/kg        | 7.28E+00   | 3.56E-06         | 1.67E-05      | 6.85E-05          |
| 194         | 20        | Surface      | Nickel      | mg/kg        | 6.57E+01   | 3.21E-05         | 1.21E-04      | 2.07E-08          |
| 194         | 20        | Surface      | Silver      | mg/kg        | 1.22E+01   | 5.98E-06         | 2.25E-05      | 3.86E-09          |
| 194         | 20        | Surface      | Total PAH   | mg/kg        | 3.10E-02   | 1.52E-08         | 1.85E-07      | 7.23E-10          |
| 194         | 20        | Surface      | Vanadium    | mg/kg        | 3.81E+01   | 1.86E-05         | 4.56E-05      | 1.20E-08          |
| 194         | 21        | Surface      | Antimony    | mg/kg        | 9.30E-01   | 4.55E-07         | 2.14E-06      | 2.94E-10          |
| 194         | 21        | Surface      | Chromium    | mg/kg        | 5.51E+01   | 2.70E-05         | 1.27E-04      | 1.74E-08          |
| 194         | 21        | Surface      | Mercury     | mg/kg        | 6.62E+00   | 3.24E-06         | 1.52E-05      | 6.23E-05          |
| 194         | 21        | Surface      | Nickel      | mg/kg        | 7.01E+01   | 3.43E-05         | 1.29E-04      | 2.21E-08          |
| 194         | 21        | Surface      | Thallium    | mg/kg        | 6.40E-01   | 3.13E-07         | 1.47E-06      | 2.02E-10          |
| 194         | 22        | Surface      | Chromium    | mg/kg        | 4.90E+01   | 2.40E-05         | 1.13E-04      | 1.55E-08          |
| 194         | 22        | Surface      | Manganese   | mg/kg        | 8.19E+02   | 4.01E-04         | 1.51E-03      | 2.59E-07          |
| 194         | 22        | Surface      | PCB, Total  | mg/kg        | 1.09E+01   | 5.34E-06         | 7.03E-05      | 5.81E-06          |
| 194         | 23        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 5.65E-06         | 1.59E-05      | 3.65E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 23        | Surface      | Chromium    | mg/kg        | 6.60E+01   | 3.23E-05         | 1.52E-04      | 2.08E-08          |
| 194         | 23        | Surface      | Iron        | mg/kg        | 1.83E+04   | 8.94E-03         | 4.20E-02      | 5.77E-06          |
| 194         | 23        | Surface      | Nickel      | mg/kg        | 8.77E+01   | 4.29E-05         | 1.61E-04      | 2.77E-08          |
| 194         | 23        | Surface      | Silver      | mg/kg        | 1.15E+01   | 5.62E-06         | 2.11E-05      | 3.62E-09          |
| 194         | 24        | Surface      | Chromium    | mg/kg        | 5.02E+01   | 2.46E-05         | 1.15E-04      | 1.58E-08          |
| 194         | 24        | Surface      | Nickel      | mg/kg        | 7.08E+01   | 3.46E-05         | 1.30E-04      | 2.23E-08          |
| 194         | 24        | Surface      | Total PAH   | mg/kg        | 2.28E-02   | 1.12E-08         | 1.36E-07      | 5.32E-10          |
| 194         | 25        | Surface      | Barium      | mg/kg        | 3.00E+02   | 1.47E-04         | 6.90E-04      | 9.47E-08          |
| 194         | 25        | Surface      | Chromium    | mg/kg        | 6.13E+01   | 3.00E-05         | 1.41E-04      | 1.93E-08          |
| 194         | 25        | Surface      | Manganese   | mg/kg        | 9.96E+02   | 4.87E-04         | 1.83E-03      | 3.14E-07          |
| 194         | 25        | Surface      | Nickel      | mg/kg        | 6.33E+01   | 3.10E-05         | 1.16E-04      | 2.00E-08          |
| 194         | 25        | Surface      | Total PAH   | mg/kg        | 2.06E-02   | 1.01E-08         | 1.23E-07      | 4.81E-10          |
| 194         | 26        | Surface      | Beryllium   | mg/kg        | 7.00E-01   | 3.42E-07         | 2.25E-07      | 2.21E-10          |
| 194         | 26        | Surface      | Chromium    | mg/kg        | 4.18E+01   | 2.05E-05         | 9.62E-05      | 1.32E-08          |
| 194         | 26        | Surface      | Silver      | mg/kg        | 1.03E+01   | 5.02E-06         | 1.89E-05      | 3.24E-09          |
| 194         | 26        | Surface      | Thallium    | mg/kg        | 3.90E-01   | 1.91E-07         | 8.97E-07      | 1.23E-10          |
| 194         | 27        | Surface      | Chromium    | mg/kg        | 5.22E+01   | 2.55E-05         | 1.20E-04      | 1.65E-08          |
| 194         | 27        | Surface      | Nickel      | mg/kg        | 6.55E+01   | 3.20E-05         | 1.20E-04      | 2.07E-08          |
| 194         | 27        | Surface      | Silver      | mg/kg        | 1.01E+01   | 4.95E-06         | 1.86E-05      | 3.19E-09          |
| 194         | 28        | Surface      | Arsenic     | mg/kg        | 1.20E+01   | 5.89E-06         | 1.66E-05      | 3.80E-09          |
| 194         | 28        | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 3.47E-07         | 2.29E-07      | 2.24E-10          |
| 194         | 28        | Surface      | Chromium    | mg/kg        | 6.07E+01   | 2.97E-05         | 1.40E-04      | 1.92E-08          |
| 194         | 28        | Surface      | Manganese   | mg/kg        | 1.14E+03   | 5.57E-04         | 2.09E-03      | 3.59E-07          |
| 194         | 28        | Surface      | Nickel      | mg/kg        | 6.95E+01   | 3.40E-05         | 1.28E-04      | 2.19E-08          |
| 194         | 28        | Surface      | Silver      | mg/kg        | 1.08E+01   | 5.28E-06         | 1.98E-05      | 3.41E-09          |
| 194         | 28        | Surface      | Vanadium    | mg/kg        | 4.06E+01   | 1.99E-05         | 4.85E-05      | 1.28E-08          |
| 194         | 29        | Surface      | Antimony    | mg/kg        | 7.10E-01   | 3.47E-07         | 1.63E-06      | 2.24E-10          |
| 194         | 29        | Surface      | Chromium    | mg/kg        | 5.06E+01   | 2.47E-05         | 1.16E-04      | 1.60E-08          |
| 194         | 29        | Surface      | Nickel      | mg/kg        | 6.51E+01   | 3.18E-05         | 1.20E-04      | 2.05E-08          |
| 194         | 29        | Surface      | Silver      | mg/kg        | 9.77E+00   | 4.78E-06         | 1.80E-05      | 3.08E-09          |
| 194         | 30        | Surface      | Chromium    | mg/kg        | 5.66E+01   | 2.77E-05         | 1.30E-04      | 1.79E-08          |
| 194         | 30        | Surface      | Mercury     | mg/kg        | 8.80E+00   | 4.31E-06         | 2.02E-05      | 8.28E-05          |
| 194         | 30        | Surface      | Nickel      | mg/kg        | 6.99E+01   | 3.42E-05         | 1.29E-04      | 2.21E-08          |
| 194         | 30        | Surface      | Silver      | mg/kg        | 9.76E+00   | 4.77E-06         | 1.80E-05      | 3.08E-09          |
| 196         | 1         | Surface      | Antimony    | mg/kg        | 5.90E-01   | 2.89E-07         | 1.36E-06      | 1.86E-10          |
| 196         | 1         | Surface      | Chromium    | mg/kg        | 1.96E+01   | 9.59E-06         | 4.51E-05      | 6.19E-09          |
| 196         | 1         | Surface      | Nickel      | mg/kg        | 5.56E+02   | 2.72E-04         | 1.02E-03      | 1.75E-07          |
| 196         | 1         | Surface      | Uranium     | mg/kg        | 2.33E+01   | 1.14E-05         | 5.36E-05      | 7.35E-09          |
| 196         | 2         | Surface      | Barium      | mg/kg        | 2.02E+02   | 9.88E-05         | 4.64E-04      | 6.38E-08          |
| 196         | 2         | Surface      | Cadmium     | mg/kg        | 2.53E+00   | 1.24E-06         | 1.16E-07      | 7.99E-10          |
| 196         | 2         | Surface      | Chromium    | mg/kg        | 2.07E+01   | 1.01E-05         | 4.76E-05      | 6.53E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 196         | 2         | Surface      | Nickel      | mg/kg        | 7.36E+01   | 3.60E-05         | 1.35E-04      | 2.32E-08          |
| 196         | 2         | Surface      | PCB, Total  | mg/kg        | 1.51E+00   | 7.39E-07         | 9.72E-06      | 8.03E-07          |
| 196         | 2         | Surface      | Total PAH   | mg/kg        | 6.80E-01   | 3.33E-07         | 4.07E-06      | 1.59E-08          |
| 489         | 1         | Surface      | Chromium    | mg/kg        | 4.16E+01   | 2.04E-05         | 9.57E-05      | 1.31E-08          |
| 489         | 1         | Surface      | Nickel      | mg/kg        | 7.88E+01   | 3.86E-05         | 1.45E-04      | 2.49E-08          |
| 489         | 1         | Surface      | Total PAH   | mg/kg        | 8.22E-02   | 4.02E-08         | 4.91E-07      | 1.92E-09          |
| 531         | 1         | Surface      | Antimony    | mg/kg        | 1.00E+00   | 4.89E-07         | 2.30E-06      | 3.16E-10          |
| 531         | 1         | Surface      | Arsenic     | mg/kg        | 4.68E+01   | 2.29E-05         | 6.46E-05      | 1.48E-08          |
| 531         | 1         | Surface      | Cadmium     | mg/kg        | 3.10E+00   | 1.52E-06         | 1.43E-07      | 9.78E-10          |
| 531         | 1         | Surface      | Chromium    | mg/kg        | 5.05E+01   | 2.47E-05         | 1.16E-04      | 1.59E-08          |
| 531         | 1         | Surface      | Iron        | mg/kg        | 5.68E+04   | 2.78E-02         | 1.31E-01      | 1.79E-05          |
| 531         | 1         | Surface      | Nickel      | mg/kg        | 1.62E+02   | 7.94E-05         | 2.98E-04      | 5.12E-08          |
| 531         | 1         | Surface      | Total PAH   | mg/kg        | 5.34E-02   | 2.61E-08         | 3.19E-07      | 1.25E-09          |
| 531         | 1         | Surface      | Uranium     | mg/kg        | 2.41E+01   | 1.18E-05         | 5.53E-05      | 7.60E-09          |
| 531         | 1         | Surface      | Zinc        | mg/kg        | 2.45E+03   | 1.20E-03         | 5.64E-03      | 7.74E-07          |
| 200         | 1         | Surface      | Antimony    | mg/kg        | 5.60E-01   | 2.74E-07         | 1.29E-06      | 1.77E-10          |
| 200         | 1         | Surface      | Chromium    | mg/kg        | 5.75E+01   | 2.81E-05         | 1.32E-04      | 1.82E-08          |
| 200         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 3.28E-06         | 1.54E-05      | 6.31E-05          |
| 200         | 1         | Surface      | Nickel      | mg/kg        | 1.28E+02   | 6.26E-05         | 2.35E-04      | 4.04E-08          |
| 200         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E+00   | 1.27E-06         | 1.67E-05      | 1.38E-06          |
| 200         | 1         | Surface      | Total PAH   | mg/kg        | 2.84E-02   | 1.39E-08         | 1.70E-07      | 6.63E-10          |
| 200         | 1         | Surface      | Uranium     | mg/kg        | 2.73E+01   | 1.34E-05         | 6.28E-05      | 8.62E-09          |
| 212         | 1         | Surface      | Arsenic     | mg/kg        | 1.44E+01   | 7.05E-06         | 1.99E-05      | 4.55E-09          |
| 212         | 1         | Surface      | Beryllium   | mg/kg        | 8.10E-01   | 3.96E-07         | 2.61E-07      | 2.56E-10          |
| 212         | 1         | Surface      | Chromium    | mg/kg        | 3.58E+01   | 1.75E-05         | 8.23E-05      | 1.13E-08          |
| 212         | 1         | Surface      | Iron        | mg/kg        | 4.14E+04   | 2.03E-02         | 9.52E-02      | 1.31E-05          |
| 212         | 1         | Surface      | Nickel      | mg/kg        | 8.69E+01   | 4.25E-05         | 1.60E-04      | 2.74E-08          |
| 212         | 1         | Surface      | PCB, Total  | mg/kg        | 1.80E-01   | 8.81E-08         | 1.16E-06      | 9.58E-08          |
| 212         | 1         | Surface      | Uranium     | mg/kg        | 2.30E+01   | 1.13E-05         | 5.29E-05      | 7.26E-09          |
| 213         | 1         | Surface      | Antimony    | mg/kg        | 8.50E-01   | 4.16E-07         | 1.95E-06      | 2.68E-10          |
| 213         | 1         | Surface      | Chromium    | mg/kg        | 4.78E+01   | 2.34E-05         | 1.10E-04      | 1.51E-08          |
| 213         | 1         | Surface      | Nickel      | mg/kg        | 6.67E+01   | 3.26E-05         | 1.23E-04      | 2.11E-08          |
| 213         | 1         | Surface      | PCB, Total  | mg/kg        | 7.30E-02   | 3.57E-08         | 4.70E-07      | 3.88E-08          |
| 213         | 1         | Surface      | Silver      | mg/kg        | 1.32E+01   | 6.44E-06         | 2.42E-05      | 4.16E-09          |
| 213         | 1         | Surface      | Total PAH   | mg/kg        | 1.72E-01   | 8.41E-08         | 1.03E-06      | 4.01E-09          |
| 213         | 2         | Surface      | Chromium    | mg/kg        | 4.48E+01   | 2.19E-05         | 1.03E-04      | 1.41E-08          |
| 213         | 2         | Surface      | Nickel      | mg/kg        | 9.10E+01   | 4.45E-05         | 1.67E-04      | 2.87E-08          |
| 213         | 2         | Surface      | Silver      | mg/kg        | 1.13E+01   | 5.51E-06         | 2.07E-05      | 3.55E-09          |
| 214         | 1         | Surface      | Antimony    | mg/kg        | 5.70E-01   | 2.79E-07         | 1.31E-06      | 1.80E-10          |
| 215         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 3.33E-07         | 1.56E-06      | 2.15E-10          |
| 215         | 1         | Surface      | Chromium    | mg/kg        | 5.73E+01   | 2.80E-05         | 1.32E-04      | 1.81E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration



**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 215         | 1         | Surface      | Iron        | mg/kg        | 3.87E+04   | 1.89E-02         | 8.90E-02      | 1.22E-05          |
| 215         | 1         | Surface      | Nickel      | mg/kg        | 7.32E+01   | 3.58E-05         | 1.35E-04      | 2.31E-08          |
| 215         | 1         | Surface      | Total PAH   | mg/kg        | 8.09E-02   | 3.96E-08         | 4.84E-07      | 1.89E-09          |
| 216         | 1         | Surface      | Chromium    | mg/kg        | 2.38E+01   | 1.16E-05         | 5.47E-05      | 7.51E-09          |
| 216         | 1         | Surface      | Total PAH   | mg/kg        | 1.49E-01   | 7.31E-08         | 8.93E-07      | 3.48E-09          |
| 217         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 4.20E-05         | 1.97E-04      | 2.71E-08          |
| 217         | 1         | Surface      | Cobalt      | mg/kg        | 1.96E+01   | 9.57E-06         | 4.50E-05      | 6.18E-09          |
| 217         | 1         | Surface      | Manganese   | mg/kg        | 7.70E+02   | 3.77E-04         | 1.42E-03      | 2.43E-07          |
| 217         | 1         | Surface      | Nickel      | mg/kg        | 8.54E+01   | 4.18E-05         | 1.57E-04      | 2.70E-08          |
| 217         | 1         | Surface      | Silver      | mg/kg        | 1.35E+01   | 6.58E-06         | 2.47E-05      | 4.25E-09          |
| 217         | 2         | Surface      | Antimony    | mg/kg        | 1.70E+00   | 8.32E-07         | 3.91E-06      | 5.37E-10          |
| 217         | 2         | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 5.46E-06         | 1.54E-05      | 3.52E-09          |
| 217         | 2         | Surface      | Chromium    | mg/kg        | 1.02E+02   | 4.97E-05         | 2.34E-04      | 3.21E-08          |
| 217         | 2         | Surface      | Cobalt      | mg/kg        | 1.74E+01   | 8.51E-06         | 4.00E-05      | 5.49E-09          |
| 217         | 2         | Surface      | Iron        | mg/kg        | 3.09E+04   | 1.51E-02         | 7.11E-02      | 9.76E-06          |
| 217         | 2         | Surface      | Manganese   | mg/kg        | 8.44E+02   | 4.13E-04         | 1.55E-03      | 2.66E-07          |
| 217         | 2         | Surface      | Mercury     | mg/kg        | 8.59E+00   | 4.20E-06         | 1.98E-05      | 8.08E-05          |
| 217         | 2         | Surface      | Nickel      | mg/kg        | 9.74E+01   | 4.76E-05         | 1.79E-04      | 3.07E-08          |
| 217         | 2         | Surface      | Silver      | mg/kg        | 1.61E+01   | 7.87E-06         | 2.96E-05      | 5.08E-09          |
| 217         | 2         | Surface      | Total PAH   | mg/kg        | 5.05E-01   | 2.47E-07         | 3.02E-06      | 1.18E-08          |
| 221         | 1         | Surface      | Barium      | mg/kg        | 2.21E+02   | 1.08E-04         | 5.08E-04      | 6.98E-08          |
| 221         | 1         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 3.43E-05         | 1.61E-04      | 2.21E-08          |
| 221         | 1         | Surface      | Iron        | mg/kg        | 1.90E+04   | 9.28E-03         | 4.36E-02      | 5.99E-06          |
| 221         | 1         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 3.88E-05         | 1.46E-04      | 2.50E-08          |
| 221         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 2.45E-07         | 3.22E-06      | 2.66E-07          |
| 221         | 1         | Surface      | Total PAH   | mg/kg        | 1.02E+00   | 5.00E-07         | 6.11E-06      | 2.39E-08          |
| 221         | 1         | Surface      | Uranium     | mg/kg        | 1.64E+01   | 8.00E-06         | 3.76E-05      | 5.16E-09          |
| 222         | 1         | Surface      | Chromium    | mg/kg        | 4.73E+01   | 2.31E-05         | 1.09E-04      | 1.49E-08          |
| 222         | 1         | Surface      | Nickel      | mg/kg        | 9.19E+01   | 4.50E-05         | 1.69E-04      | 2.90E-08          |
| 222         | 1         | Surface      | PCB, Total  | mg/kg        | 1.40E+00   | 6.85E-07         | 9.01E-06      | 7.45E-07          |
| 222         | 1         | Surface      | Total PAH   | mg/kg        | 1.77E-01   | 8.67E-08         | 1.06E-06      | 4.13E-09          |
| 222         | 1         | Surface      | Uranium     | mg/kg        | 2.80E+01   | 1.37E-05         | 6.43E-05      | 8.83E-09          |
| 227         | 1         | Surface      | Beryllium   | mg/kg        | 5.52E-01   | 2.70E-07         | 1.78E-07      | 1.74E-10          |
| 227         | 1         | Surface      | Chromium    | mg/kg        | 4.71E+01   | 2.31E-05         | 1.08E-04      | 1.49E-08          |
| 227         | 1         | Surface      | Nickel      | mg/kg        | 2.03E+02   | 9.93E-05         | 3.73E-04      | 6.41E-08          |
| 227         | 1         | Surface      | PCB, Total  | mg/kg        | 4.14E+00   | 2.03E-06         | 2.67E-05      | 2.20E-06          |
| 227         | 1         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 1.65E-07         | 2.02E-06      | 7.88E-09          |
| 227         | 1         | Surface      | Uranium     | mg/kg        | 1.02E+02   | 4.97E-05         | 2.34E-04      | 3.21E-08          |
| 227         | 2         | Surface      | Beryllium   | mg/kg        | 5.32E-01   | 2.60E-07         | 1.71E-07      | 1.68E-10          |
| 227         | 2         | Surface      | Chromium    | mg/kg        | 5.63E+01   | 2.75E-05         | 1.29E-04      | 1.78E-08          |
| 227         | 2         | Surface      | Cobalt      | mg/kg        | 8.99E+00   | 4.40E-06         | 2.07E-05      | 2.84E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 227         | 2         | Surface      | Mercury     | mg/kg        | 8.41E+00   | 4.11E-06         | 1.93E-05      | 7.91E-05          |
| 227         | 2         | Surface      | Nickel      | mg/kg        | 1.25E+02   | 6.11E-05         | 2.30E-04      | 3.94E-08          |
| 227         | 2         | Surface      | PCB, Total  | mg/kg        | 5.82E+00   | 2.85E-06         | 3.75E-05      | 3.10E-06          |
| 227         | 2         | Surface      | Total PAH   | mg/kg        | 1.16E-01   | 5.66E-08         | 6.92E-07      | 2.70E-09          |
| 227         | 2         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 7.36E-06         | 3.46E-05      | 4.75E-09          |
| 228         | 1         | Surface      | Antimony    | mg/kg        | 6.30E-01   | 3.08E-07         | 1.45E-06      | 1.99E-10          |
| 228         | 1         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 1.91E-06         | 1.79E-07      | 1.23E-09          |
| 228         | 1         | Surface      | Chromium    | mg/kg        | 1.89E+02   | 9.24E-05         | 4.34E-04      | 5.96E-08          |
| 228         | 1         | Surface      | Mercury     | mg/kg        | 9.37E+00   | 4.58E-06         | 2.15E-05      | 8.82E-05          |
| 228         | 1         | Surface      | Nickel      | mg/kg        | 7.92E+01   | 3.87E-05         | 1.46E-04      | 2.50E-08          |
| 228         | 1         | Surface      | Silver      | mg/kg        | 1.16E+01   | 5.69E-06         | 2.14E-05      | 3.67E-09          |
| 228         | 1         | Surface      | Total PAH   | mg/kg        | 6.69E-02   | 3.27E-08         | 4.00E-07      | 1.56E-09          |
| 228         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 7.40E-06         | 3.48E-05      | 4.78E-09          |
| 76          | 1         | Surface      | Barium      | mg/kg        | 2.69E+02   | 1.32E-04         | 6.19E-04      | 8.49E-08          |
| 76          | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 1.27E-07         | 1.67E-06      | 1.38E-07          |
| 76          | 1         | Surface      | Total PAH   | mg/kg        | 1.76E+00   | 8.60E-07         | 1.05E-05      | 4.10E-08          |
| 165         | 1         | Surface      | Antimony    | mg/kg        | 2.20E+00   | 1.08E-06         | 5.06E-06      | 6.94E-10          |
| 165         | 1         | Surface      | Arsenic     | mg/kg        | 6.35E+01   | 3.11E-05         | 8.76E-05      | 2.00E-08          |
| 165         | 1         | Surface      | Barium      | mg/kg        | 5.84E+02   | 2.86E-04         | 1.34E-03      | 1.84E-07          |
| 165         | 1         | Surface      | Beryllium   | mg/kg        | 6.82E-01   | 3.34E-07         | 2.20E-07      | 2.15E-10          |
| 165         | 1         | Surface      | Chromium    | mg/kg        | 3.74E+01   | 1.83E-05         | 8.60E-05      | 1.18E-08          |
| 165         | 1         | Surface      | Mercury     | mg/kg        | 3.78E-01   | 1.85E-07         | 8.69E-07      | 3.56E-06          |
| 165         | 1         | Surface      | Naphthalene | mg/kg        | 1.61E+00   | 7.88E-07         | 1.85E-05      | 1.70E-05          |
| 165         | 1         | Surface      | Nickel      | mg/kg        | 3.47E+01   | 1.70E-05         | 6.38E-05      | 1.09E-08          |
| 165         | 1         | Surface      | PCB, Total  | mg/kg        | 8.27E+00   | 4.05E-06         | 5.32E-05      | 4.40E-06          |
| 165         | 1         | Surface      | Silver      | mg/kg        | 3.09E+01   | 1.51E-05         | 5.69E-05      | 9.76E-09          |
| 165         | 1         | Surface      | Total PAH   | mg/kg        | 1.87E+00   | 9.14E-07         | 1.12E-05      | 4.36E-08          |
| 165         | 1         | Surface      | Uranium     | mg/kg        | 1.08E+02   | 5.26E-05         | 2.47E-04      | 3.39E-08          |
| 158         | 1         | Surface      | Antimony    | mg/kg        | 5.23E-01   | 2.56E-07         | 1.20E-06      | 1.65E-10          |
| 158         | 1         | Surface      | Arsenic     | mg/kg        | 1.01E+01   | 4.95E-06         | 1.40E-05      | 3.19E-09          |
| 158         | 1         | Surface      | Barium      | mg/kg        | 2.19E+02   | 1.07E-04         | 5.03E-04      | 6.90E-08          |
| 158         | 1         | Surface      | Chromium    | mg/kg        | 6.07E+01   | 2.97E-05         | 1.40E-04      | 1.92E-08          |
| 158         | 1         | Surface      | Cobalt      | mg/kg        | 1.62E+01   | 7.94E-06         | 3.73E-05      | 5.12E-09          |
| 158         | 1         | Surface      | Manganese   | mg/kg        | 9.91E+02   | 4.85E-04         | 1.82E-03      | 3.13E-07          |
| 158         | 1         | Surface      | Mercury     | mg/kg        | 1.05E+01   | 5.12E-06         | 2.41E-05      | 9.84E-05          |
| 158         | 1         | Surface      | Nickel      | mg/kg        | 7.28E+01   | 3.56E-05         | 1.34E-04      | 2.30E-08          |
| 158         | 1         | Surface      | Thallium    | mg/kg        | 3.12E-01   | 1.53E-07         | 7.17E-07      | 9.85E-11          |
| 158         | 1         | Surface      | Total PAH   | mg/kg        | 3.69E-01   | 1.81E-07         | 2.21E-06      | 8.61E-09          |
| 158         | 1         | Surface      | Uranium     | mg/kg        | 2.03E+01   | 9.93E-06         | 4.67E-05      | 6.41E-09          |
| 169         | 1         | Surface      | Aluminum    | mg/kg        | 1.42E+04   | 6.95E-03         | 3.27E-02      | 4.48E-06          |
| 169         | 1         | Surface      | Antimony    | mg/kg        | 1.30E+00   | 6.36E-07         | 2.99E-06      | 4.10E-10          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 169         | 1         | Surface      | Arsenic     | mg/kg        | 2.03E+01   | 9.93E-06         | 2.80E-05      | 6.41E-09          |
| 169         | 1         | Surface      | Beryllium   | mg/kg        | 8.00E-01   | 3.91E-07         | 2.58E-07      | 2.53E-10          |
| 169         | 1         | Surface      | Chromium    | mg/kg        | 2.15E+02   | 1.05E-04         | 4.94E-04      | 6.78E-08          |
| 169         | 1         | Surface      | Copper      | mg/kg        | 3.74E+02   | 1.83E-04         | 8.61E-04      | 1.18E-07          |
| 169         | 1         | Surface      | Iron        | mg/kg        | 4.16E+04   | 2.03E-02         | 9.56E-02      | 1.31E-05          |
| 169         | 1         | Surface      | Mercury     | mg/kg        | 7.87E+00   | 3.85E-06         | 1.81E-05      | 7.40E-05          |
| 169         | 1         | Surface      | Nickel      | mg/kg        | 5.49E+02   | 2.68E-04         | 1.01E-03      | 1.73E-07          |
| 169         | 1         | Surface      | PCB, Total  | mg/kg        | 1.00E+01   | 4.89E-06         | 6.44E-05      | 5.32E-06          |
| 169         | 1         | Surface      | Thallium    | mg/kg        | 4.60E-01   | 2.25E-07         | 1.06E-06      | 1.45E-10          |
| 169         | 1         | Surface      | Total PAH   | mg/kg        | 4.59E+00   | 2.24E-06         | 2.74E-05      | 1.07E-07          |
| 169         | 1         | Surface      | Uranium     | mg/kg        | 5.03E+01   | 2.46E-05         | 1.16E-04      | 1.59E-08          |
| 19          | 1         | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 5.38E-07         | 3.54E-07      | 3.47E-10          |
| 19          | 1         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 5.87E-07         | 5.52E-08      | 3.79E-10          |
| 19          | 1         | Surface      | Thallium    | mg/kg        | 9.80E-01   | 4.79E-07         | 2.25E-06      | 3.09E-10          |
| 19          | 1         | Surface      | Total PAH   | mg/kg        | 5.23E+00   | 2.56E-06         | 3.12E-05      | 1.22E-07          |
| 138         | 1         | Surface      | Antimony    | mg/kg        | 5.39E+00   | 2.64E-06         | 1.24E-05      | 1.70E-09          |
| 138         | 1         | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 5.20E-06         | 1.47E-05      | 3.35E-09          |
| 138         | 1         | Surface      | Cadmium     | mg/kg        | 5.42E+00   | 2.65E-06         | 2.49E-07      | 1.71E-09          |
| 138         | 1         | Surface      | Chromium    | mg/kg        | 5.39E+01   | 2.63E-05         | 1.24E-04      | 1.70E-08          |
| 138         | 1         | Surface      | Mercury     | mg/kg        | 1.30E+01   | 6.36E-06         | 2.99E-05      | 1.22E-04          |
| 138         | 1         | Surface      | Nickel      | mg/kg        | 7.04E+01   | 3.44E-05         | 1.29E-04      | 2.22E-08          |
| 138         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 2.45E-07         | 3.22E-06      | 2.66E-07          |
| 138         | 1         | Surface      | Silver      | mg/kg        | 1.01E+01   | 4.94E-06         | 1.86E-05      | 3.18E-09          |
| 138         | 1         | Surface      | Total PAH   | mg/kg        | 9.74E-02   | 4.77E-08         | 5.82E-07      | 2.27E-09          |
| 138         | 2         | Surface      | Nickel      | mg/kg        | 7.99E+01   | 3.91E-05         | 1.47E-04      | 2.52E-08          |
| 138         | 2         | Surface      | PCB, Total  | mg/kg        | 9.20E-02   | 4.50E-08         | 5.92E-07      | 4.90E-08          |
| 138         | 2         | Surface      | Silver      | mg/kg        | 1.04E+01   | 5.11E-06         | 1.92E-05      | 3.30E-09          |
| 138         | 2         | Surface      | Total PAH   | mg/kg        | 3.84E-02   | 1.88E-08         | 2.30E-07      | 8.96E-10          |
| 180         | 1         | Surface      | Antimony    | mg/kg        | 5.80E-01   | 2.84E-07         | 1.33E-06      | 1.83E-10          |
| 180         | 1         | Surface      | Arsenic     | mg/kg        | 7.48E+01   | 3.66E-05         | 1.03E-04      | 2.36E-08          |
| 180         | 1         | Surface      | Chromium    | mg/kg        | 5.54E+01   | 2.71E-05         | 1.27E-04      | 1.75E-08          |
| 180         | 1         | Surface      | Mercury     | mg/kg        | 8.28E+00   | 4.05E-06         | 1.90E-05      | 7.79E-05          |
| 180         | 1         | Surface      | Nickel      | mg/kg        | 8.77E+01   | 4.29E-05         | 1.61E-04      | 2.77E-08          |
| 180         | 2         | Surface      | Antimony    | mg/kg        | 4.58E-01   | 2.24E-07         | 1.05E-06      | 1.45E-10          |
| 180         | 2         | Surface      | Arsenic     | mg/kg        | 1.27E+01   | 6.19E-06         | 1.75E-05      | 3.99E-09          |
| 180         | 2         | Surface      | Chromium    | mg/kg        | 4.46E+01   | 2.18E-05         | 1.03E-04      | 1.41E-08          |
| 180         | 2         | Surface      | Nickel      | mg/kg        | 8.42E+01   | 4.12E-05         | 1.55E-04      | 2.66E-08          |
| 180         | 2         | Surface      | Total PAH   | mg/kg        | 9.19E-02   | 4.49E-08         | 5.49E-07      | 2.14E-09          |
| 180         | 3         | Surface      | Arsenic     | mg/kg        | 1.34E+01   | 6.53E-06         | 1.84E-05      | 4.21E-09          |
| 180         | 3         | Surface      | Chromium    | mg/kg        | 4.69E+01   | 2.30E-05         | 1.08E-04      | 1.48E-08          |
| 180         | 3         | Surface      | Nickel      | mg/kg        | 6.77E+01   | 3.31E-05         | 1.25E-04      | 2.14E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 180         | 3         | Surface      | Silver      | mg/kg        | 1.14E+01   | 5.58E-06         | 2.10E-05      | 3.60E-09          |
| 180         | 4         | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 5.64E-06         | 1.59E-05      | 3.64E-09          |
| 180         | 4         | Surface      | Barium      | mg/kg        | 2.13E+02   | 1.04E-04         | 4.90E-04      | 6.72E-08          |
| 180         | 4         | Surface      | Beryllium   | mg/kg        | 1.60E+00   | 7.83E-07         | 5.15E-07      | 5.05E-10          |
| 180         | 4         | Surface      | Chromium    | mg/kg        | 6.00E+01   | 2.94E-05         | 1.38E-04      | 1.89E-08          |
| 180         | 4         | Surface      | Iron        | mg/kg        | 1.54E+04   | 7.52E-03         | 3.53E-02      | 4.85E-06          |
| 180         | 4         | Surface      | Manganese   | mg/kg        | 7.09E+02   | 3.47E-04         | 1.30E-03      | 2.24E-07          |
| 180         | 4         | Surface      | Nickel      | mg/kg        | 6.46E+01   | 3.16E-05         | 1.19E-04      | 2.04E-08          |
| 180         | 4         | Surface      | Silver      | mg/kg        | 9.68E+00   | 4.74E-06         | 1.78E-05      | 3.06E-09          |
| 180         | 4         | Surface      | Total PAH   | mg/kg        | 2.15E-02   | 1.05E-08         | 1.29E-07      | 5.02E-10          |
| 180         | 4         | Surface      | Vanadium    | mg/kg        | 4.85E+01   | 2.37E-05         | 5.80E-05      | 1.53E-08          |
| 181         | 1         | Surface      | Chromium    | mg/kg        | 2.29E+01   | 1.12E-05         | 5.25E-05      | 7.21E-09          |
| 181         | 1         | Surface      | Thallium    | mg/kg        | 3.50E+00   | 1.71E-06         | 8.05E-06      | 1.10E-09          |
| 181         | 1         | Surface      | Total PAH   | mg/kg        | 3.43E-02   | 1.68E-08         | 2.05E-07      | 8.01E-10          |
| 195         | 1         | Surface      | Chromium    | mg/kg        | 6.33E+01   | 3.10E-05         | 1.45E-04      | 2.00E-08          |
| 195         | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 3.43E-05         | 1.29E-04      | 2.22E-08          |
| 195         | 1         | Surface      | Silver      | mg/kg        | 9.37E+00   | 4.58E-06         | 1.72E-05      | 2.96E-09          |
| 195         | 2         | Surface      | Chromium    | mg/kg        | 4.52E+01   | 2.21E-05         | 1.04E-04      | 1.43E-08          |
| 195         | 2         | Surface      | Silver      | mg/kg        | 9.48E+00   | 4.64E-06         | 1.74E-05      | 2.99E-09          |
| 195         | 2         | Surface      | Total PAH   | mg/kg        | 2.68E-02   | 1.31E-08         | 1.60E-07      | 6.25E-10          |
| 195         | 3         | Surface      | Chromium    | mg/kg        | 5.03E+01   | 2.46E-05         | 1.16E-04      | 1.59E-08          |
| 195         | 3         | Surface      | Nickel      | mg/kg        | 5.22E+01   | 2.55E-05         | 9.59E-05      | 1.65E-08          |
| 195         | 3         | Surface      | Total PAH   | mg/kg        | 4.06E-02   | 1.99E-08         | 2.43E-07      | 9.48E-10          |
| 195         | 4         | Surface      | Chromium    | mg/kg        | 5.29E+01   | 2.59E-05         | 1.22E-04      | 1.67E-08          |
| 195         | 4         | Surface      | Nickel      | mg/kg        | 6.23E+01   | 3.05E-05         | 1.15E-04      | 1.97E-08          |
| 195         | 5         | Surface      | Chromium    | mg/kg        | 5.74E+01   | 2.81E-05         | 1.32E-04      | 1.81E-08          |
| 195         | 5         | Surface      | Nickel      | mg/kg        | 8.11E+01   | 3.97E-05         | 1.49E-04      | 2.56E-08          |
| 195         | 5         | Surface      | Total PAH   | mg/kg        | 2.40E-02   | 1.17E-08         | 1.43E-07      | 5.60E-10          |
| 195         | 6         | Surface      | Chromium    | mg/kg        | 4.45E+01   | 2.18E-05         | 1.02E-04      | 1.41E-08          |
| 195         | 6         | Surface      | Nickel      | mg/kg        | 8.71E+01   | 4.26E-05         | 1.60E-04      | 2.75E-08          |
| 195         | 6         | Surface      | Total PAH   | mg/kg        | 2.48E-01   | 1.21E-07         | 1.48E-06      | 5.78E-09          |
| 195         | 7         | Surface      | Chromium    | mg/kg        | 4.93E+01   | 2.41E-05         | 1.13E-04      | 1.55E-08          |
| 195         | 7         | Surface      | Silver      | mg/kg        | 8.06E+00   | 3.94E-06         | 1.48E-05      | 2.54E-09          |
| 195         | 8         | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 5.66E-06         | 1.59E-05      | 3.65E-09          |
| 195         | 8         | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 3.62E-07         | 2.38E-07      | 2.34E-10          |
| 195         | 8         | Surface      | Chromium    | mg/kg        | 6.79E+01   | 3.32E-05         | 1.56E-04      | 2.14E-08          |
| 195         | 8         | Surface      | Cobalt      | mg/kg        | 1.82E+01   | 8.90E-06         | 4.18E-05      | 5.74E-09          |
| 195         | 8         | Surface      | Nickel      | mg/kg        | 7.01E+01   | 3.43E-05         | 1.29E-04      | 2.21E-08          |
| 195         | 8         | Surface      | Total PAH   | mg/kg        | 2.16E-01   | 1.05E-07         | 1.29E-06      | 5.03E-09          |
| 195         | 8         | Surface      | Vanadium    | mg/kg        | 4.04E+01   | 1.98E-05         | 4.83E-05      | 1.28E-08          |
| 195         | 9         | Surface      | Chromium    | mg/kg        | 6.08E+01   | 2.97E-05         | 1.40E-04      | 1.92E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 195         | 9         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 3.88E-05         | 1.46E-04      | 2.50E-08          |
| 195         | 10        | Surface      | Chromium    | mg/kg        | 4.51E+01   | 2.20E-05         | 1.04E-04      | 1.42E-08          |
| 195         | 10        | Surface      | Nickel      | mg/kg        | 7.40E+01   | 3.62E-05         | 1.36E-04      | 2.34E-08          |
| 195         | 10        | Surface      | Silver      | mg/kg        | 1.31E+01   | 6.41E-06         | 2.41E-05      | 4.14E-09          |
| 195         | 11        | Surface      | Aluminum    | mg/kg        | 2.81E+04   | 1.37E-02         | 6.46E-02      | 8.87E-06          |
| 195         | 11        | Surface      | Arsenic     | mg/kg        | 1.35E+01   | 6.59E-06         | 1.86E-05      | 4.25E-09          |
| 195         | 11        | Surface      | Barium      | mg/kg        | 4.53E+02   | 2.22E-04         | 1.04E-03      | 1.43E-07          |
| 195         | 11        | Surface      | Chromium    | mg/kg        | 5.05E+01   | 2.47E-05         | 1.16E-04      | 1.59E-08          |
| 195         | 11        | Surface      | Cobalt      | mg/kg        | 2.77E+01   | 1.36E-05         | 6.37E-05      | 8.74E-09          |
| 195         | 11        | Surface      | Iron        | mg/kg        | 1.97E+04   | 9.64E-03         | 4.53E-02      | 6.22E-06          |
| 195         | 11        | Surface      | Nickel      | mg/kg        | 6.77E+01   | 3.31E-05         | 1.25E-04      | 2.14E-08          |
| 195         | 11        | Surface      | Thallium    | mg/kg        | 6.60E-01   | 3.23E-07         | 1.52E-06      | 2.08E-10          |
| 195         | 11        | Surface      | Vanadium    | mg/kg        | 7.97E+01   | 3.90E-05         | 9.53E-05      | 2.52E-08          |
| 195         | 12        | Surface      | Beryllium   | mg/kg        | 7.50E-01   | 3.67E-07         | 2.41E-07      | 2.37E-10          |
| 195         | 12        | Surface      | Chromium    | mg/kg        | 7.04E+01   | 3.44E-05         | 1.62E-04      | 2.22E-08          |
| 195         | 12        | Surface      | Nickel      | mg/kg        | 6.78E+01   | 3.31E-05         | 1.25E-04      | 2.14E-08          |
| 195         | 13        | Surface      | Chromium    | mg/kg        | 6.55E+01   | 3.20E-05         | 1.51E-04      | 2.07E-08          |
| 195         | 13        | Surface      | Nickel      | mg/kg        | 6.91E+01   | 3.38E-05         | 1.27E-04      | 2.18E-08          |
| 195         | 14        | Surface      | Chromium    | mg/kg        | 5.94E+01   | 2.91E-05         | 1.37E-04      | 1.88E-08          |
| 195         | 14        | Surface      | Nickel      | mg/kg        | 7.04E+01   | 3.44E-05         | 1.29E-04      | 2.22E-08          |
| 195         | 15        | Surface      | Chromium    | mg/kg        | 4.82E+01   | 2.36E-05         | 1.11E-04      | 1.52E-08          |
| 195         | 16        | Surface      | Chromium    | mg/kg        | 4.45E+01   | 2.18E-05         | 1.02E-04      | 1.40E-08          |
| 195         | 16        | Surface      | Nickel      | mg/kg        | 8.16E+01   | 3.99E-05         | 1.50E-04      | 2.57E-08          |
| 195         | 17        | Surface      | Chromium    | mg/kg        | 8.22E+01   | 4.02E-05         | 1.89E-04      | 2.59E-08          |
| 195         | 17        | Surface      | Mercury     | mg/kg        | 4.17E-01   | 2.04E-07         | 9.59E-07      | 3.92E-06          |
| 195         | 17        | Surface      | Nickel      | mg/kg        | 5.93E+01   | 2.90E-05         | 1.09E-04      | 1.87E-08          |
| 195         | 17        | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 3.62E-07         | 4.76E-06      | 3.94E-07          |
| 195         | 17        | Surface      | Silver      | mg/kg        | 1.01E+01   | 4.96E-06         | 1.87E-05      | 3.20E-09          |
| 195         | 17        | Surface      | Thallium    | mg/kg        | 5.40E-01   | 2.64E-07         | 1.24E-06      | 1.70E-10          |
| 195         | 17        | Surface      | Total PAH   | mg/kg        | 3.16E-01   | 1.55E-07         | 1.89E-06      | 7.37E-09          |
| 492         | 1         | Surface      | Arsenic     | mg/kg        | 1.47E+01   | 7.19E-06         | 2.03E-05      | 4.64E-09          |
| 492         | 1         | Surface      | Beryllium   | mg/kg        | 1.04E+01   | 5.09E-06         | 3.35E-06      | 3.28E-09          |
| 492         | 1         | Surface      | Cadmium     | mg/kg        | 3.14E+00   | 1.54E-06         | 1.44E-07      | 9.91E-10          |
| 492         | 1         | Surface      | Chromium    | mg/kg        | 1.04E+03   | 5.09E-04         | 2.39E-03      | 3.28E-07          |
| 492         | 1         | Surface      | PCB, Total  | mg/kg        | 4.41E+01   | 2.16E-05         | 2.84E-04      | 2.35E-05          |
| 492         | 1         | Surface      | Uranium     | mg/kg        | 1.77E+03   | 8.66E-04         | 4.07E-03      | 5.59E-07          |
| 492         | 1         | Surface      | Vanadium    | mg/kg        | 4.32E+01   | 2.11E-05         | 5.17E-05      | 1.36E-08          |
| 493         | 1         | Surface      | Aluminum    | mg/kg        | 1.44E+04   | 7.05E-03         | 3.31E-02      | 4.55E-06          |
| 493         | 1         | Surface      | Barium      | mg/kg        | 4.04E+02   | 1.98E-04         | 9.29E-04      | 1.28E-07          |
| 493         | 1         | Surface      | Beryllium   | mg/kg        | 9.91E-01   | 4.85E-07         | 3.19E-07      | 3.13E-10          |
| 493         | 1         | Surface      | Chromium    | mg/kg        | 6.61E+01   | 3.23E-05         | 1.52E-04      | 2.09E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 493         | 1         | Surface      | Cobalt      | mg/kg        | 3.79E+01   | 1.85E-05         | 8.71E-05      | 1.20E-08          |
| 493         | 1         | Surface      | Manganese   | mg/kg        | 3.55E+03   | 1.74E-03         | 6.53E-03      | 1.12E-06          |
| 493         | 1         | Surface      | Mercury     | mg/kg        | 2.60E-01   | 1.27E-07         | 5.98E-07      | 2.45E-06          |
| 493         | 1         | Surface      | Nickel      | mg/kg        | 2.13E+02   | 1.04E-04         | 3.92E-04      | 6.72E-08          |
| 493         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 1.27E-07         | 1.67E-06      | 1.38E-07          |
| 493         | 1         | Surface      | Total PAH   | mg/kg        | 5.00E-01   | 2.45E-07         | 2.99E-06      | 1.17E-08          |
| 493         | 1         | Surface      | Vanadium    | mg/kg        | 4.05E+01   | 1.98E-05         | 4.84E-05      | 1.28E-08          |
| 517         | 1         | Surface      | Beryllium   | mg/kg        | 7.39E-01   | 3.62E-07         | 2.38E-07      | 2.33E-10          |
| 517         | 1         | Surface      | Chromium    | mg/kg        | 4.91E+01   | 2.40E-05         | 1.13E-04      | 1.55E-08          |
| 517         | 1         | Surface      | Nickel      | mg/kg        | 1.72E+02   | 8.41E-05         | 3.16E-04      | 5.43E-08          |
| 517         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 2.45E-07         | 3.22E-06      | 2.66E-07          |
| 541         | 1         | Surface      | Aluminum    | mg/kg        | 1.43E+04   | 6.99E-03         | 3.29E-02      | 4.51E-06          |
| 541         | 1         | Surface      | Barium      | mg/kg        | 1.28E+02   | 6.26E-05         | 2.94E-04      | 4.04E-08          |
| 541         | 1         | Surface      | Beryllium   | mg/kg        | 6.98E-01   | 3.41E-07         | 2.25E-07      | 2.20E-10          |
| 541         | 1         | Surface      | Cadmium     | mg/kg        | 1.68E+00   | 8.23E-07         | 7.74E-08      | 5.31E-10          |
| 541         | 1         | Surface      | Chromium    | mg/kg        | 8.24E+02   | 4.03E-04         | 1.89E-03      | 2.60E-07          |
| 541         | 1         | Surface      | Iron        | mg/kg        | 1.60E+04   | 7.81E-03         | 3.67E-02      | 5.04E-06          |
| 541         | 1         | Surface      | Mercury     | mg/kg        | 9.81E-02   | 4.80E-08         | 2.26E-07      | 9.23E-07          |
| 541         | 1         | Surface      | Naphthalene | mg/kg        | 6.55E-01   | 3.20E-07         | 7.53E-06      | 6.89E-06          |
| 541         | 1         | Surface      | Nickel      | mg/kg        | 1.52E+01   | 7.46E-06         | 2.80E-05      | 4.81E-09          |
| 541         | 1         | Surface      | PCB, Total  | mg/kg        | 6.06E+01   | 2.97E-05         | 3.90E-04      | 3.23E-05          |
| 541         | 1         | Surface      | Total PAH   | mg/kg        | 2.33E+00   | 1.14E-06         | 1.39E-05      | 5.44E-08          |
| 541         | 1         | Surface      | Uranium     | mg/kg        | 6.38E+03   | 3.12E-03         | 1.47E-02      | 2.01E-06          |
| 541         | 1         | Surface      | Vanadium    | mg/kg        | 3.04E+01   | 1.49E-05         | 3.64E-05      | 9.61E-09          |
| 561         | 1         | Surface      | Antimony    | mg/kg        | 9.36E-01   | 4.58E-07         | 2.15E-06      | 2.95E-10          |
| 561         | 1         | Surface      | Arsenic     | mg/kg        | 1.66E+01   | 8.10E-06         | 2.28E-05      | 5.22E-09          |
| 561         | 1         | Surface      | Barium      | mg/kg        | 1.40E+02   | 6.86E-05         | 3.22E-04      | 4.43E-08          |
| 561         | 1         | Surface      | Beryllium   | mg/kg        | 6.85E-01   | 3.35E-07         | 2.21E-07      | 2.16E-10          |
| 561         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 4.20E-05         | 1.97E-04      | 2.71E-08          |
| 561         | 1         | Surface      | Cobalt      | mg/kg        | 1.07E+01   | 5.23E-06         | 2.46E-05      | 3.37E-09          |
| 561         | 1         | Surface      | Iron        | mg/kg        | 2.05E+04   | 1.00E-02         | 4.71E-02      | 6.46E-06          |
| 561         | 1         | Surface      | Manganese   | mg/kg        | 1.61E+03   | 7.87E-04         | 2.96E-03      | 5.08E-07          |
| 561         | 1         | Surface      | PCB, Total  | mg/kg        | 1.04E+00   | 5.10E-07         | 6.71E-06      | 5.54E-07          |
| 561         | 1         | Surface      | Thallium    | mg/kg        | 3.33E-01   | 1.63E-07         | 7.66E-07      | 1.05E-10          |
| 561         | 1         | Surface      | Total PAH   | mg/kg        | 3.94E-01   | 1.93E-07         | 2.36E-06      | 9.20E-09          |
| 561         | 1         | Surface      | Uranium     | mg/kg        | 2.65E+02   | 1.30E-04         | 6.09E-04      | 8.36E-08          |
| 561         | 1         | Surface      | Vanadium    | mg/kg        | 3.76E+01   | 1.84E-05         | 4.50E-05      | 1.19E-08          |
| 561         | 2         | Surface      | Antimony    | mg/kg        | 5.33E+00   | 2.61E-06         | 1.23E-05      | 1.68E-09          |
| 561         | 2         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 6.36E-06         | 1.79E-05      | 4.11E-09          |
| 561         | 2         | Surface      | Beryllium   | mg/kg        | 6.34E-01   | 3.10E-07         | 2.04E-07      | 2.00E-10          |
| 561         | 2         | Surface      | Cadmium     | mg/kg        | 4.13E-01   | 2.02E-07         | 1.90E-08      | 1.30E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 561         | 2         | Surface      | Chromium    | mg/kg        | 2.88E+02   | 1.41E-04         | 6.63E-04      | 9.10E-08          |
| 561         | 2         | Surface      | Cobalt      | mg/kg        | 1.14E+01   | 5.58E-06         | 2.62E-05      | 3.60E-09          |
| 561         | 2         | Surface      | Manganese   | mg/kg        | 1.12E+03   | 5.45E-04         | 2.05E-03      | 3.52E-07          |
| 561         | 2         | Surface      | PCB, Total  | mg/kg        | 1.64E+01   | 8.03E-06         | 1.06E-04      | 8.74E-06          |
| 561         | 2         | Surface      | Thallium    | mg/kg        | 4.09E-01   | 2.00E-07         | 9.40E-07      | 1.29E-10          |
| 561         | 2         | Surface      | Total PAH   | mg/kg        | 2.43E+00   | 1.19E-06         | 1.45E-05      | 5.67E-08          |
| 561         | 2         | Surface      | Uranium     | mg/kg        | 1.38E+03   | 6.77E-04         | 3.18E-03      | 4.37E-07          |
| 561         | 2         | Surface      | Vanadium    | mg/kg        | 3.46E+01   | 1.69E-05         | 4.13E-05      | 1.09E-08          |
| 562         | 1         | Surface      | Uranium     | mg/kg        | 8.73E+01   | 4.27E-05         | 2.01E-04      | 2.76E-08          |
| 562         | 2         | Surface      | PCB, Total  | mg/kg        | 1.58E+00   | 7.73E-07         | 1.02E-05      | 8.41E-07          |
| 562         | 3         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 1.87E-05         | 8.77E-05      | 1.20E-08          |
| 562         | 3         | Surface      | PCB, Total  | mg/kg        | 2.40E-01   | 1.17E-07         | 1.55E-06      | 1.28E-07          |
| 562         | 3         | Surface      | Total PAH   | mg/kg        | 2.20E-01   | 1.08E-07         | 1.32E-06      | 5.13E-09          |
| 562         | 3         | Surface      | Uranium     | mg/kg        | 5.89E+01   | 2.88E-05         | 1.35E-04      | 1.86E-08          |
| 562         | 4         | Surface      | Chromium    | mg/kg        | 4.67E+01   | 2.28E-05         | 1.07E-04      | 1.47E-08          |
| 562         | 4         | Surface      | Uranium     | mg/kg        | 2.10E+01   | 1.03E-05         | 4.83E-05      | 6.63E-09          |
| 562         | 5         | Surface      | Chromium    | mg/kg        | 1.53E+02   | 7.49E-05         | 3.52E-04      | 4.83E-08          |
| 562         | 5         | Surface      | PCB, Total  | mg/kg        | 9.50E-01   | 4.65E-07         | 6.12E-06      | 5.05E-07          |
| 562         | 5         | Surface      | Total PAH   | mg/kg        | 7.05E-02   | 3.45E-08         | 4.21E-07      | 1.65E-09          |
| 562         | 5         | Surface      | Uranium     | mg/kg        | 2.08E+02   | 1.02E-04         | 4.78E-04      | 6.57E-08          |
| 563         | 1         | Surface      | Cadmium     | mg/kg        | 8.96E-01   | 4.38E-07         | 4.12E-08      | 2.83E-10          |
| 563         | 1         | Surface      | Chromium    | mg/kg        | 2.85E+02   | 1.39E-04         | 6.55E-04      | 9.00E-08          |
| 563         | 1         | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 3.62E-07         | 4.76E-06      | 3.94E-07          |
| 563         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 7.38E-06         | 3.47E-05      | 4.76E-09          |
| 564         | 1         | Surface      | Arsenic     | mg/kg        | 4.30E+01   | 2.10E-05         | 5.93E-05      | 1.36E-08          |
| 564         | 1         | Surface      | Beryllium   | mg/kg        | 2.12E+00   | 1.04E-06         | 6.82E-07      | 6.69E-10          |
| 564         | 1         | Surface      | Cadmium     | mg/kg        | 1.96E+00   | 9.59E-07         | 9.01E-08      | 6.19E-10          |
| 564         | 1         | Surface      | Chromium    | mg/kg        | 7.49E+01   | 3.67E-05         | 1.72E-04      | 2.36E-08          |
| 564         | 1         | Surface      | Iron        | mg/kg        | 3.66E+04   | 1.79E-02         | 8.42E-02      | 1.16E-05          |
| 564         | 1         | Surface      | Mercury     | mg/kg        | 2.30E-01   | 1.13E-07         | 5.29E-07      | 2.16E-06          |
| 564         | 1         | Surface      | Nickel      | mg/kg        | 2.24E+01   | 1.10E-05         | 4.12E-05      | 7.07E-09          |
| 564         | 1         | Surface      | PCB, Total  | mg/kg        | 1.93E+00   | 9.44E-07         | 1.24E-05      | 1.03E-06          |
| 564         | 1         | Surface      | Thallium    | mg/kg        | 2.36E+00   | 1.15E-06         | 5.43E-06      | 7.45E-10          |
| 564         | 1         | Surface      | Uranium     | mg/kg        | 5.83E+01   | 2.85E-05         | 1.34E-04      | 1.84E-08          |
| 564         | 1         | Surface      | Vanadium    | mg/kg        | 8.06E+01   | 3.94E-05         | 9.64E-05      | 2.54E-08          |
| 567         | 3         | Surface      | Chromium    | mg/kg        | 3.79E+01   | 1.85E-05         | 8.71E-05      | 1.20E-08          |
| 567         | 4         | Surface      | Aluminum    | mg/kg        | 1.25E+04   | 6.13E-03         | 2.88E-02      | 3.95E-06          |
| 567         | 4         | Surface      | Chromium    | mg/kg        | 1.63E+01   | 7.97E-06         | 3.75E-05      | 5.14E-09          |
| 14          | 1         | Surface      | Arsenic     | mg/kg        | 1.10E+01   | 5.37E-06         | 1.51E-05      | 3.47E-09          |
| 14          | 1         | Surface      | Chromium    | mg/kg        | 6.36E+01   | 3.11E-05         | 1.46E-04      | 2.01E-08          |
| 14          | 1         | Surface      | Iron        | mg/kg        | 1.89E+04   | 9.23E-03         | 4.34E-02      | 5.95E-06          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 1         | Surface      | Nickel      | mg/kg        | 1.40E+02   | 6.83E-05         | 2.57E-04      | 4.41E-08          |
| 14          | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 2.45E-07         | 3.22E-06      | 2.66E-07          |
| 14          | 1         | Surface      | Silver      | mg/kg        | 1.67E+01   | 8.17E-06         | 3.07E-05      | 5.27E-09          |
| 14          | 1         | Surface      | Uranium     | mg/kg        | 7.21E+01   | 3.53E-05         | 1.66E-04      | 2.28E-08          |
| 14          | 2         | Surface      | Antimony    | mg/kg        | 3.70E+00   | 1.81E-06         | 8.51E-06      | 1.17E-09          |
| 14          | 2         | Surface      | Arsenic     | mg/kg        | 1.45E+01   | 7.11E-06         | 2.00E-05      | 4.59E-09          |
| 14          | 2         | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 3.47E-07         | 2.29E-07      | 2.24E-10          |
| 14          | 2         | Surface      | Chromium    | mg/kg        | 6.65E+01   | 3.26E-05         | 1.53E-04      | 2.10E-08          |
| 14          | 2         | Surface      | Copper      | mg/kg        | 1.76E+02   | 8.63E-05         | 4.06E-04      | 5.57E-08          |
| 14          | 2         | Surface      | Iron        | mg/kg        | 3.72E+04   | 1.82E-02         | 8.55E-02      | 1.17E-05          |
| 14          | 2         | Surface      | Manganese   | mg/kg        | 1.44E+03   | 7.05E-04         | 2.65E-03      | 4.55E-07          |
| 14          | 2         | Surface      | Mercury     | mg/kg        | 2.67E-01   | 1.31E-07         | 6.14E-07      | 2.51E-06          |
| 14          | 2         | Surface      | Nickel      | mg/kg        | 6.78E+02   | 3.32E-04         | 1.25E-03      | 2.14E-07          |
| 14          | 2         | Surface      | PCB, Total  | mg/kg        | 3.90E-01   | 1.91E-07         | 2.51E-06      | 2.08E-07          |
| 14          | 2         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 1.65E-07         | 2.02E-06      | 7.89E-09          |
| 14          | 2         | Surface      | Uranium     | mg/kg        | 2.93E+02   | 1.43E-04         | 6.74E-04      | 9.26E-08          |
| 14          | 3         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 6.35E-06         | 1.79E-05      | 4.09E-09          |
| 14          | 3         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 3.43E-05         | 1.61E-04      | 2.21E-08          |
| 14          | 3         | Surface      | Copper      | mg/kg        | 1.29E+02   | 6.33E-05         | 2.97E-04      | 4.08E-08          |
| 14          | 3         | Surface      | Iron        | mg/kg        | 3.48E+04   | 1.70E-02         | 8.01E-02      | 1.10E-05          |
| 14          | 3         | Surface      | Manganese   | mg/kg        | 1.06E+03   | 5.17E-04         | 1.94E-03      | 3.34E-07          |
| 14          | 3         | Surface      | Mercury     | mg/kg        | 7.48E+00   | 3.66E-06         | 1.72E-05      | 7.04E-05          |
| 14          | 3         | Surface      | Molybdenum  | mg/kg        | 2.21E+01   | 1.08E-05         | 5.07E-05      | 6.97E-09          |
| 14          | 3         | Surface      | Nickel      | mg/kg        | 5.76E+02   | 2.82E-04         | 1.06E-03      | 1.82E-07          |
| 14          | 3         | Surface      | PCB, Total  | mg/kg        | 8.65E+00   | 4.23E-06         | 5.57E-05      | 4.60E-06          |
| 14          | 3         | Surface      | Uranium     | mg/kg        | 2.18E+02   | 1.07E-04         | 5.01E-04      | 6.87E-08          |
| 14          | 4         | Surface      | Antimony    | mg/kg        | 4.30E+00   | 2.10E-06         | 9.89E-06      | 1.36E-09          |
| 14          | 4         | Surface      | Arsenic     | mg/kg        | 1.33E+01   | 6.50E-06         | 1.83E-05      | 4.19E-09          |
| 14          | 4         | Surface      | Chromium    | mg/kg        | 7.20E+01   | 3.52E-05         | 1.66E-04      | 2.27E-08          |
| 14          | 4         | Surface      | Copper      | mg/kg        | 3.54E+02   | 1.73E-04         | 8.13E-04      | 1.12E-07          |
| 14          | 4         | Surface      | Iron        | mg/kg        | 3.88E+04   | 1.90E-02         | 8.93E-02      | 1.23E-05          |
| 14          | 4         | Surface      | Mercury     | mg/kg        | 4.87E-01   | 2.38E-07         | 1.12E-06      | 4.58E-06          |
| 14          | 4         | Surface      | Nickel      | mg/kg        | 7.31E+02   | 3.57E-04         | 1.34E-03      | 2.31E-07          |
| 14          | 4         | Surface      | PCB, Total  | mg/kg        | 6.61E+00   | 3.23E-06         | 4.25E-05      | 3.52E-06          |
| 14          | 4         | Surface      | Silver      | mg/kg        | 1.17E+01   | 5.72E-06         | 2.15E-05      | 3.69E-09          |
| 14          | 4         | Surface      | Total PAH   | mg/kg        | 2.51E-01   | 1.23E-07         | 1.50E-06      | 5.85E-09          |
| 14          | 4         | Surface      | Uranium     | mg/kg        | 3.72E+02   | 1.82E-04         | 8.55E-04      | 1.17E-07          |
| 14          | 5         | Surface      | Antimony    | mg/kg        | 2.30E+00   | 1.13E-06         | 5.29E-06      | 7.26E-10          |
| 14          | 5         | Surface      | Arsenic     | mg/kg        | 1.31E+01   | 6.40E-06         | 1.80E-05      | 4.13E-09          |
| 14          | 5         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 1.91E-06         | 1.79E-07      | 1.23E-09          |
| 14          | 5         | Surface      | Chromium    | mg/kg        | 4.70E+01   | 2.30E-05         | 1.08E-04      | 1.48E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 5         | Surface      | Cobalt      | mg/kg        | 1.40E+01   | 6.85E-06         | 3.22E-05      | 4.42E-09          |
| 14          | 5         | Surface      | Copper      | mg/kg        | 1.34E+02   | 6.53E-05         | 3.07E-04      | 4.21E-08          |
| 14          | 5         | Surface      | Iron        | mg/kg        | 3.92E+04   | 1.92E-02         | 9.01E-02      | 1.24E-05          |
| 14          | 5         | Surface      | Manganese   | mg/kg        | 8.28E+02   | 4.05E-04         | 1.52E-03      | 2.61E-07          |
| 14          | 5         | Surface      | Mercury     | mg/kg        | 1.09E+01   | 5.35E-06         | 2.52E-05      | 1.03E-04          |
| 14          | 5         | Surface      | Nickel      | mg/kg        | 4.61E+02   | 2.26E-04         | 8.49E-04      | 1.46E-07          |
| 14          | 5         | Surface      | PCB, Total  | mg/kg        | 1.00E+00   | 4.89E-07         | 6.44E-06      | 5.32E-07          |
| 14          | 5         | Surface      | Silver      | mg/kg        | 1.29E+01   | 6.30E-06         | 2.37E-05      | 4.06E-09          |
| 14          | 5         | Surface      | Thallium    | mg/kg        | 4.10E-01   | 2.01E-07         | 9.43E-07      | 1.29E-10          |
| 14          | 5         | Surface      | Total PAH   | mg/kg        | 1.21E-01   | 5.92E-08         | 7.23E-07      | 2.82E-09          |
| 14          | 5         | Surface      | Uranium     | mg/kg        | 2.62E+02   | 1.28E-04         | 6.03E-04      | 8.28E-08          |
| 14          | 6         | Surface      | Antimony    | mg/kg        | 2.70E+00   | 1.32E-06         | 6.21E-06      | 8.52E-10          |
| 14          | 6         | Surface      | Cadmium     | mg/kg        | 8.40E-01   | 4.11E-07         | 3.86E-08      | 2.65E-10          |
| 14          | 6         | Surface      | Chromium    | mg/kg        | 4.46E+02   | 2.18E-04         | 1.03E-03      | 1.41E-07          |
| 14          | 6         | Surface      | Copper      | mg/kg        | 1.22E+02   | 5.98E-05         | 2.81E-04      | 3.86E-08          |
| 14          | 6         | Surface      | Mercury     | mg/kg        | 3.47E-01   | 1.70E-07         | 7.98E-07      | 3.26E-06          |
| 14          | 6         | Surface      | Nickel      | mg/kg        | 9.63E+02   | 4.71E-04         | 1.77E-03      | 3.04E-07          |
| 14          | 6         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 2.45E-06         | 3.22E-05      | 2.66E-06          |
| 14          | 6         | Surface      | Silver      | mg/kg        | 1.19E+01   | 5.81E-06         | 2.19E-05      | 3.75E-09          |
| 14          | 6         | Surface      | Uranium     | mg/kg        | 5.79E+02   | 2.83E-04         | 1.33E-03      | 1.83E-07          |
| 14          | 7         | Surface      | Antimony    | mg/kg        | 7.50E-01   | 3.67E-07         | 1.72E-06      | 2.37E-10          |
| 14          | 7         | Surface      | Arsenic     | mg/kg        | 1.13E+01   | 5.53E-06         | 1.56E-05      | 3.57E-09          |
| 14          | 7         | Surface      | Cadmium     | mg/kg        | 2.70E+00   | 1.32E-06         | 1.24E-07      | 8.52E-10          |
| 14          | 7         | Surface      | Chromium    | mg/kg        | 6.46E+01   | 3.16E-05         | 1.48E-04      | 2.04E-08          |
| 14          | 7         | Surface      | Mercury     | mg/kg        | 7.82E+00   | 3.83E-06         | 1.80E-05      | 7.36E-05          |
| 14          | 7         | Surface      | Nickel      | mg/kg        | 1.22E+03   | 5.98E-04         | 2.25E-03      | 3.86E-07          |
| 14          | 7         | Surface      | PCB, Total  | mg/kg        | 7.60E+00   | 3.72E-06         | 4.90E-05      | 4.05E-06          |
| 14          | 7         | Surface      | Total PAH   | mg/kg        | 6.31E-02   | 3.09E-08         | 3.77E-07      | 1.47E-09          |
| 14          | 7         | Surface      | Uranium     | mg/kg        | 3.33E+02   | 1.63E-04         | 7.65E-04      | 1.05E-07          |
| 14          | 8         | Surface      | Antimony    | mg/kg        | 6.10E-01   | 2.98E-07         | 1.40E-06      | 1.93E-10          |
| 14          | 8         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 5.57E-06         | 1.57E-05      | 3.59E-09          |
| 14          | 8         | Surface      | Chromium    | mg/kg        | 4.60E+01   | 2.25E-05         | 1.06E-04      | 1.45E-08          |
| 14          | 8         | Surface      | Mercury     | mg/kg        | 7.90E+00   | 3.86E-06         | 1.82E-05      | 7.43E-05          |
| 14          | 8         | Surface      | Nickel      | mg/kg        | 6.73E+02   | 3.29E-04         | 1.24E-03      | 2.12E-07          |
| 14          | 8         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 2.45E-06         | 3.22E-05      | 2.66E-06          |
| 14          | 8         | Surface      | Silver      | mg/kg        | 9.63E+00   | 4.71E-06         | 1.77E-05      | 3.04E-09          |
| 14          | 8         | Surface      | Total PAH   | mg/kg        | 6.28E-02   | 3.07E-08         | 3.75E-07      | 1.46E-09          |
| 14          | 8         | Surface      | Uranium     | mg/kg        | 3.35E+02   | 1.64E-04         | 7.71E-04      | 1.06E-07          |
| 14          | 9         | Surface      | Antimony    | mg/kg        | 2.00E+00   | 9.78E-07         | 4.60E-06      | 6.31E-10          |
| 14          | 9         | Surface      | Arsenic     | mg/kg        | 1.40E+01   | 6.87E-06         | 1.94E-05      | 4.43E-09          |
| 14          | 9         | Surface      | Cadmium     | mg/kg        | 9.40E-01   | 4.60E-07         | 4.32E-08      | 2.97E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 9         | Surface      | Chromium    | mg/kg        | 4.64E+01   | 2.27E-05         | 1.07E-04      | 1.47E-08          |
| 14          | 9         | Surface      | Mercury     | mg/kg        | 1.13E+00   | 5.53E-07         | 2.60E-06      | 1.06E-05          |
| 14          | 9         | Surface      | Nickel      | mg/kg        | 9.43E+02   | 4.62E-04         | 1.74E-03      | 2.98E-07          |
| 14          | 9         | Surface      | PCB, Total  | mg/kg        | 6.84E+00   | 3.35E-06         | 4.41E-05      | 3.64E-06          |
| 14          | 9         | Surface      | Total PAH   | mg/kg        | 4.87E-01   | 2.38E-07         | 2.91E-06      | 1.14E-08          |
| 14          | 9         | Surface      | Uranium     | mg/kg        | 1.46E+03   | 7.16E-04         | 3.37E-03      | 4.62E-07          |
| 14          | 10        | Surface      | Antimony    | mg/kg        | 9.40E-01   | 4.60E-07         | 2.16E-06      | 2.97E-10          |
| 14          | 10        | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 5.50E-06         | 1.55E-05      | 3.55E-09          |
| 14          | 10        | Surface      | Chromium    | mg/kg        | 4.19E+01   | 2.05E-05         | 9.62E-05      | 1.32E-08          |
| 14          | 10        | Surface      | Copper      | mg/kg        | 1.41E+02   | 6.91E-05         | 3.25E-04      | 4.46E-08          |
| 14          | 10        | Surface      | Iron        | mg/kg        | 2.75E+04   | 1.34E-02         | 6.31E-02      | 8.66E-06          |
| 14          | 10        | Surface      | Mercury     | mg/kg        | 2.51E+01   | 1.23E-05         | 5.77E-05      | 2.36E-04          |
| 14          | 10        | Surface      | Nickel      | mg/kg        | 6.00E+02   | 2.94E-04         | 1.10E-03      | 1.90E-07          |
| 14          | 10        | Surface      | PCB, Total  | mg/kg        | 9.38E+00   | 4.59E-06         | 6.04E-05      | 4.99E-06          |
| 14          | 10        | Surface      | Total PAH   | mg/kg        | 2.72E-01   | 1.33E-07         | 1.62E-06      | 6.34E-09          |
| 14          | 10        | Surface      | Uranium     | mg/kg        | 2.88E+02   | 1.41E-04         | 6.63E-04      | 9.10E-08          |
| 518         | 1         | Surface      | Carbazole   | mg/kg        | 1.17E+01   | 5.73E-06         | 5.39E-05      | 1.72E-06          |
| 518         | 1         | Surface      | Cobalt      | mg/kg        | 6.80E+00   | 3.33E-06         | 1.56E-05      | 2.15E-09          |
| 518         | 1         | Surface      | Nickel      | mg/kg        | 1.29E+01   | 6.29E-06         | 2.37E-05      | 4.06E-09          |
| 518         | 1         | Surface      | PCB, Total  | mg/kg        | 6.30E-01   | 3.08E-07         | 4.06E-06      | 3.35E-07          |
| 518         | 1         | Surface      | Pyrene      | mg/kg        | 3.94E+01   | 1.93E-05         | 2.36E-04      | 8.18E-06          |
| 518         | 1         | Surface      | Total PAH   | mg/kg        | 3.90E+01   | 1.91E-05         | 2.33E-04      | 9.09E-07          |
| 518         | 1         | Surface      | Uranium     | mg/kg        | 2.17E+02   | 1.06E-04         | 4.99E-04      | 6.85E-08          |
| 520         | 1         | Surface      | Chromium    | mg/kg        | 3.17E+01   | 1.55E-05         | 7.30E-05      | 1.00E-08          |
| 520         | 1         | Surface      | Iron        | mg/kg        | 1.56E+04   | 7.63E-03         | 3.58E-02      | 4.92E-06          |
| 520         | 1         | Surface      | Mercury     | mg/kg        | 1.07E+01   | 5.23E-06         | 2.46E-05      | 1.00E-04          |
| 520         | 1         | Surface      | Nickel      | mg/kg        | 2.60E+02   | 1.27E-04         | 4.79E-04      | 8.22E-08          |
| 520         | 1         | Surface      | Silver      | mg/kg        | 1.30E+01   | 6.35E-06         | 2.39E-05      | 4.09E-09          |
| 520         | 1         | Surface      | Total PAH   | mg/kg        | 3.18E-02   | 1.56E-08         | 1.90E-07      | 7.43E-10          |
| 520         | 1         | Surface      | Uranium     | mg/kg        | 2.29E+01   | 1.12E-05         | 5.27E-05      | 7.24E-09          |
| 520         | 2         | Surface      | Beryllium   | mg/kg        | 5.79E-01   | 2.83E-07         | 1.86E-07      | 1.83E-10          |
| 520         | 2         | Surface      | Chromium    | mg/kg        | 6.67E+01   | 3.26E-05         | 1.53E-04      | 2.10E-08          |
| 520         | 2         | Surface      | Manganese   | mg/kg        | 5.89E+02   | 2.88E-04         | 1.08E-03      | 1.86E-07          |
| 520         | 2         | Surface      | Mercury     | mg/kg        | 1.19E+01   | 5.81E-06         | 2.73E-05      | 1.12E-04          |
| 520         | 2         | Surface      | Nickel      | mg/kg        | 3.11E+02   | 1.52E-04         | 5.71E-04      | 9.80E-08          |
| 520         | 2         | Surface      | Total PAH   | mg/kg        | 3.17E-01   | 1.55E-07         | 1.90E-06      | 7.40E-09          |
| 520         | 2         | Surface      | Uranium     | mg/kg        | 3.96E+01   | 1.94E-05         | 9.10E-05      | 1.25E-08          |
| 520         | 3         | Surface      | Chromium    | mg/kg        | 3.97E+01   | 1.94E-05         | 9.12E-05      | 1.25E-08          |
| 520         | 3         | Surface      | Copper      | mg/kg        | 1.19E+02   | 5.82E-05         | 2.74E-04      | 3.76E-08          |
| 520         | 3         | Surface      | Nickel      | mg/kg        | 2.65E+02   | 1.30E-04         | 4.87E-04      | 8.36E-08          |
| 520         | 3         | Surface      | Silver      | mg/kg        | 1.27E+01   | 6.20E-06         | 2.33E-05      | 4.00E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.11. Noncancerous CDIs for the Default Industrial Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 520         | 3         | Surface      | Total PAH   | mg/kg        | 1.18E-01   | 5.78E-08         | 7.06E-07      | 2.76E-09          |
| 520         | 3         | Surface      | Uranium     | mg/kg        | 1.92E+01   | 9.41E-06         | 4.42E-05      | 6.07E-09          |
| 520         | 4         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 1.87E-05         | 8.79E-05      | 1.21E-08          |
| 520         | 4         | Surface      | Copper      | mg/kg        | 1.11E+02   | 5.41E-05         | 2.54E-04      | 3.49E-08          |
| 520         | 4         | Surface      | Mercury     | mg/kg        | 9.69E+00   | 4.74E-06         | 2.23E-05      | 9.12E-05          |
| 520         | 4         | Surface      | Nickel      | mg/kg        | 2.82E+02   | 1.38E-04         | 5.19E-04      | 8.90E-08          |
| 520         | 4         | Surface      | Silver      | mg/kg        | 1.04E+01   | 5.11E-06         | 1.92E-05      | 3.30E-09          |
| 520         | 4         | Surface      | Total PAH   | mg/kg        | 5.52E-01   | 2.70E-07         | 3.30E-06      | 1.29E-08          |
| 520         | 4         | Surface      | Uranium     | mg/kg        | 2.40E+01   | 1.18E-05         | 5.52E-05      | 7.58E-09          |
| 520         | 5         | Surface      | Antimony    | mg/kg        | 9.60E-01   | 4.70E-07         | 2.21E-06      | 3.03E-10          |
| 520         | 5         | Surface      | Chromium    | mg/kg        | 3.68E+01   | 1.80E-05         | 8.47E-05      | 1.16E-08          |
| 520         | 5         | Surface      | Nickel      | mg/kg        | 1.47E+02   | 7.19E-05         | 2.70E-04      | 4.64E-08          |
| 520         | 5         | Surface      | Total PAH   | mg/kg        | 3.87E-01   | 1.89E-07         | 2.32E-06      | 9.04E-09          |
| 81          | 1         | Surface      | Aluminum    | mg/kg        | 9.57E+03   | 4.68E-03         | 2.20E-02      | 3.02E-06          |
| 81          | 1         | Surface      | Arsenic     | mg/kg        | 1.03E+01   | 5.01E-06         | 1.41E-05      | 3.24E-09          |
| 81          | 1         | Surface      | Beryllium   | mg/kg        | 7.57E-01   | 3.70E-07         | 2.44E-07      | 2.39E-10          |
| 81          | 1         | Surface      | Chromium    | mg/kg        | 8.62E+01   | 4.22E-05         | 1.98E-04      | 2.72E-08          |
| 81          | 1         | Surface      | Mercury     | mg/kg        | 8.33E+00   | 4.08E-06         | 1.92E-05      | 7.84E-05          |
| 81          | 1         | Surface      | Nickel      | mg/kg        | 7.29E+01   | 3.57E-05         | 1.34E-04      | 2.30E-08          |
| 81          | 1         | Surface      | PCB, Total  | mg/kg        | 1.60E+02   | 7.82E-05         | 1.03E-03      | 8.50E-05          |
| 81          | 1         | Surface      | Silver      | mg/kg        | 2.70E+00   | 1.32E-06         | 4.97E-06      | 8.52E-10          |
| 81          | 1         | Surface      | Total PAH   | mg/kg        | 5.53E-01   | 2.71E-07         | 3.31E-06      | 1.29E-08          |
| 81          | 1         | Surface      | Uranium     | mg/kg        | 6.50E+03   | 3.18E-03         | 1.49E-02      | 2.05E-06          |
| 153         | 1         | Surface      | PCB, Total  | mg/kg        | 5.09E-01   | 2.49E-07         | 3.28E-06      | 2.71E-07          |
| 153         | 1         | Surface      | Total PAH   | mg/kg        | 8.69E-02   | 4.25E-08         | 5.20E-07      | 2.03E-09          |
| 156         | 1         | Surface      | Chromium    | mg/kg        | 4.90E+01   | 2.40E-05         | 1.13E-04      | 1.55E-08          |
| 156         | 1         | Surface      | Manganese   | mg/kg        | 2.83E+03   | 1.39E-03         | 5.21E-03      | 8.94E-07          |
| 156         | 1         | Surface      | Mercury     | mg/kg        | 9.87E+00   | 4.83E-06         | 2.27E-05      | 9.29E-05          |
| 156         | 1         | Surface      | Nickel      | mg/kg        | 6.16E+01   | 3.01E-05         | 1.13E-04      | 1.94E-08          |
| 156         | 1         | Surface      | PCB, Total  | mg/kg        | 3.00E-01   | 1.47E-07         | 1.93E-06      | 1.60E-07          |
| 156         | 1         | Surface      | Total PAH   | mg/kg        | 8.26E-02   | 4.04E-08         | 4.94E-07      | 1.93E-09          |
| 156         | 1         | Surface      | Uranium     | mg/kg        | 2.32E+01   | 1.13E-05         | 5.33E-05      | 7.32E-09          |
| 160         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 3.33E-07         | 1.56E-06      | 2.15E-10          |
| 160         | 1         | Surface      | Total PAH   | mg/kg        | 5.29E-02   | 2.59E-08         | 3.16E-07      | 1.23E-09          |
| 163         | 1         | Surface      | Chromium    | mg/kg        | 4.94E+01   | 2.42E-05         | 1.14E-04      | 1.56E-08          |
| 163         | 1         | Surface      | Total PAH   | mg/kg        | 1.63E-01   | 7.97E-08         | 9.74E-07      | 3.80E-09          |
| 219         | 1         | Surface      | Nickel      | mg/kg        | 6.71E+01   | 3.28E-05         | 1.23E-04      | 2.12E-08          |
| 219         | 1         | Surface      | Total PAH   | mg/kg        | 7.50E-02   | 3.67E-08         | 4.49E-07      | 1.75E-09          |
| 488         | 1         | Surface      | PCB, Total  | mg/kg        | 1.03E+01   | 5.04E-06         | 6.63E-05      | 5.48E-06          |
| 488         | 1         | Surface      | Total PAH   | mg/kg        | 2.50E-01   | 1.22E-07         | 1.49E-06      | 5.83E-09          |
| 488         | 1         | Surface      | Uranium     | mg/kg        | 1.48E+01   | 7.24E-06         | 3.40E-05      | 4.67E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 1    | 1  | Surface | Beryllium         | mg/kg | 3.89E+00 | 6.80E-07  | 4.48E-07 | 4.39E-10   |                   |
| 1    | 1  | Surface | Cadmium           | mg/kg | 1.10E+00 | 1.92E-07  | 1.81E-08 | 1.24E-10   |                   |
| 1    | 1  | Surface | Chromium          | mg/kg | 1.28E+01 | 2.24E-06  | 1.05E-05 | 1.45E-09   |                   |
| 1    | 1  | Surface | PCB, Total        | mg/kg | 1.76E-01 | 3.08E-08  | 4.05E-07 | 3.34E-08   |                   |
| 1    | 1  | Surface | Cesium-137        | pCi/g | 5.91E-01 | 1.85E+02  |          | 1.19E-01   | 2.70E+00          |
| 1    | 1  | Surface | Neptunium-237     | pCi/g | 4.02E-01 | 1.26E+02  |          | 8.10E-02   | 1.84E+00          |
| 1    | 1  | Surface | Plutonium-239/240 | pCi/g | 6.14E+00 | 1.92E+03  |          | 1.24E+00   | 2.80E+01          |
| 1    | 1  | Surface | Thorium-230       | pCi/g | 4.40E+01 | 1.38E+04  |          | 8.87E+00   | 2.01E+02          |
| 1    | 1  | Surface | Uranium-235       | pCi/g | 1.06E-01 | 3.31E+01  |          | 2.14E-02   | 4.84E-01          |
| 1    | 1  | Surface | Uranium-238       | pCi/g | 1.97E+00 | 6.17E+02  |          | 3.98E-01   | 9.01E+00          |
| 1    | 2  | Surface | Beryllium         | mg/kg | 8.23E+00 | 1.44E-06  | 9.46E-07 | 9.28E-10   |                   |
| 1    | 2  | Surface | Cadmium           | mg/kg | 6.46E+00 | 1.13E-06  | 1.06E-07 | 7.28E-10   |                   |
| 1    | 2  | Surface | Chromium          | mg/kg | 2.01E+02 | 3.52E-05  | 1.65E-04 | 2.27E-08   |                   |
| 1    | 2  | Surface | Copper            | mg/kg | 1.81E+02 | 3.16E-05  | 1.49E-04 | 2.04E-08   |                   |
| 1    | 2  | Surface | Mercury           | mg/kg | 5.94E+00 | 1.04E-06  | 4.88E-06 | 2.00E-05   |                   |
| 1    | 2  | Surface | Nickel            | mg/kg | 5.75E+01 | 1.00E-05  | 3.78E-05 | 6.48E-09   |                   |
| 1    | 2  | Surface | PCB, Total        | mg/kg | 3.21E+01 | 5.61E-06  | 7.38E-05 | 6.10E-06   |                   |
| 1    | 2  | Surface | Silver            | mg/kg | 3.31E+01 | 5.79E-06  | 2.18E-05 | 3.74E-09   |                   |
| 1    | 2  | Surface | Thallium          | mg/kg | 3.70E-01 | 6.46E-08  | 3.04E-07 | 4.17E-11   |                   |
| 1    | 2  | Surface | Vanadium          | mg/kg | 3.49E+01 | 6.09E-06  | 1.49E-05 | 3.93E-09   |                   |
| 1    | 3  | Surface | Chromium          | mg/kg | 1.45E+01 | 2.53E-06  | 1.19E-05 | 1.63E-09   |                   |
| 1    | 3  | Surface | PCB, Total        | mg/kg | 2.17E-01 | 3.79E-08  | 4.99E-07 | 4.12E-08   |                   |
| 1    | 3  | Surface | Uranium-238       | pCi/g | 1.73E+00 | 5.41E+02  |          | 3.49E-01   | 7.90E+00          |
| 1    | 4  | Surface | Beryllium         | mg/kg | 7.25E-01 | 1.27E-07  | 8.34E-08 | 8.17E-11   |                   |
| 1    | 4  | Surface | Chromium          | mg/kg | 9.30E+01 | 1.63E-05  | 7.64E-05 | 1.05E-08   |                   |
| 1    | 4  | Surface | Nickel            | mg/kg | 4.69E+01 | 8.19E-06  | 3.08E-05 | 5.28E-09   |                   |
| 1    | 4  | Surface | PCB, Total        | mg/kg | 1.30E-01 | 2.27E-08  | 2.99E-07 | 2.47E-08   |                   |
| 1    | 4  | Surface | Cobalt-60         | pCi/g | 2.20E-02 | 6.88E+00  |          | 4.44E-03   | 1.00E-01          |
| 1    | 4  | Surface | Thorium-230       | pCi/g | 5.03E+00 | 1.57E+03  |          | 1.01E+00   | 2.30E+01          |
| 1    | 5  | Surface | Beryllium         | mg/kg | 8.30E+00 | 1.45E-06  | 9.54E-07 | 9.36E-10   |                   |
| 1    | 5  | Surface | Cadmium           | mg/kg | 1.20E+00 | 2.10E-07  | 1.97E-08 | 1.35E-10   |                   |
| 1    | 5  | Surface | Nickel            | mg/kg | 4.07E+01 | 7.11E-06  | 2.67E-05 | 4.59E-09   |                   |
| 1    | 5  | Surface | PCB, Total        | mg/kg | 2.70E-01 | 4.72E-08  | 6.21E-07 | 5.13E-08   |                   |
| 1    | 5  | Surface | Total PAH         | mg/kg | 9.83E-02 | 1.72E-08  | 2.10E-07 | 8.19E-10   |                   |
| 194  | 1  | Surface | Antimony          | mg/kg | 1.50E+00 | 2.62E-07  | 1.23E-06 | 1.69E-10   |                   |
| 194  | 1  | Surface | Chromium          | mg/kg | 3.87E+01 | 6.76E-06  | 3.18E-05 | 4.36E-09   |                   |
| 194  | 1  | Surface | Mercury           | mg/kg | 6.71E+00 | 1.17E-06  | 5.51E-06 | 2.25E-05   |                   |
| 194  | 1  | Surface | Nickel            | mg/kg | 5.84E+01 | 1.02E-05  | 3.84E-05 | 6.59E-09   |                   |
| 194  | 1  | Surface | Silver            | mg/kg | 1.09E+01 | 1.91E-06  | 7.18E-06 | 1.23E-09   |                   |
| 194  | 10 | Surface | Arsenic           | mg/kg | 1.22E+01 | 2.12E-06  | 5.99E-06 | 1.37E-09   |                   |
| 194  | 10 | Surface | Chromium          | mg/kg | 3.63E+01 | 6.34E-06  | 2.98E-05 | 4.09E-09   |                   |
| 194  | 10 | Surface | Nickel            | mg/kg | 7.60E+01 | 1.33E-05  | 4.99E-05 | 8.57E-09   |                   |
| 194  | 10 | Surface | Total PAH         | mg/kg | 2.57E-01 | 4.49E-08  | 5.49E-07 | 2.14E-09   |                   |
| 194  | 10 | Surface | Cesium-137        | pCi/g | 5.81E-01 | 1.82E+02  |          | 1.17E-01   | 2.65E+00          |
| 194  | 10 | Surface | Uranium-238       | pCi/g | 1.49E+00 | 4.66E+02  |          | 3.00E-01   | 6.80E+00          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 11 | Surface | Chromium    | mg/kg | 3.27E+01 | 5.71E-06  | 2.68E-05 | 3.68E-09   |                   |
| 194  | 11 | Surface | Mercury     | mg/kg | 8.09E+00 | 1.41E-06  | 6.64E-06 | 2.72E-05   |                   |
| 194  | 11 | Surface | Nickel      | mg/kg | 1.01E+02 | 1.76E-05  | 6.61E-05 | 1.13E-08   |                   |
| 194  | 11 | Surface | PCB, Total  | mg/kg | 8.40E-02 | 1.47E-08  | 1.93E-07 | 1.60E-08   |                   |
| 194  | 11 | Surface | Silver      | mg/kg | 1.33E+01 | 2.32E-06  | 8.73E-06 | 1.50E-09   |                   |
| 194  | 11 | Surface | Total PAH   | mg/kg | 7.95E-02 | 1.39E-08  | 1.70E-07 | 6.63E-10   |                   |
| 194  | 12 | Surface | Chromium    | mg/kg | 6.34E+01 | 1.11E-05  | 5.20E-05 | 7.14E-09   |                   |
| 194  | 12 | Surface | Nickel      | mg/kg | 7.86E+01 | 1.37E-05  | 5.16E-05 | 8.86E-09   |                   |
| 194  | 12 | Surface | Silver      | mg/kg | 1.20E+01 | 2.09E-06  | 7.87E-06 | 1.35E-09   |                   |
| 194  | 12 | Surface | Total PAH   | mg/kg | 8.91E-01 | 1.56E-07  | 1.90E-06 | 7.43E-09   |                   |
| 194  | 13 | Surface | Chromium    | mg/kg | 4.77E+01 | 8.33E-06  | 3.91E-05 | 5.37E-09   |                   |
| 194  | 13 | Surface | Nickel      | mg/kg | 6.03E+01 | 1.05E-05  | 3.96E-05 | 6.80E-09   |                   |
| 194  | 13 | Surface | Total PAH   | mg/kg | 9.13E-02 | 1.60E-08  | 1.95E-07 | 7.61E-10   |                   |
| 194  | 14 | Surface | Chromium    | mg/kg | 5.21E+01 | 9.11E-06  | 4.28E-05 | 5.88E-09   |                   |
| 194  | 14 | Surface | Mercury     | mg/kg | 8.14E+00 | 1.42E-06  | 6.68E-06 | 2.74E-05   |                   |
| 194  | 15 | Surface | Chromium    | mg/kg | 5.33E+01 | 9.32E-06  | 4.38E-05 | 6.01E-09   |                   |
| 194  | 15 | Surface | Silver      | mg/kg | 1.03E+01 | 1.80E-06  | 6.77E-06 | 1.16E-09   |                   |
| 194  | 16 | Surface | Antimony    | mg/kg | 7.40E-01 | 1.29E-07  | 6.08E-07 | 8.34E-11   |                   |
| 194  | 16 | Surface | Arsenic     | mg/kg | 1.15E+01 | 2.01E-06  | 5.68E-06 | 1.30E-09   |                   |
| 194  | 16 | Surface | Beryllium   | mg/kg | 8.70E-01 | 1.52E-07  | 1.00E-07 | 9.81E-11   |                   |
| 194  | 16 | Surface | Chromium    | mg/kg | 5.32E+01 | 9.30E-06  | 4.37E-05 | 6.00E-09   |                   |
| 194  | 16 | Surface | Nickel      | mg/kg | 7.20E+01 | 1.26E-05  | 4.73E-05 | 8.12E-09   |                   |
| 194  | 16 | Surface | Thallium    | mg/kg | 6.30E-01 | 1.10E-07  | 5.17E-07 | 7.10E-11   |                   |
| 194  | 16 | Surface | Vanadium    | mg/kg | 4.11E+01 | 7.18E-06  | 1.76E-05 | 4.63E-09   |                   |
| 194  | 17 | Surface | Arsenic     | mg/kg | 1.16E+01 | 2.02E-06  | 5.69E-06 | 1.30E-09   |                   |
| 194  | 17 | Surface | Cadmium     | mg/kg | 1.10E+00 | 1.92E-07  | 1.81E-08 | 1.24E-10   |                   |
| 194  | 17 | Surface | Chromium    | mg/kg | 4.65E+01 | 8.12E-06  | 3.82E-05 | 5.24E-09   |                   |
| 194  | 17 | Surface | Total PAH   | mg/kg | 1.59E-01 | 2.77E-08  | 3.39E-07 | 1.32E-09   |                   |
| 194  | 18 | Surface | Arsenic     | mg/kg | 1.06E+01 | 1.85E-06  | 5.21E-06 | 1.19E-09   |                   |
| 194  | 18 | Surface | Beryllium   | mg/kg | 7.40E-01 | 1.29E-07  | 8.51E-08 | 8.34E-11   |                   |
| 194  | 18 | Surface | Chromium    | mg/kg | 6.85E+01 | 1.20E-05  | 5.62E-05 | 7.72E-09   |                   |
| 194  | 18 | Surface | Nickel      | mg/kg | 5.78E+01 | 1.01E-05  | 3.80E-05 | 6.51E-09   |                   |
| 194  | 19 | Surface | Arsenic     | mg/kg | 1.07E+01 | 1.87E-06  | 5.27E-06 | 1.21E-09   |                   |
| 194  | 19 | Surface | Chromium    | mg/kg | 4.84E+01 | 8.45E-06  | 3.97E-05 | 5.45E-09   |                   |
| 194  | 19 | Surface | Nickel      | mg/kg | 5.84E+01 | 1.02E-05  | 3.84E-05 | 6.58E-09   |                   |
| 194  | 2  | Surface | Chromium    | mg/kg | 5.96E+01 | 1.04E-05  | 4.89E-05 | 6.72E-09   |                   |
| 194  | 2  | Surface | Silver      | mg/kg | 1.31E+01 | 2.29E-06  | 8.63E-06 | 1.48E-09   |                   |
| 194  | 2  | Surface | Uranium     | mg/kg | 2.28E+01 | 3.98E-06  | 1.87E-05 | 2.57E-09   |                   |
| 194  | 2  | Surface | Uranium-238 | pCi/g | 1.42E+00 | 4.44E+02  |          | 2.86E-01   | 6.48E+00          |
| 194  | 20 | Surface | Arsenic     | mg/kg | 1.18E+01 | 2.07E-06  | 5.83E-06 | 1.33E-09   |                   |
| 194  | 20 | Surface | Barium      | mg/kg | 3.26E+02 | 5.70E-05  | 2.68E-04 | 3.67E-08   |                   |
| 194  | 20 | Surface | Beryllium   | mg/kg | 1.10E+00 | 1.92E-07  | 1.26E-07 | 1.24E-10   |                   |
| 194  | 20 | Surface | Chromium    | mg/kg | 5.24E+01 | 9.15E-06  | 4.30E-05 | 5.90E-09   |                   |
| 194  | 20 | Surface | Cobalt      | mg/kg | 2.11E+01 | 3.69E-06  | 1.73E-05 | 2.38E-09   |                   |
| 194  | 20 | Surface | Manganese   | mg/kg | 2.29E+03 | 4.01E-04  | 1.51E-03 | 2.59E-07   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 20 | Surface | Mercury    | mg/kg | 7.28E+00 | 1.27E-06  | 5.98E-06 | 2.45E-05   |                   |
| 194  | 20 | Surface | Nickel     | mg/kg | 6.57E+01 | 1.15E-05  | 4.32E-05 | 7.41E-09   |                   |
| 194  | 20 | Surface | Silver     | mg/kg | 1.22E+01 | 2.14E-06  | 8.03E-06 | 1.38E-09   |                   |
| 194  | 20 | Surface | Total PAH  | mg/kg | 3.10E-02 | 5.42E-09  | 6.62E-08 | 2.58E-10   |                   |
| 194  | 20 | Surface | Vanadium   | mg/kg | 3.81E+01 | 6.66E-06  | 1.63E-05 | 4.29E-09   |                   |
| 194  | 21 | Surface | Antimony   | mg/kg | 9.30E-01 | 1.62E-07  | 7.64E-07 | 1.05E-10   |                   |
| 194  | 21 | Surface | Chromium   | mg/kg | 5.51E+01 | 9.63E-06  | 4.52E-05 | 6.21E-09   |                   |
| 194  | 21 | Surface | Mercury    | mg/kg | 6.62E+00 | 1.16E-06  | 5.44E-06 | 2.22E-05   |                   |
| 194  | 21 | Surface | Nickel     | mg/kg | 7.01E+01 | 1.23E-05  | 4.61E-05 | 7.90E-09   |                   |
| 194  | 21 | Surface | Thallium   | mg/kg | 6.40E-01 | 1.12E-07  | 5.26E-07 | 7.21E-11   |                   |
| 194  | 22 | Surface | Chromium   | mg/kg | 4.90E+01 | 8.56E-06  | 4.02E-05 | 5.52E-09   |                   |
| 194  | 22 | Surface | Manganese  | mg/kg | 8.19E+02 | 1.43E-04  | 5.38E-04 | 9.23E-08   |                   |
| 194  | 22 | Surface | PCB, Total | mg/kg | 1.09E+01 | 1.91E-06  | 2.51E-05 | 2.08E-06   |                   |
| 194  | 23 | Surface | Arsenic    | mg/kg | 1.16E+01 | 2.02E-06  | 5.69E-06 | 1.30E-09   |                   |
| 194  | 23 | Surface | Chromium   | mg/kg | 6.60E+01 | 1.15E-05  | 5.42E-05 | 7.44E-09   |                   |
| 194  | 23 | Surface | Iron       | mg/kg | 1.83E+04 | 3.19E-03  | 1.50E-02 | 2.06E-06   |                   |
| 194  | 23 | Surface | Nickel     | mg/kg | 8.77E+01 | 1.53E-05  | 5.76E-05 | 9.89E-09   |                   |
| 194  | 23 | Surface | Silver     | mg/kg | 1.15E+01 | 2.01E-06  | 7.54E-06 | 1.29E-09   |                   |
| 194  | 24 | Surface | Chromium   | mg/kg | 5.02E+01 | 8.77E-06  | 4.12E-05 | 5.66E-09   |                   |
| 194  | 24 | Surface | Nickel     | mg/kg | 7.08E+01 | 1.24E-05  | 4.65E-05 | 7.98E-09   |                   |
| 194  | 24 | Surface | Total PAH  | mg/kg | 2.28E-02 | 3.98E-09  | 4.87E-08 | 1.90E-10   |                   |
| 194  | 25 | Surface | Barium     | mg/kg | 3.00E+02 | 5.24E-05  | 2.46E-04 | 3.38E-08   |                   |
| 194  | 25 | Surface | Chromium   | mg/kg | 6.13E+01 | 1.07E-05  | 5.03E-05 | 6.90E-09   |                   |
| 194  | 25 | Surface | Manganese  | mg/kg | 9.96E+02 | 1.74E-04  | 6.54E-04 | 1.12E-07   |                   |
| 194  | 25 | Surface | Nickel     | mg/kg | 6.33E+01 | 1.11E-05  | 4.16E-05 | 7.14E-09   |                   |
| 194  | 25 | Surface | Total PAH  | mg/kg | 2.06E-02 | 3.60E-09  | 4.40E-08 | 1.72E-10   |                   |
| 194  | 26 | Surface | Beryllium  | mg/kg | 7.00E-01 | 1.22E-07  | 8.05E-08 | 7.89E-11   |                   |
| 194  | 26 | Surface | Chromium   | mg/kg | 4.18E+01 | 7.31E-06  | 3.43E-05 | 4.71E-09   |                   |
| 194  | 26 | Surface | Silver     | mg/kg | 1.03E+01 | 1.79E-06  | 6.75E-06 | 1.16E-09   |                   |
| 194  | 26 | Surface | Thallium   | mg/kg | 3.90E-01 | 6.81E-08  | 3.20E-07 | 4.40E-11   |                   |
| 194  | 27 | Surface | Chromium   | mg/kg | 5.22E+01 | 9.12E-06  | 4.28E-05 | 5.88E-09   |                   |
| 194  | 27 | Surface | Nickel     | mg/kg | 6.55E+01 | 1.14E-05  | 4.30E-05 | 7.38E-09   |                   |
| 194  | 27 | Surface | Silver     | mg/kg | 1.01E+01 | 1.77E-06  | 6.65E-06 | 1.14E-09   |                   |
| 194  | 28 | Surface | Arsenic    | mg/kg | 1.20E+01 | 2.10E-06  | 5.93E-06 | 1.36E-09   |                   |
| 194  | 28 | Surface | Beryllium  | mg/kg | 7.10E-01 | 1.24E-07  | 8.16E-08 | 8.00E-11   |                   |
| 194  | 28 | Surface | Chromium   | mg/kg | 6.07E+01 | 1.06E-05  | 4.98E-05 | 6.84E-09   |                   |
| 194  | 28 | Surface | Manganese  | mg/kg | 1.14E+03 | 1.99E-04  | 7.48E-04 | 1.28E-07   |                   |
| 194  | 28 | Surface | Nickel     | mg/kg | 6.95E+01 | 1.21E-05  | 4.56E-05 | 7.83E-09   |                   |
| 194  | 28 | Surface | Silver     | mg/kg | 1.08E+01 | 1.89E-06  | 7.09E-06 | 1.22E-09   |                   |
| 194  | 28 | Surface | Vanadium   | mg/kg | 4.06E+01 | 7.09E-06  | 1.73E-05 | 4.58E-09   |                   |
| 194  | 29 | Surface | Antimony   | mg/kg | 7.10E-01 | 1.24E-07  | 5.83E-07 | 8.00E-11   |                   |
| 194  | 29 | Surface | Chromium   | mg/kg | 5.06E+01 | 8.83E-06  | 4.15E-05 | 5.70E-09   |                   |
| 194  | 29 | Surface | Nickel     | mg/kg | 6.51E+01 | 1.14E-05  | 4.28E-05 | 7.34E-09   |                   |
| 194  | 29 | Surface | Silver     | mg/kg | 9.77E+00 | 1.71E-06  | 6.42E-06 | 1.10E-09   |                   |
| 194  | 3  | Surface | Antimony   | mg/kg | 6.90E-01 | 1.21E-07  | 5.67E-07 | 7.78E-11   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC                       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|----------------------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 3  | Surface | Arsenic                    | mg/kg | 1.46E+01 | 2.56E-06  | 7.21E-06 | 1.65E-09   |                   |
| 194  | 3  | Surface | Chromium                   | mg/kg | 3.90E+01 | 6.81E-06  | 3.20E-05 | 4.39E-09   |                   |
| 194  | 3  | Surface | Nickel                     | mg/kg | 6.40E+01 | 1.12E-05  | 4.21E-05 | 7.22E-09   |                   |
| 194  | 3  | Surface | Total PAH                  | mg/kg | 3.93E-02 | 6.87E-09  | 8.39E-08 | 3.28E-10   |                   |
| 194  | 3  | Surface | Uranium-238                | pCi/g | 1.28E+00 | 4.01E+02  |          | 2.59E-01   | 5.86E+00          |
| 194  | 30 | Surface | Chromium                   | mg/kg | 5.66E+01 | 9.88E-06  | 4.65E-05 | 6.38E-09   |                   |
| 194  | 30 | Surface | Mercury                    | mg/kg | 8.80E+00 | 1.54E-06  | 7.23E-06 | 2.96E-05   |                   |
| 194  | 30 | Surface | Nickel                     | mg/kg | 6.99E+01 | 1.22E-05  | 4.59E-05 | 7.88E-09   |                   |
| 194  | 30 | Surface | Silver                     | mg/kg | 9.76E+00 | 1.71E-06  | 6.41E-06 | 1.10E-09   |                   |
| 194  | 31 | Surface | Cesium-137                 | pCi/g | 5.70E-01 | 1.78E+02  |          | 1.15E-01   | 2.60E+00          |
| 194  | 31 | Surface | Uranium-238                | pCi/g | 1.72E+00 | 5.38E+02  |          | 3.47E-01   | 7.85E+00          |
| 194  | 4  | Surface | Chromium                   | mg/kg | 4.84E+01 | 8.46E-06  | 3.98E-05 | 5.46E-09   |                   |
| 194  | 4  | Surface | Mercury                    | mg/kg | 8.92E+00 | 1.56E-06  | 7.33E-06 | 3.00E-05   |                   |
| 194  | 4  | Surface | Nickel                     | mg/kg | 6.91E+01 | 1.21E-05  | 4.54E-05 | 7.78E-09   |                   |
| 194  | 4  | Surface | Silver                     | mg/kg | 1.18E+01 | 2.06E-06  | 7.74E-06 | 1.33E-09   |                   |
| 194  | 4  | Surface | Total PAH                  | mg/kg | 7.30E-02 | 1.27E-08  | 1.56E-07 | 6.08E-10   |                   |
| 194  | 4  | Surface | Uranium-238                | pCi/g | 1.73E+00 | 5.41E+02  |          | 3.49E-01   | 7.90E+00          |
| 194  | 5  | Surface | Chromium                   | mg/kg | 4.58E+01 | 8.00E-06  | 3.76E-05 | 5.16E-09   |                   |
| 194  | 5  | Surface | Mercury                    | mg/kg | 8.69E+00 | 1.52E-06  | 7.14E-06 | 2.92E-05   |                   |
| 194  | 5  | Surface | Nickel                     | mg/kg | 7.54E+01 | 1.32E-05  | 4.96E-05 | 8.50E-09   |                   |
| 194  | 5  | Surface | Silver                     | mg/kg | 1.25E+01 | 2.18E-06  | 8.18E-06 | 1.40E-09   |                   |
| 194  | 5  | Surface | Total PAH                  | mg/kg | 2.37E-02 | 4.14E-09  | 5.06E-08 | 1.98E-10   |                   |
| 194  | 5  | Surface | Uranium-238                | pCi/g | 1.38E+00 | 4.31E+02  |          | 2.78E-01   | 6.30E+00          |
| 194  | 6  | Surface | Chromium                   | mg/kg | 3.70E+01 | 6.47E-06  | 3.04E-05 | 4.17E-09   |                   |
| 194  | 6  | Surface | Manganese                  | mg/kg | 1.08E+03 | 1.89E-04  | 7.10E-04 | 1.22E-07   |                   |
| 194  | 6  | Surface | Nickel                     | mg/kg | 8.06E+01 | 1.41E-05  | 5.30E-05 | 9.09E-09   |                   |
| 194  | 6  | Surface | Silver                     | mg/kg | 9.89E+00 | 1.73E-06  | 6.50E-06 | 1.11E-09   |                   |
| 194  | 6  | Surface | Uranium-238                | pCi/g | 1.32E+00 | 4.13E+02  |          | 2.66E-01   | 6.03E+00          |
| 194  | 7  | Surface | Chromium                   | mg/kg | 5.32E+01 | 9.30E-06  | 4.37E-05 | 6.00E-09   |                   |
| 194  | 7  | Surface | Nickel                     | mg/kg | 7.71E+01 | 1.35E-05  | 5.07E-05 | 8.70E-09   |                   |
| 194  | 7  | Surface | Silver                     | mg/kg | 1.25E+01 | 2.18E-06  | 8.21E-06 | 1.41E-09   |                   |
| 194  | 8  | Surface | Bis(2-ethylhexyl)phthalate | mg/kg | 1.50E+01 | 2.62E-06  | 2.46E-05 | 1.69E-09   |                   |
| 194  | 8  | Surface | Chromium                   | mg/kg | 5.36E+01 | 9.36E-06  | 4.40E-05 | 6.04E-09   |                   |
| 194  | 8  | Surface | Manganese                  | mg/kg | 8.00E+02 | 1.40E-04  | 5.26E-04 | 9.02E-08   |                   |
| 194  | 8  | Surface | Total PAH                  | mg/kg | 4.85E-01 | 8.47E-08  | 1.04E-06 | 4.04E-09   |                   |
| 194  | 8  | Surface | Uranium-238                | pCi/g | 1.39E+00 | 4.34E+02  |          | 2.80E-01   | 6.35E+00          |
| 194  | 9  | Surface | Arsenic                    | mg/kg | 1.14E+01 | 2.00E-06  | 5.63E-06 | 1.29E-09   |                   |
| 194  | 9  | Surface | Chromium                   | mg/kg | 5.17E+01 | 9.02E-06  | 4.24E-05 | 5.82E-09   |                   |
| 196  | 1  | Surface | Antimony                   | mg/kg | 5.90E-01 | 1.03E-07  | 4.85E-07 | 6.65E-11   |                   |
| 196  | 1  | Surface | Chromium                   | mg/kg | 1.96E+01 | 3.42E-06  | 1.61E-05 | 2.21E-09   |                   |
| 196  | 1  | Surface | Nickel                     | mg/kg | 5.56E+02 | 9.71E-05  | 3.65E-04 | 6.27E-08   |                   |
| 196  | 1  | Surface | Uranium                    | mg/kg | 2.33E+01 | 4.07E-06  | 1.91E-05 | 2.63E-09   |                   |
| 196  | 1  | Surface | Neptunium-237              | pCi/g | 3.11E-01 | 9.72E+01  |          | 6.27E-02   | 1.42E+00          |
| 196  | 1  | Surface | Uranium-238                | pCi/g | 1.54E+00 | 4.81E+02  |          | 3.10E-01   | 7.03E+00          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 196  | 2  | Surface | Barium      | mg/kg | 2.02E+02 | 3.53E-05  | 1.66E-04 | 2.28E-08   |                   |
| 196  | 2  | Surface | Cadmium     | mg/kg | 2.53E+00 | 4.42E-07  | 4.16E-08 | 2.85E-10   |                   |
| 196  | 2  | Surface | Chromium    | mg/kg | 2.07E+01 | 3.62E-06  | 1.70E-05 | 2.33E-09   |                   |
| 196  | 2  | Surface | Nickel      | mg/kg | 7.36E+01 | 1.29E-05  | 4.84E-05 | 8.30E-09   |                   |
| 196  | 2  | Surface | PCB, Total  | mg/kg | 1.51E+00 | 2.64E-07  | 3.47E-06 | 2.87E-07   |                   |
| 196  | 2  | Surface | Total PAH   | mg/kg | 6.80E-01 | 1.19E-07  | 1.45E-06 | 5.67E-09   |                   |
| 196  | 2  | Surface | Uranium-238 | pCi/g | 2.21E+00 | 6.91E+02  |          | 4.46E-01   | 1.01E+01          |
| 489  | 1  | Surface | Chromium    | mg/kg | 4.16E+01 | 7.27E-06  | 3.42E-05 | 4.69E-09   |                   |
| 489  | 1  | Surface | Nickel      | mg/kg | 7.88E+01 | 1.38E-05  | 5.18E-05 | 8.89E-09   |                   |
| 489  | 1  | Surface | Total PAH   | mg/kg | 8.22E-02 | 1.44E-08  | 1.75E-07 | 6.85E-10   |                   |
| 489  | 1  | Surface | Uranium-238 | pCi/g | 1.47E+00 | 4.59E+02  |          | 2.96E-01   | 6.71E+00          |
| 531  | 1  | Surface | Antimony    | mg/kg | 1.00E+00 | 1.75E-07  | 8.21E-07 | 1.13E-10   |                   |
| 531  | 1  | Surface | Arsenic     | mg/kg | 4.68E+01 | 8.18E-06  | 2.31E-05 | 5.28E-09   |                   |
| 531  | 1  | Surface | Cadmium     | mg/kg | 3.10E+00 | 5.42E-07  | 5.09E-08 | 3.49E-10   |                   |
| 531  | 1  | Surface | Chromium    | mg/kg | 5.05E+01 | 8.81E-06  | 4.14E-05 | 5.69E-09   |                   |
| 531  | 1  | Surface | Iron        | mg/kg | 5.68E+04 | 9.93E-03  | 4.67E-02 | 6.41E-06   |                   |
| 531  | 1  | Surface | Nickel      | mg/kg | 1.62E+02 | 2.83E-05  | 1.07E-04 | 1.83E-08   |                   |
| 531  | 1  | Surface | Total PAH   | mg/kg | 5.34E-02 | 9.33E-09  | 1.14E-07 | 4.45E-10   |                   |
| 531  | 1  | Surface | Uranium     | mg/kg | 2.41E+01 | 4.21E-06  | 1.98E-05 | 2.71E-09   |                   |
| 531  | 1  | Surface | Zinc        | mg/kg | 2.45E+03 | 4.28E-04  | 2.01E-03 | 2.76E-07   |                   |
| 531  | 1  | Surface | Uranium-235 | pCi/g | 1.38E-01 | 4.31E+01  |          | 2.78E-02   | 6.30E-01          |
| 531  | 1  | Surface | Uranium-238 | pCi/g | 3.48E+00 | 1.09E+03  |          | 7.02E-01   | 1.59E+01          |
| 99   | 1  | Surface | Chromium    | mg/kg | 5.51E+01 | 9.63E-06  | 4.52E-05 | 6.21E-09   |                   |
| 99   | 1  | Surface | Mercury     | mg/kg | 9.53E+00 | 1.67E-06  | 7.83E-06 | 3.20E-05   |                   |
| 99   | 1  | Surface | Nickel      | mg/kg | 7.02E+01 | 1.23E-05  | 4.61E-05 | 7.91E-09   |                   |
| 99   | 1  | Surface | Silver      | mg/kg | 1.03E+01 | 1.80E-06  | 6.77E-06 | 1.16E-09   |                   |
| 99   | 1  | Surface | Cobalt-60   | pCi/g | 1.19E-02 | 3.72E+00  |          | 2.40E-03   | 5.43E-02          |
| 99   | 1  | Surface | Uranium-238 | pCi/g | 9.45E-01 | 2.95E+02  |          | 1.91E-01   | 4.32E+00          |
| 200  | 1  | Surface | Antimony    | mg/kg | 5.60E-01 | 9.78E-08  | 4.60E-07 | 6.31E-11   |                   |
| 200  | 1  | Surface | Chromium    | mg/kg | 5.75E+01 | 1.01E-05  | 4.72E-05 | 6.49E-09   |                   |
| 200  | 1  | Surface | Mercury     | mg/kg | 6.71E+00 | 1.17E-06  | 5.51E-06 | 2.25E-05   |                   |
| 200  | 1  | Surface | Nickel      | mg/kg | 1.28E+02 | 2.24E-05  | 8.41E-05 | 1.44E-08   |                   |
| 200  | 1  | Surface | PCB, Total  | mg/kg | 2.60E+00 | 4.54E-07  | 5.98E-06 | 4.94E-07   |                   |
| 200  | 1  | Surface | Total PAH   | mg/kg | 2.84E-02 | 4.96E-09  | 6.06E-08 | 2.37E-10   |                   |
| 200  | 1  | Surface | Uranium     | mg/kg | 2.73E+01 | 4.77E-06  | 2.24E-05 | 3.08E-09   |                   |
| 200  | 1  | Surface | Cesium-137  | pCi/g | 5.74E-01 | 1.79E+02  |          | 1.16E-01   | 2.62E+00          |
| 200  | 1  | Surface | Uranium-235 | pCi/g | 1.43E-01 | 4.47E+01  |          | 2.88E-02   | 6.53E-01          |
| 200  | 1  | Surface | Uranium-238 | pCi/g | 3.58E+00 | 1.12E+03  |          | 7.21E-01   | 1.63E+01          |
| 212  | 1  | Surface | Arsenic     | mg/kg | 1.44E+01 | 2.52E-06  | 7.11E-06 | 1.63E-09   |                   |
| 212  | 1  | Surface | Beryllium   | mg/kg | 8.10E-01 | 1.42E-07  | 9.31E-08 | 9.13E-11   |                   |
| 212  | 1  | Surface | Chromium    | mg/kg | 3.58E+01 | 6.26E-06  | 2.94E-05 | 4.04E-09   |                   |
| 212  | 1  | Surface | Iron        | mg/kg | 4.14E+04 | 7.23E-03  | 3.40E-02 | 4.67E-06   |                   |
| 212  | 1  | Surface | Nickel      | mg/kg | 8.69E+01 | 1.52E-05  | 5.71E-05 | 9.80E-09   |                   |
| 212  | 1  | Surface | PCB, Total  | mg/kg | 1.80E-01 | 3.15E-08  | 4.14E-07 | 3.42E-08   |                   |
| 212  | 1  | Surface | Uranium     | mg/kg | 2.30E+01 | 4.02E-06  | 1.89E-05 | 2.59E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 212  | 1  | Surface | Cesium-137        | pCi/g | 6.01E-01 | 1.88E+02  |          | 1.21E-01   | 2.74E+00          |
| 212  | 1  | Surface | Cobalt-60         | pCi/g | 8.76E-03 | 2.74E+00  |          | 1.77E-03   | 4.00E-02          |
| 212  | 1  | Surface | Neptunium-237     | pCi/g | 4.00E+00 | 1.25E+03  |          | 8.06E-01   | 1.83E+01          |
| 212  | 1  | Surface | Plutonium-239/240 | pCi/g | 6.71E+00 | 2.10E+03  |          | 1.35E+00   | 3.06E+01          |
| 212  | 1  | Surface | Thorium-230       | pCi/g | 2.60E+02 | 8.13E+04  |          | 5.24E+01   | 1.19E+03          |
| 212  | 1  | Surface | Uranium-235       | pCi/g | 2.09E-01 | 6.53E+01  |          | 4.21E-02   | 9.54E-01          |
| 212  | 1  | Surface | Uranium-238       | pCi/g | 3.17E+00 | 9.91E+02  |          | 6.39E-01   | 1.45E+01          |
| 213  | 1  | Surface | Antimony          | mg/kg | 8.50E-01 | 1.49E-07  | 6.98E-07 | 9.58E-11   |                   |
| 213  | 1  | Surface | Chromium          | mg/kg | 4.78E+01 | 8.35E-06  | 3.93E-05 | 5.39E-09   |                   |
| 213  | 1  | Surface | Nickel            | mg/kg | 6.67E+01 | 1.17E-05  | 4.38E-05 | 7.52E-09   |                   |
| 213  | 1  | Surface | PCB, Total        | mg/kg | 7.30E-02 | 1.28E-08  | 1.68E-07 | 1.39E-08   |                   |
| 213  | 1  | Surface | Silver            | mg/kg | 1.32E+01 | 2.30E-06  | 8.65E-06 | 1.48E-09   |                   |
| 213  | 1  | Surface | Total PAH         | mg/kg | 1.72E-01 | 3.00E-08  | 3.67E-07 | 1.43E-09   |                   |
| 213  | 1  | Surface | Uranium-238       | pCi/g | 2.33E+00 | 7.28E+02  |          | 4.70E-01   | 1.06E+01          |
| 213  | 2  | Surface | Chromium          | mg/kg | 4.48E+01 | 7.83E-06  | 3.68E-05 | 5.05E-09   |                   |
| 213  | 2  | Surface | Nickel            | mg/kg | 9.10E+01 | 1.59E-05  | 5.98E-05 | 1.03E-08   |                   |
| 213  | 2  | Surface | Silver            | mg/kg | 1.13E+01 | 1.97E-06  | 7.40E-06 | 1.27E-09   |                   |
| 214  | 1  | Surface | Antimony          | mg/kg | 5.70E-01 | 9.96E-08  | 4.68E-07 | 6.43E-11   |                   |
| 215  | 1  | Surface | Antimony          | mg/kg | 6.80E-01 | 1.19E-07  | 5.58E-07 | 7.67E-11   |                   |
| 215  | 1  | Surface | Chromium          | mg/kg | 5.73E+01 | 1.00E-05  | 4.71E-05 | 6.46E-09   |                   |
| 215  | 1  | Surface | Iron              | mg/kg | 3.87E+04 | 6.76E-03  | 3.18E-02 | 4.36E-06   |                   |
| 215  | 1  | Surface | Nickel            | mg/kg | 7.32E+01 | 1.28E-05  | 4.81E-05 | 8.25E-09   |                   |
| 215  | 1  | Surface | Total PAH         | mg/kg | 8.09E-02 | 1.41E-08  | 1.73E-07 | 6.74E-10   |                   |
| 216  | 1  | Surface | Chromium          | mg/kg | 2.38E+01 | 4.16E-06  | 1.95E-05 | 2.68E-09   |                   |
| 216  | 1  | Surface | Total PAH         | mg/kg | 1.49E-01 | 2.61E-08  | 3.19E-07 | 1.24E-09   |                   |
| 216  | 1  | Surface | Uranium-238       | pCi/g | 1.33E+00 | 4.16E+02  |          | 2.68E-01   | 6.07E+00          |
| 217  | 1  | Surface | Chromium          | mg/kg | 8.58E+01 | 1.50E-05  | 7.04E-05 | 9.67E-09   |                   |
| 217  | 1  | Surface | Cobalt            | mg/kg | 1.96E+01 | 3.42E-06  | 1.61E-05 | 2.21E-09   |                   |
| 217  | 1  | Surface | Manganese         | mg/kg | 7.70E+02 | 1.34E-04  | 5.06E-04 | 8.68E-08   |                   |
| 217  | 1  | Surface | Nickel            | mg/kg | 8.54E+01 | 1.49E-05  | 5.61E-05 | 9.63E-09   |                   |
| 217  | 1  | Surface | Silver            | mg/kg | 1.35E+01 | 2.35E-06  | 8.84E-06 | 1.52E-09   |                   |
| 217  | 1  | Surface | Uranium-238       | pCi/g | 1.15E+00 | 3.61E+02  |          | 2.33E-01   | 5.27E+00          |
| 217  | 2  | Surface | Antimony          | mg/kg | 1.70E+00 | 2.97E-07  | 1.40E-06 | 1.92E-10   |                   |
| 217  | 2  | Surface | Arsenic           | mg/kg | 1.12E+01 | 1.95E-06  | 5.50E-06 | 1.26E-09   |                   |
| 217  | 2  | Surface | Chromium          | mg/kg | 1.02E+02 | 1.78E-05  | 8.34E-05 | 1.15E-08   |                   |
| 217  | 2  | Surface | Cobalt            | mg/kg | 1.74E+01 | 3.04E-06  | 1.43E-05 | 1.96E-09   |                   |
| 217  | 2  | Surface | Iron              | mg/kg | 3.09E+04 | 5.40E-03  | 2.54E-02 | 3.49E-06   |                   |
| 217  | 2  | Surface | Manganese         | mg/kg | 8.44E+02 | 1.47E-04  | 5.54E-04 | 9.51E-08   |                   |
| 217  | 2  | Surface | Mercury           | mg/kg | 8.59E+00 | 1.50E-06  | 7.05E-06 | 2.89E-05   |                   |
| 217  | 2  | Surface | Nickel            | mg/kg | 9.74E+01 | 1.70E-05  | 6.40E-05 | 1.10E-08   |                   |
| 217  | 2  | Surface | Silver            | mg/kg | 1.61E+01 | 2.81E-06  | 1.06E-05 | 1.81E-09   |                   |
| 217  | 2  | Surface | Total PAH         | mg/kg | 5.05E-01 | 8.82E-08  | 1.08E-06 | 4.21E-09   |                   |
| 221  | 1  | Surface | Barium            | mg/kg | 2.21E+02 | 3.86E-05  | 1.81E-04 | 2.49E-08   |                   |
| 221  | 1  | Surface | Chromium          | mg/kg | 7.01E+01 | 1.23E-05  | 5.76E-05 | 7.90E-09   |                   |
| 221  | 1  | Surface | Iron              | mg/kg | 1.90E+04 | 3.32E-03  | 1.56E-02 | 2.14E-06   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 221  | 1  | Surface | Nickel        | mg/kg | 7.93E+01 | 1.38E-05  | 5.21E-05 | 8.93E-09   |                   |
| 221  | 1  | Surface | PCB, Total    | mg/kg | 5.00E-01 | 8.74E-08  | 1.15E-06 | 9.50E-08   |                   |
| 221  | 1  | Surface | Total PAH     | mg/kg | 1.02E+00 | 1.79E-07  | 2.18E-06 | 8.52E-09   |                   |
| 221  | 1  | Surface | Uranium       | mg/kg | 1.64E+01 | 2.86E-06  | 1.34E-05 | 1.84E-09   |                   |
| 221  | 1  | Surface | Uranium-238   | pCi/g | 1.93E+00 | 6.03E+02  |          | 3.89E-01   | 8.81E+00          |
| 222  | 1  | Surface | Chromium      | mg/kg | 4.73E+01 | 8.27E-06  | 3.89E-05 | 5.33E-09   |                   |
| 222  | 1  | Surface | Nickel        | mg/kg | 9.19E+01 | 1.61E-05  | 6.04E-05 | 1.04E-08   |                   |
| 222  | 1  | Surface | PCB, Total    | mg/kg | 1.40E+00 | 2.45E-07  | 3.22E-06 | 2.66E-07   |                   |
| 222  | 1  | Surface | Total PAH     | mg/kg | 1.77E-01 | 3.10E-08  | 3.78E-07 | 1.48E-09   |                   |
| 222  | 1  | Surface | Uranium       | mg/kg | 2.80E+01 | 4.89E-06  | 2.30E-05 | 3.15E-09   |                   |
| 222  | 1  | Surface | Uranium-234   | pCi/g | 1.04E+01 | 3.25E+03  |          | 2.10E+00   | 4.75E+01          |
| 222  | 1  | Surface | Uranium-235   | pCi/g | 7.10E-01 | 2.22E+02  |          | 1.43E-01   | 3.24E+00          |
| 222  | 1  | Surface | Uranium-238   | pCi/g | 1.96E+01 | 6.13E+03  |          | 3.95E+00   | 8.95E+01          |
| 227  | 1  | Surface | Beryllium     | mg/kg | 5.52E-01 | 9.64E-08  | 6.35E-08 | 6.22E-11   |                   |
| 227  | 1  | Surface | Chromium      | mg/kg | 4.71E+01 | 8.24E-06  | 3.87E-05 | 5.31E-09   |                   |
| 227  | 1  | Surface | Nickel        | mg/kg | 2.03E+02 | 3.55E-05  | 1.33E-04 | 2.29E-08   |                   |
| 227  | 1  | Surface | PCB, Total    | mg/kg | 4.14E+00 | 7.24E-07  | 9.53E-06 | 7.87E-07   |                   |
| 227  | 1  | Surface | Total PAH     | mg/kg | 3.38E-01 | 5.90E-08  | 7.21E-07 | 2.82E-09   |                   |
| 227  | 1  | Surface | Uranium       | mg/kg | 1.02E+02 | 1.78E-05  | 8.34E-05 | 1.15E-08   |                   |
| 227  | 1  | Surface | Cesium-137    | pCi/g | 1.90E-01 | 5.94E+01  |          | 3.83E-02   | 8.68E-01          |
| 227  | 1  | Surface | Cobalt-60     | pCi/g | 1.53E-02 | 4.78E+00  |          | 3.08E-03   | 6.99E-02          |
| 227  | 1  | Surface | Neptunium-237 | pCi/g | 9.05E-01 | 2.83E+02  |          | 1.82E-01   | 4.13E+00          |
| 227  | 1  | Surface | Technetium-99 | pCi/g | 4.77E+01 | 1.49E+04  |          | 9.62E+00   | 2.18E+02          |
| 227  | 1  | Surface | Uranium-234   | pCi/g | 1.54E+01 | 4.83E+03  |          | 3.11E+00   | 7.05E+01          |
| 227  | 1  | Surface | Uranium-235   | pCi/g | 1.49E+00 | 4.66E+02  |          | 3.00E-01   | 6.80E+00          |
| 227  | 1  | Surface | Uranium-238   | pCi/g | 4.63E+01 | 1.45E+04  |          | 9.33E+00   | 2.11E+02          |
| 227  | 2  | Surface | Beryllium     | mg/kg | 5.32E-01 | 9.30E-08  | 6.12E-08 | 6.00E-11   |                   |
| 227  | 2  | Surface | Chromium      | mg/kg | 5.63E+01 | 9.84E-06  | 4.62E-05 | 6.35E-09   |                   |
| 227  | 2  | Surface | Cobalt        | mg/kg | 8.99E+00 | 1.57E-06  | 7.38E-06 | 1.01E-09   |                   |
| 227  | 2  | Surface | Mercury       | mg/kg | 8.41E+00 | 1.47E-06  | 6.91E-06 | 2.83E-05   |                   |
| 227  | 2  | Surface | Nickel        | mg/kg | 1.25E+02 | 2.18E-05  | 8.21E-05 | 1.41E-08   |                   |
| 227  | 2  | Surface | PCB, Total    | mg/kg | 5.82E+00 | 1.02E-06  | 1.34E-05 | 1.11E-06   |                   |
| 227  | 2  | Surface | Total PAH     | mg/kg | 1.16E-01 | 2.02E-08  | 2.47E-07 | 9.64E-10   |                   |
| 227  | 2  | Surface | Uranium       | mg/kg | 1.51E+01 | 2.63E-06  | 1.24E-05 | 1.70E-09   |                   |
| 227  | 2  | Surface | Cobalt-60     | pCi/g | 1.37E-02 | 4.28E+00  |          | 2.76E-03   | 6.26E-02          |
| 227  | 2  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 4.92E+02  |          | 3.17E-01   | 7.18E+00          |
| 228  | 1  | Surface | Antimony      | mg/kg | 6.30E-01 | 1.10E-07  | 5.17E-07 | 7.10E-11   |                   |
| 228  | 1  | Surface | Cadmium       | mg/kg | 3.90E+00 | 6.81E-07  | 6.41E-08 | 4.40E-10   |                   |
| 228  | 1  | Surface | Chromium      | mg/kg | 1.89E+02 | 3.30E-05  | 1.55E-04 | 2.13E-08   |                   |
| 228  | 1  | Surface | Mercury       | mg/kg | 9.37E+00 | 1.64E-06  | 7.69E-06 | 3.15E-05   |                   |
| 228  | 1  | Surface | Nickel        | mg/kg | 7.92E+01 | 1.38E-05  | 5.20E-05 | 8.92E-09   |                   |
| 228  | 1  | Surface | Silver        | mg/kg | 1.16E+01 | 2.03E-06  | 7.64E-06 | 1.31E-09   |                   |
| 228  | 1  | Surface | Total PAH     | mg/kg | 6.69E-02 | 1.17E-08  | 1.43E-07 | 5.57E-10   |                   |
| 228  | 1  | Surface | Uranium       | mg/kg | 1.51E+01 | 2.64E-06  | 1.24E-05 | 1.71E-09   |                   |
| 228  | 1  | Surface | Neptunium-237 | pCi/g | 8.00E-01 | 2.50E+02  |          | 1.61E-01   | 3.65E+00          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 228  | 1  | Surface | Uranium-235       | pCi/g | 1.78E-01 | 5.56E+01  |          | 3.59E-02   | 8.13E-01          |
| 228  | 1  | Surface | Uranium-238       | pCi/g | 3.77E+00 | 1.18E+03  |          | 7.60E-01   | 1.72E+01          |
| 165  | 1  | Surface | Antimony          | mg/kg | 2.20E+00 | 3.84E-07  | 1.81E-06 | 2.48E-10   |                   |
| 165  | 1  | Surface | Arsenic           | mg/kg | 6.35E+01 | 1.11E-05  | 3.13E-05 | 7.16E-09   |                   |
| 165  | 1  | Surface | Barium            | mg/kg | 5.84E+02 | 1.02E-04  | 4.80E-04 | 6.59E-08   |                   |
| 165  | 1  | Surface | Beryllium         | mg/kg | 6.82E-01 | 1.19E-07  | 7.84E-08 | 7.69E-11   |                   |
| 165  | 1  | Surface | Chromium          | mg/kg | 3.74E+01 | 6.53E-06  | 3.07E-05 | 4.21E-09   |                   |
| 165  | 1  | Surface | Mercury           | mg/kg | 3.78E-01 | 6.60E-08  | 3.10E-07 | 1.27E-06   |                   |
| 165  | 1  | Surface | Naphthalene       | mg/kg | 1.61E+00 | 2.81E-07  | 6.61E-06 | 6.05E-06   |                   |
| 165  | 1  | Surface | Nickel            | mg/kg | 3.47E+01 | 6.06E-06  | 2.28E-05 | 3.91E-09   |                   |
| 165  | 1  | Surface | PCB, Total        | mg/kg | 8.27E+00 | 1.44E-06  | 1.90E-05 | 1.57E-06   |                   |
| 165  | 1  | Surface | Silver            | mg/kg | 3.09E+01 | 5.40E-06  | 2.03E-05 | 3.49E-09   |                   |
| 165  | 1  | Surface | Total PAH         | mg/kg | 1.87E+00 | 3.26E-07  | 3.99E-06 | 1.56E-08   |                   |
| 165  | 1  | Surface | Uranium           | mg/kg | 1.08E+02 | 1.88E-05  | 8.83E-05 | 1.21E-08   |                   |
| 165  | 1  | Surface | Cesium-137        | pCi/g | 3.47E+00 | 1.08E+03  |          | 7.00E-01   | 1.58E+01          |
| 165  | 1  | Surface | Neptunium-237     | pCi/g | 4.26E-01 | 1.33E+02  |          | 8.59E-02   | 1.95E+00          |
| 165  | 1  | Surface | Plutonium-239/240 | pCi/g | 2.81E+00 | 8.77E+02  |          | 5.66E-01   | 1.28E+01          |
| 165  | 1  | Surface | Thorium-230       | pCi/g | 6.02E+00 | 1.88E+03  |          | 1.21E+00   | 2.75E+01          |
| 165  | 1  | Surface | Uranium-234       | pCi/g | 5.76E+01 | 1.80E+04  |          | 1.16E+01   | 2.63E+02          |
| 165  | 1  | Surface | Uranium-235       | pCi/g | 2.05E+00 | 6.39E+02  |          | 4.12E-01   | 9.34E+00          |
| 165  | 1  | Surface | Uranium-238       | pCi/g | 6.41E+01 | 2.00E+04  |          | 1.29E+01   | 2.93E+02          |
| 170  | 1  | Surface | Neptunium-237     | pCi/g | 1.15E-01 | 3.59E+01  |          | 2.32E-02   | 5.25E-01          |
| 170  | 1  | Surface | Uranium-238       | pCi/g | 1.53E+00 | 4.78E+02  |          | 3.08E-01   | 6.99E+00          |
| 76   | 1  | Surface | Barium            | mg/kg | 2.69E+02 | 4.70E-05  | 2.21E-04 | 3.03E-08   |                   |
| 76   | 1  | Surface | PCB, Total        | mg/kg | 2.60E-01 | 4.54E-08  | 5.98E-07 | 4.94E-08   |                   |
| 76   | 1  | Surface | Total PAH         | mg/kg | 1.76E+00 | 3.07E-07  | 3.75E-06 | 1.47E-08   |                   |
| 76   | 1  | Surface | Uranium-238       | pCi/g | 1.45E+00 | 4.53E+02  |          | 2.92E-01   | 6.62E+00          |
| 158  | 1  | Surface | Antimony          | mg/kg | 5.23E-01 | 9.14E-08  | 4.29E-07 | 5.90E-11   |                   |
| 158  | 1  | Surface | Arsenic           | mg/kg | 1.01E+01 | 1.77E-06  | 4.99E-06 | 1.14E-09   |                   |
| 158  | 1  | Surface | Barium            | mg/kg | 2.19E+02 | 3.82E-05  | 1.80E-04 | 2.47E-08   |                   |
| 158  | 1  | Surface | Chromium          | mg/kg | 6.07E+01 | 1.06E-05  | 4.99E-05 | 6.85E-09   |                   |
| 158  | 1  | Surface | Cobalt            | mg/kg | 1.62E+01 | 2.83E-06  | 1.33E-05 | 1.83E-09   |                   |
| 158  | 1  | Surface | Manganese         | mg/kg | 9.91E+02 | 1.73E-04  | 6.51E-04 | 1.12E-07   |                   |
| 158  | 1  | Surface | Mercury           | mg/kg | 1.05E+01 | 1.83E-06  | 8.59E-06 | 3.51E-05   |                   |
| 158  | 1  | Surface | Nickel            | mg/kg | 7.28E+01 | 1.27E-05  | 4.78E-05 | 8.21E-09   |                   |
| 158  | 1  | Surface | Thallium          | mg/kg | 3.12E-01 | 5.45E-08  | 2.56E-07 | 3.52E-11   |                   |
| 158  | 1  | Surface | Total PAH         | mg/kg | 3.69E-01 | 6.45E-08  | 7.88E-07 | 3.08E-09   |                   |
| 158  | 1  | Surface | Uranium           | mg/kg | 2.03E+01 | 3.55E-06  | 1.67E-05 | 2.29E-09   |                   |
| 158  | 1  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 5.09E+01  |          | 3.29E-02   | 7.44E-01          |
| 158  | 1  | Surface | Uranium-238       | pCi/g | 3.79E+00 | 1.18E+03  |          | 7.64E-01   | 1.73E+01          |
| 169  | 1  | Surface | Aluminum          | mg/kg | 1.42E+04 | 2.48E-03  | 1.17E-02 | 1.60E-06   |                   |
| 169  | 1  | Surface | Antimony          | mg/kg | 1.30E+00 | 2.27E-07  | 1.07E-06 | 1.47E-10   |                   |
| 169  | 1  | Surface | Arsenic           | mg/kg | 2.03E+01 | 3.55E-06  | 1.00E-05 | 2.29E-09   |                   |
| 169  | 1  | Surface | Beryllium         | mg/kg | 8.00E-01 | 1.40E-07  | 9.20E-08 | 9.02E-11   |                   |
| 169  | 1  | Surface | Chromium          | mg/kg | 2.15E+02 | 3.76E-05  | 1.77E-04 | 2.42E-08   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 169  | 1  | Surface | Copper      | mg/kg | 3.74E+02 | 6.54E-05  | 3.07E-04 | 4.22E-08   |                   |
| 169  | 1  | Surface | Iron        | mg/kg | 4.16E+04 | 7.26E-03  | 3.41E-02 | 4.69E-06   |                   |
| 169  | 1  | Surface | Mercury     | mg/kg | 7.87E+00 | 1.38E-06  | 6.46E-06 | 2.64E-05   |                   |
| 169  | 1  | Surface | Nickel      | mg/kg | 5.49E+02 | 9.59E-05  | 3.60E-04 | 6.18E-08   |                   |
| 169  | 1  | Surface | PCB, Total  | mg/kg | 1.00E+01 | 1.75E-06  | 2.30E-05 | 1.90E-06   |                   |
| 169  | 1  | Surface | Thallium    | mg/kg | 4.60E-01 | 8.04E-08  | 3.78E-07 | 5.19E-11   |                   |
| 169  | 1  | Surface | Total PAH   | mg/kg | 4.59E+00 | 8.01E-07  | 9.79E-06 | 3.82E-08   |                   |
| 169  | 1  | Surface | Uranium     | mg/kg | 5.03E+01 | 8.79E-06  | 4.13E-05 | 5.67E-09   |                   |
| 169  | 1  | Surface | Uranium-234 | pCi/g | 6.55E+00 | 2.05E+03  |          | 1.32E+00   | 2.99E+01          |
| 169  | 1  | Surface | Uranium-235 | pCi/g | 4.60E-01 | 1.44E+02  |          | 9.27E-02   | 2.10E+00          |
| 169  | 1  | Surface | Uranium-238 | pCi/g | 8.12E+00 | 2.54E+03  |          | 1.64E+00   | 3.71E+01          |
| 138  | 1  | Surface | Antimony    | mg/kg | 5.39E+00 | 9.42E-07  | 4.43E-06 | 6.08E-10   |                   |
| 138  | 1  | Surface | Arsenic     | mg/kg | 1.06E+01 | 1.86E-06  | 5.23E-06 | 1.20E-09   |                   |
| 138  | 1  | Surface | Cadmium     | mg/kg | 5.42E+00 | 9.47E-07  | 8.90E-08 | 6.11E-10   |                   |
| 138  | 1  | Surface | Chromium    | mg/kg | 5.39E+01 | 9.41E-06  | 4.42E-05 | 6.07E-09   |                   |
| 138  | 1  | Surface | Mercury     | mg/kg | 1.30E+01 | 2.27E-06  | 1.07E-05 | 4.36E-05   |                   |
| 138  | 1  | Surface | Nickel      | mg/kg | 7.04E+01 | 1.23E-05  | 4.62E-05 | 7.93E-09   |                   |
| 138  | 1  | Surface | PCB, Total  | mg/kg | 5.00E-01 | 8.74E-08  | 1.15E-06 | 9.50E-08   |                   |
| 138  | 1  | Surface | Silver      | mg/kg | 1.01E+01 | 1.76E-06  | 6.63E-06 | 1.14E-09   |                   |
| 138  | 1  | Surface | Total PAH   | mg/kg | 9.74E-02 | 1.70E-08  | 2.08E-07 | 8.12E-10   |                   |
| 138  | 2  | Surface | Nickel      | mg/kg | 7.99E+01 | 1.40E-05  | 5.25E-05 | 9.00E-09   |                   |
| 138  | 2  | Surface | PCB, Total  | mg/kg | 9.20E-02 | 1.61E-08  | 2.12E-07 | 1.75E-08   |                   |
| 138  | 2  | Surface | Silver      | mg/kg | 1.04E+01 | 1.82E-06  | 6.86E-06 | 1.18E-09   |                   |
| 138  | 2  | Surface | Total PAH   | mg/kg | 3.84E-02 | 6.71E-09  | 8.20E-08 | 3.20E-10   |                   |
| 180  | 1  | Surface | Antimony    | mg/kg | 5.80E-01 | 1.01E-07  | 4.76E-07 | 6.54E-11   |                   |
| 180  | 1  | Surface | Arsenic     | mg/kg | 7.48E+01 | 1.31E-05  | 3.69E-05 | 8.43E-09   |                   |
| 180  | 1  | Surface | Chromium    | mg/kg | 5.54E+01 | 9.69E-06  | 4.55E-05 | 6.25E-09   |                   |
| 180  | 1  | Surface | Mercury     | mg/kg | 8.28E+00 | 1.45E-06  | 6.80E-06 | 2.78E-05   |                   |
| 180  | 1  | Surface | Nickel      | mg/kg | 8.77E+01 | 1.53E-05  | 5.76E-05 | 9.88E-09   |                   |
| 180  | 2  | Surface | Antimony    | mg/kg | 4.58E-01 | 8.00E-08  | 3.76E-07 | 5.16E-11   |                   |
| 180  | 2  | Surface | Arsenic     | mg/kg | 1.27E+01 | 2.21E-06  | 6.23E-06 | 1.43E-09   |                   |
| 180  | 2  | Surface | Chromium    | mg/kg | 4.46E+01 | 7.80E-06  | 3.67E-05 | 5.03E-09   |                   |
| 180  | 2  | Surface | Nickel      | mg/kg | 8.42E+01 | 1.47E-05  | 5.53E-05 | 9.49E-09   |                   |
| 180  | 2  | Surface | Total PAH   | mg/kg | 9.19E-02 | 1.60E-08  | 1.96E-07 | 7.66E-10   |                   |
| 180  | 3  | Surface | Arsenic     | mg/kg | 1.34E+01 | 2.33E-06  | 6.58E-06 | 1.50E-09   |                   |
| 180  | 3  | Surface | Chromium    | mg/kg | 4.69E+01 | 8.20E-06  | 3.85E-05 | 5.29E-09   |                   |
| 180  | 3  | Surface | Nickel      | mg/kg | 6.77E+01 | 1.18E-05  | 4.45E-05 | 7.63E-09   |                   |
| 180  | 3  | Surface | Silver      | mg/kg | 1.14E+01 | 1.99E-06  | 7.49E-06 | 1.29E-09   |                   |
| 180  | 4  | Surface | Arsenic     | mg/kg | 1.15E+01 | 2.01E-06  | 5.68E-06 | 1.30E-09   |                   |
| 180  | 4  | Surface | Barium      | mg/kg | 2.13E+02 | 3.72E-05  | 1.75E-04 | 2.40E-08   |                   |
| 180  | 4  | Surface | Beryllium   | mg/kg | 1.60E+00 | 2.80E-07  | 1.84E-07 | 1.80E-10   |                   |
| 180  | 4  | Surface | Chromium    | mg/kg | 6.00E+01 | 1.05E-05  | 4.93E-05 | 6.76E-09   |                   |
| 180  | 4  | Surface | Iron        | mg/kg | 1.54E+04 | 2.69E-03  | 1.26E-02 | 1.73E-06   |                   |
| 180  | 4  | Surface | Manganese   | mg/kg | 7.09E+02 | 1.24E-04  | 4.66E-04 | 7.99E-08   |                   |
| 180  | 4  | Surface | Nickel      | mg/kg | 6.46E+01 | 1.13E-05  | 4.24E-05 | 7.28E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 180  | 4  | Surface | Silver      | mg/kg | 9.68E+00 | 1.69E-06  | 6.36E-06 | 1.09E-09   |                   |
| 180  | 4  | Surface | Total PAH   | mg/kg | 2.15E-02 | 3.76E-09  | 4.59E-08 | 1.79E-10   |                   |
| 180  | 4  | Surface | Vanadium    | mg/kg | 4.85E+01 | 8.47E-06  | 2.07E-05 | 5.47E-09   |                   |
| 181  | 1  | Surface | Chromium    | mg/kg | 2.29E+01 | 3.99E-06  | 1.88E-05 | 2.58E-09   |                   |
| 181  | 1  | Surface | Thallium    | mg/kg | 3.50E+00 | 6.12E-07  | 2.87E-06 | 3.95E-10   |                   |
| 181  | 1  | Surface | Total PAH   | mg/kg | 3.43E-02 | 5.99E-09  | 7.32E-08 | 2.86E-10   |                   |
| 19   | 1  | Surface | Beryllium   | mg/kg | 1.10E+00 | 1.92E-07  | 1.26E-07 | 1.24E-10   |                   |
| 19   | 1  | Surface | Cadmium     | mg/kg | 1.20E+00 | 2.10E-07  | 1.97E-08 | 1.35E-10   |                   |
| 19   | 1  | Surface | Thallium    | mg/kg | 9.80E-01 | 1.71E-07  | 8.05E-07 | 1.10E-10   |                   |
| 19   | 1  | Surface | Total PAH   | mg/kg | 5.23E+00 | 9.13E-07  | 1.12E-05 | 4.36E-08   |                   |
| 195  | 1  | Surface | Chromium    | mg/kg | 6.33E+01 | 1.11E-05  | 5.20E-05 | 7.13E-09   |                   |
| 195  | 1  | Surface | Nickel      | mg/kg | 7.02E+01 | 1.23E-05  | 4.61E-05 | 7.91E-09   |                   |
| 195  | 1  | Surface | Silver      | mg/kg | 9.37E+00 | 1.64E-06  | 6.16E-06 | 1.06E-09   |                   |
| 195  | 10 | Surface | Chromium    | mg/kg | 4.51E+01 | 7.87E-06  | 3.70E-05 | 5.08E-09   |                   |
| 195  | 10 | Surface | Nickel      | mg/kg | 7.40E+01 | 1.29E-05  | 4.86E-05 | 8.34E-09   |                   |
| 195  | 10 | Surface | Silver      | mg/kg | 1.31E+01 | 2.29E-06  | 8.61E-06 | 1.48E-09   |                   |
| 195  | 11 | Surface | Aluminum    | mg/kg | 2.81E+04 | 4.91E-03  | 2.31E-02 | 3.17E-06   |                   |
| 195  | 11 | Surface | Arsenic     | mg/kg | 1.35E+01 | 2.35E-06  | 6.63E-06 | 1.52E-09   |                   |
| 195  | 11 | Surface | Barium      | mg/kg | 4.53E+02 | 7.92E-05  | 3.72E-04 | 5.11E-08   |                   |
| 195  | 11 | Surface | Chromium    | mg/kg | 5.05E+01 | 8.82E-06  | 4.15E-05 | 5.69E-09   |                   |
| 195  | 11 | Surface | Cobalt      | mg/kg | 2.77E+01 | 4.84E-06  | 2.27E-05 | 3.12E-09   |                   |
| 195  | 11 | Surface | Iron        | mg/kg | 1.97E+04 | 3.44E-03  | 1.62E-02 | 2.22E-06   |                   |
| 195  | 11 | Surface | Nickel      | mg/kg | 6.77E+01 | 1.18E-05  | 4.45E-05 | 7.63E-09   |                   |
| 195  | 11 | Surface | Thallium    | mg/kg | 6.60E-01 | 1.15E-07  | 5.42E-07 | 7.44E-11   |                   |
| 195  | 11 | Surface | Vanadium    | mg/kg | 7.97E+01 | 1.39E-05  | 3.40E-05 | 8.98E-09   |                   |
| 195  | 12 | Surface | Beryllium   | mg/kg | 7.50E-01 | 1.31E-07  | 8.62E-08 | 8.45E-11   |                   |
| 195  | 12 | Surface | Chromium    | mg/kg | 7.04E+01 | 1.23E-05  | 5.78E-05 | 7.93E-09   |                   |
| 195  | 12 | Surface | Nickel      | mg/kg | 6.78E+01 | 1.18E-05  | 4.45E-05 | 7.64E-09   |                   |
| 195  | 13 | Surface | Chromium    | mg/kg | 6.55E+01 | 1.14E-05  | 5.38E-05 | 7.38E-09   |                   |
| 195  | 13 | Surface | Nickel      | mg/kg | 6.91E+01 | 1.21E-05  | 4.54E-05 | 7.79E-09   |                   |
| 195  | 14 | Surface | Chromium    | mg/kg | 5.94E+01 | 1.04E-05  | 4.88E-05 | 6.70E-09   |                   |
| 195  | 14 | Surface | Nickel      | mg/kg | 7.04E+01 | 1.23E-05  | 4.62E-05 | 7.93E-09   |                   |
| 195  | 15 | Surface | Chromium    | mg/kg | 4.82E+01 | 8.42E-06  | 3.96E-05 | 5.43E-09   |                   |
| 195  | 16 | Surface | Chromium    | mg/kg | 4.45E+01 | 7.77E-06  | 3.65E-05 | 5.01E-09   |                   |
| 195  | 16 | Surface | Nickel      | mg/kg | 8.16E+01 | 1.43E-05  | 5.36E-05 | 9.20E-09   |                   |
| 195  | 17 | Surface | Chromium    | mg/kg | 8.22E+01 | 1.44E-05  | 6.75E-05 | 9.26E-09   |                   |
| 195  | 17 | Surface | Mercury     | mg/kg | 4.17E-01 | 7.29E-08  | 3.42E-07 | 1.40E-06   |                   |
| 195  | 17 | Surface | Nickel      | mg/kg | 5.93E+01 | 1.04E-05  | 3.90E-05 | 6.69E-09   |                   |
| 195  | 17 | Surface | PCB, Total  | mg/kg | 7.40E-01 | 1.29E-07  | 1.70E-06 | 1.41E-07   |                   |
| 195  | 17 | Surface | Silver      | mg/kg | 1.01E+01 | 1.77E-06  | 6.66E-06 | 1.14E-09   |                   |
| 195  | 17 | Surface | Thallium    | mg/kg | 5.40E-01 | 9.44E-08  | 4.43E-07 | 6.09E-11   |                   |
| 195  | 17 | Surface | Total PAH   | mg/kg | 3.16E-01 | 5.52E-08  | 6.74E-07 | 2.63E-09   |                   |
| 195  | 17 | Surface | Uranium-235 | pCi/g | 1.32E-01 | 4.13E+01  |          | 2.66E-02   | 6.03E-01          |
| 195  | 17 | Surface | Uranium-238 | pCi/g | 2.48E+00 | 7.75E+02  |          | 5.00E-01   | 1.13E+01          |
| 195  | 2  | Surface | Chromium    | mg/kg | 4.52E+01 | 7.90E-06  | 3.71E-05 | 5.10E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 195  | 2  | Surface | Silver        | mg/kg | 9.48E+00 | 1.66E-06  | 6.23E-06 | 1.07E-09   |                   |
| 195  | 2  | Surface | Total PAH     | mg/kg | 2.68E-02 | 4.68E-09  | 5.72E-08 | 2.23E-10   |                   |
| 195  | 3  | Surface | Chromium      | mg/kg | 5.03E+01 | 8.79E-06  | 4.13E-05 | 5.67E-09   |                   |
| 195  | 3  | Surface | Nickel        | mg/kg | 5.22E+01 | 9.11E-06  | 3.43E-05 | 5.88E-09   |                   |
| 195  | 3  | Surface | Total PAH     | mg/kg | 4.06E-02 | 7.09E-09  | 8.67E-08 | 3.38E-10   |                   |
| 195  | 4  | Surface | Chromium      | mg/kg | 5.29E+01 | 9.24E-06  | 4.34E-05 | 5.96E-09   |                   |
| 195  | 4  | Surface | Nickel        | mg/kg | 6.23E+01 | 1.09E-05  | 4.09E-05 | 7.02E-09   |                   |
| 195  | 5  | Surface | Chromium      | mg/kg | 5.74E+01 | 1.00E-05  | 4.71E-05 | 6.47E-09   |                   |
| 195  | 5  | Surface | Nickel        | mg/kg | 8.11E+01 | 1.42E-05  | 5.33E-05 | 9.14E-09   |                   |
| 195  | 5  | Surface | Total PAH     | mg/kg | 2.40E-02 | 4.19E-09  | 5.12E-08 | 2.00E-10   |                   |
| 195  | 6  | Surface | Chromium      | mg/kg | 4.45E+01 | 7.78E-06  | 3.66E-05 | 5.02E-09   |                   |
| 195  | 6  | Surface | Nickel        | mg/kg | 8.71E+01 | 1.52E-05  | 5.72E-05 | 9.82E-09   |                   |
| 195  | 6  | Surface | Total PAH     | mg/kg | 2.48E-01 | 4.33E-08  | 5.29E-07 | 2.06E-09   |                   |
| 195  | 7  | Surface | Chromium      | mg/kg | 4.93E+01 | 8.61E-06  | 4.05E-05 | 5.55E-09   |                   |
| 195  | 7  | Surface | Silver        | mg/kg | 8.06E+00 | 1.41E-06  | 5.30E-06 | 9.09E-10   |                   |
| 195  | 8  | Surface | Arsenic       | mg/kg | 1.16E+01 | 2.02E-06  | 5.70E-06 | 1.30E-09   |                   |
| 195  | 8  | Surface | Beryllium     | mg/kg | 7.40E-01 | 1.29E-07  | 8.51E-08 | 8.34E-11   |                   |
| 195  | 8  | Surface | Chromium      | mg/kg | 6.79E+01 | 1.19E-05  | 5.58E-05 | 7.66E-09   |                   |
| 195  | 8  | Surface | Cobalt        | mg/kg | 1.82E+01 | 3.18E-06  | 1.49E-05 | 2.05E-09   |                   |
| 195  | 8  | Surface | Nickel        | mg/kg | 7.01E+01 | 1.23E-05  | 4.61E-05 | 7.90E-09   |                   |
| 195  | 8  | Surface | Total PAH     | mg/kg | 2.16E-01 | 3.77E-08  | 4.60E-07 | 1.80E-09   |                   |
| 195  | 8  | Surface | Vanadium      | mg/kg | 4.04E+01 | 7.06E-06  | 1.73E-05 | 4.55E-09   |                   |
| 195  | 9  | Surface | Chromium      | mg/kg | 6.08E+01 | 1.06E-05  | 4.99E-05 | 6.85E-09   |                   |
| 195  | 9  | Surface | Nickel        | mg/kg | 7.93E+01 | 1.39E-05  | 5.21E-05 | 8.94E-09   |                   |
| 486  | 1  | Surface | Cesium-137    | pCi/g | 1.71E+00 | 5.34E+02  |          | 3.45E-01   | 7.81E+00          |
| 487  | 1  | Surface | Cesium-137    | pCi/g | 1.38E+00 | 4.31E+02  |          | 2.78E-01   | 6.30E+00          |
| 492  | 1  | Surface | Arsenic       | mg/kg | 1.47E+01 | 2.57E-06  | 7.24E-06 | 1.66E-09   |                   |
| 492  | 1  | Surface | Beryllium     | mg/kg | 1.04E+01 | 1.82E-06  | 1.20E-06 | 1.17E-09   |                   |
| 492  | 1  | Surface | Cadmium       | mg/kg | 3.14E+00 | 5.49E-07  | 5.16E-08 | 3.54E-10   |                   |
| 492  | 1  | Surface | Chromium      | mg/kg | 1.04E+03 | 1.82E-04  | 8.54E-04 | 1.17E-07   |                   |
| 492  | 1  | Surface | PCB, Total    | mg/kg | 4.41E+01 | 7.71E-06  | 1.01E-04 | 8.38E-06   |                   |
| 492  | 1  | Surface | Uranium       | mg/kg | 1.77E+03 | 3.09E-04  | 1.45E-03 | 2.00E-07   |                   |
| 492  | 1  | Surface | Vanadium      | mg/kg | 4.32E+01 | 7.55E-06  | 1.84E-05 | 4.87E-09   |                   |
| 492  | 1  | Surface | Cobalt-60     | pCi/g | 9.63E-03 | 3.01E+00  |          | 1.94E-03   | 4.40E-02          |
| 492  | 1  | Surface | Neptunium-237 | pCi/g | 2.09E-01 | 6.53E+01  |          | 4.21E-02   | 9.54E-01          |
| 492  | 1  | Surface | Uranium-234   | pCi/g | 5.39E+01 | 1.68E+04  |          | 1.09E+01   | 2.46E+02          |
| 492  | 1  | Surface | Uranium-235   | pCi/g | 5.72E+00 | 1.79E+03  |          | 1.15E+00   | 2.61E+01          |
| 492  | 1  | Surface | Uranium-238   | pCi/g | 3.83E+02 | 1.20E+05  |          | 7.72E+01   | 1.75E+03          |
| 493  | 1  | Surface | Aluminum      | mg/kg | 1.44E+04 | 2.52E-03  | 1.18E-02 | 1.62E-06   |                   |
| 493  | 1  | Surface | Barium        | mg/kg | 4.04E+02 | 7.06E-05  | 3.32E-04 | 4.55E-08   |                   |
| 493  | 1  | Surface | Beryllium     | mg/kg | 9.91E-01 | 1.73E-07  | 1.14E-07 | 1.12E-10   |                   |
| 493  | 1  | Surface | Chromium      | mg/kg | 6.61E+01 | 1.15E-05  | 5.43E-05 | 7.45E-09   |                   |
| 493  | 1  | Surface | Cobalt        | mg/kg | 3.79E+01 | 6.62E-06  | 3.11E-05 | 4.27E-09   |                   |
| 493  | 1  | Surface | Manganese     | mg/kg | 3.55E+03 | 6.20E-04  | 2.33E-03 | 4.00E-07   |                   |
| 493  | 1  | Surface | Mercury       | mg/kg | 2.60E-01 | 4.54E-08  | 2.14E-07 | 8.74E-07   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 493  | 1  | Surface | Nickel        | mg/kg | 2.13E+02 | 3.72E-05  | 1.40E-04 | 2.40E-08   |                   |
| 493  | 1  | Surface | PCB, Total    | mg/kg | 2.60E-01 | 4.54E-08  | 5.98E-07 | 4.94E-08   |                   |
| 493  | 1  | Surface | Total PAH     | mg/kg | 5.00E-01 | 8.74E-08  | 1.07E-06 | 4.17E-09   |                   |
| 493  | 1  | Surface | Vanadium      | mg/kg | 4.05E+01 | 7.08E-06  | 1.73E-05 | 4.57E-09   |                   |
| 493  | 1  | Surface | Cobalt-60     | pCi/g | 1.36E-02 | 4.25E+00  |          | 2.74E-03   | 6.21E-02          |
| 493  | 1  | Surface | Neptunium-237 | pCi/g | 1.22E-01 | 3.81E+01  |          | 2.46E-02   | 5.57E-01          |
| 493  | 1  | Surface | Uranium-235   | pCi/g | 1.65E-01 | 5.16E+01  |          | 3.33E-02   | 7.53E-01          |
| 493  | 1  | Surface | Uranium-238   | pCi/g | 5.50E+00 | 1.72E+03  |          | 1.11E+00   | 2.51E+01          |
| 517  | 1  | Surface | Beryllium     | mg/kg | 7.39E-01 | 1.29E-07  | 8.50E-08 | 8.33E-11   |                   |
| 517  | 1  | Surface | Chromium      | mg/kg | 4.91E+01 | 8.58E-06  | 4.03E-05 | 5.53E-09   |                   |
| 517  | 1  | Surface | Nickel        | mg/kg | 1.72E+02 | 3.01E-05  | 1.13E-04 | 1.94E-08   |                   |
| 517  | 1  | Surface | PCB, Total    | mg/kg | 5.00E-01 | 8.74E-08  | 1.15E-06 | 9.50E-08   |                   |
| 517  | 1  | Surface | Cobalt-60     | pCi/g | 6.39E-03 | 2.00E+00  |          | 1.29E-03   | 2.92E-02          |
| 517  | 1  | Surface | Neptunium-237 | pCi/g | 1.07E+00 | 3.34E+02  |          | 2.16E-01   | 4.89E+00          |
| 517  | 1  | Surface | Uranium-235   | pCi/g | 1.60E-01 | 5.00E+01  |          | 3.23E-02   | 7.31E-01          |
| 517  | 1  | Surface | Uranium-238   | pCi/g | 3.89E+00 | 1.22E+03  |          | 7.84E-01   | 1.78E+01          |
| 541  | 1  | Surface | Aluminum      | mg/kg | 1.43E+04 | 2.50E-03  | 1.17E-02 | 1.61E-06   |                   |
| 541  | 1  | Surface | Barium        | mg/kg | 1.28E+02 | 2.24E-05  | 1.05E-04 | 1.44E-08   |                   |
| 541  | 1  | Surface | Beryllium     | mg/kg | 6.98E-01 | 1.22E-07  | 8.02E-08 | 7.87E-11   |                   |
| 541  | 1  | Surface | Cadmium       | mg/kg | 1.68E+00 | 2.94E-07  | 2.76E-08 | 1.90E-10   |                   |
| 541  | 1  | Surface | Chromium      | mg/kg | 8.24E+02 | 1.44E-04  | 6.77E-04 | 9.29E-08   |                   |
| 541  | 1  | Surface | Iron          | mg/kg | 1.60E+04 | 2.79E-03  | 1.31E-02 | 1.80E-06   |                   |
| 541  | 1  | Surface | Mercury       | mg/kg | 9.81E-02 | 1.71E-08  | 8.06E-08 | 3.30E-07   |                   |
| 541  | 1  | Surface | Naphthalene   | mg/kg | 6.55E-01 | 1.14E-07  | 2.69E-06 | 2.46E-06   |                   |
| 541  | 1  | Surface | Nickel        | mg/kg | 1.52E+01 | 2.66E-06  | 1.00E-05 | 1.72E-09   |                   |
| 541  | 1  | Surface | PCB, Total    | mg/kg | 6.06E+01 | 1.06E-05  | 1.39E-04 | 1.15E-05   |                   |
| 541  | 1  | Surface | Total PAH     | mg/kg | 2.33E+00 | 4.07E-07  | 4.97E-06 | 1.94E-08   |                   |
| 541  | 1  | Surface | Uranium       | mg/kg | 6.38E+03 | 1.12E-03  | 5.24E-03 | 7.20E-07   |                   |
| 541  | 1  | Surface | Vanadium      | mg/kg | 3.04E+01 | 5.32E-06  | 1.30E-05 | 3.43E-09   |                   |
| 541  | 1  | Surface | Americium-241 | pCi/g | 7.53E+00 | 2.35E+03  |          | 1.52E+00   | 3.44E+01          |
| 541  | 1  | Surface | Cesium-137    | pCi/g | 9.58E-01 | 2.99E+02  |          | 1.93E-01   | 4.37E+00          |
| 541  | 1  | Surface | Cobalt-60     | pCi/g | 1.01E-02 | 3.16E+00  |          | 2.04E-03   | 4.61E-02          |
| 541  | 1  | Surface | Neptunium-237 | pCi/g | 5.52E-02 | 1.73E+01  |          | 1.11E-02   | 2.52E-01          |
| 541  | 1  | Surface | Uranium-234   | pCi/g | 1.43E+02 | 4.47E+04  |          | 2.88E+01   | 6.53E+02          |
| 541  | 1  | Surface | Uranium-235   | pCi/g | 1.76E+01 | 5.49E+03  |          | 3.54E+00   | 8.02E+01          |
| 541  | 1  | Surface | Uranium-238   | pCi/g | 1.00E+03 | 3.13E+05  |          | 2.02E+02   | 4.57E+03          |
| 561  | 1  | Surface | Antimony      | mg/kg | 9.36E-01 | 1.64E-07  | 7.69E-07 | 1.06E-10   |                   |
| 561  | 1  | Surface | Arsenic       | mg/kg | 1.66E+01 | 2.89E-06  | 8.15E-06 | 1.87E-09   |                   |
| 561  | 1  | Surface | Barium        | mg/kg | 1.40E+02 | 2.45E-05  | 1.15E-04 | 1.58E-08   |                   |
| 561  | 1  | Surface | Beryllium     | mg/kg | 6.85E-01 | 1.20E-07  | 7.88E-08 | 7.72E-11   |                   |
| 561  | 1  | Surface | Chromium      | mg/kg | 8.58E+01 | 1.50E-05  | 7.04E-05 | 9.67E-09   |                   |
| 561  | 1  | Surface | Cobalt        | mg/kg | 1.07E+01 | 1.87E-06  | 8.78E-06 | 1.21E-09   |                   |
| 561  | 1  | Surface | Iron          | mg/kg | 2.05E+04 | 3.58E-03  | 1.68E-02 | 2.31E-06   |                   |
| 561  | 1  | Surface | Manganese     | mg/kg | 1.61E+03 | 2.81E-04  | 1.06E-03 | 1.81E-07   |                   |
| 561  | 1  | Surface | PCB, Total    | mg/kg | 1.04E+00 | 1.82E-07  | 2.40E-06 | 1.98E-07   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 561  | 1  | Surface | Thallium      | mg/kg | 3.33E-01 | 5.82E-08  | 2.73E-07 | 3.75E-11   |                   |
| 561  | 1  | Surface | Total PAH     | mg/kg | 3.94E-01 | 6.88E-08  | 8.41E-07 | 3.28E-09   |                   |
| 561  | 1  | Surface | Uranium       | mg/kg | 2.65E+02 | 4.63E-05  | 2.17E-04 | 2.99E-08   |                   |
| 561  | 1  | Surface | Vanadium      | mg/kg | 3.76E+01 | 6.58E-06  | 1.61E-05 | 4.24E-09   |                   |
| 561  | 1  | Surface | Cobalt-60     | pCi/g | 7.06E-02 | 2.21E+01  |          | 1.42E-02   | 3.22E-01          |
| 561  | 1  | Surface | Neptunium-237 | pCi/g | 2.71E-02 | 8.47E+00  |          | 5.46E-03   | 1.24E-01          |
| 561  | 1  | Surface | Uranium-234   | pCi/g | 7.84E+00 | 2.45E+03  |          | 1.58E+00   | 3.58E+01          |
| 561  | 1  | Surface | Uranium-235   | pCi/g | 1.37E+00 | 4.27E+02  |          | 2.75E-01   | 6.24E+00          |
| 561  | 1  | Surface | Uranium-238   | pCi/g | 1.07E+02 | 3.33E+04  |          | 2.15E+01   | 4.86E+02          |
| 561  | 2  | Surface | Antimony      | mg/kg | 5.33E+00 | 9.32E-07  | 4.38E-06 | 6.01E-10   |                   |
| 561  | 2  | Surface | Arsenic       | mg/kg | 1.30E+01 | 2.27E-06  | 6.41E-06 | 1.47E-09   |                   |
| 561  | 2  | Surface | Beryllium     | mg/kg | 6.34E-01 | 1.11E-07  | 7.29E-08 | 7.15E-11   |                   |
| 561  | 2  | Surface | Cadmium       | mg/kg | 4.13E-01 | 7.22E-08  | 6.78E-09 | 4.66E-11   |                   |
| 561  | 2  | Surface | Chromium      | mg/kg | 2.88E+02 | 5.04E-05  | 2.37E-04 | 3.25E-08   |                   |
| 561  | 2  | Surface | Cobalt        | mg/kg | 1.14E+01 | 1.99E-06  | 9.36E-06 | 1.29E-09   |                   |
| 561  | 2  | Surface | Manganese     | mg/kg | 1.12E+03 | 1.95E-04  | 7.33E-04 | 1.26E-07   |                   |
| 561  | 2  | Surface | PCB, Total    | mg/kg | 1.64E+01 | 2.87E-06  | 3.78E-05 | 3.12E-06   |                   |
| 561  | 2  | Surface | Thallium      | mg/kg | 4.09E-01 | 7.15E-08  | 3.36E-07 | 4.61E-11   |                   |
| 561  | 2  | Surface | Total PAH     | mg/kg | 2.43E+00 | 4.25E-07  | 5.19E-06 | 2.03E-08   |                   |
| 561  | 2  | Surface | Uranium       | mg/kg | 1.38E+03 | 2.42E-04  | 1.14E-03 | 1.56E-07   |                   |
| 561  | 2  | Surface | Vanadium      | mg/kg | 3.46E+01 | 6.04E-06  | 1.48E-05 | 3.89E-09   |                   |
| 561  | 2  | Surface | Cesium-137    | pCi/g | 4.09E-01 | 1.28E+02  |          | 8.25E-02   | 1.87E+00          |
| 561  | 2  | Surface | Cobalt-60     | pCi/g | 2.76E-02 | 8.63E+00  |          | 5.56E-03   | 1.26E-01          |
| 561  | 2  | Surface | Neptunium-237 | pCi/g | 4.71E-02 | 1.47E+01  |          | 9.50E-03   | 2.15E-01          |
| 561  | 2  | Surface | Uranium-234   | pCi/g | 4.06E+01 | 1.27E+04  |          | 8.19E+00   | 1.86E+02          |
| 561  | 2  | Surface | Uranium-235   | pCi/g | 7.09E+00 | 2.22E+03  |          | 1.43E+00   | 3.24E+01          |
| 561  | 2  | Surface | Uranium-238   | pCi/g | 4.00E+02 | 1.25E+05  |          | 8.07E+01   | 1.83E+03          |
| 562  | 1  | Surface | Uranium       | mg/kg | 8.73E+01 | 1.53E-05  | 7.17E-05 | 9.84E-09   |                   |
| 562  | 1  | Surface | Uranium-238   | pCi/g | 2.73E+00 | 8.53E+02  |          | 5.50E-01   | 1.25E+01          |
| 562  | 2  | Surface | PCB, Total    | mg/kg | 1.58E+00 | 2.76E-07  | 3.63E-06 | 3.00E-07   |                   |
| 562  | 2  | Surface | Uranium-234   | pCi/g | 5.34E+01 | 1.67E+04  |          | 1.08E+01   | 2.44E+02          |
| 562  | 2  | Surface | Uranium-235   | pCi/g | 8.96E+00 | 2.80E+03  |          | 1.81E+00   | 4.09E+01          |
| 562  | 2  | Surface | Uranium-238   | pCi/g | 5.81E+02 | 1.82E+05  |          | 1.17E+02   | 2.65E+03          |
| 562  | 3  | Surface | Chromium      | mg/kg | 3.82E+01 | 6.67E-06  | 3.13E-05 | 4.30E-09   |                   |
| 562  | 3  | Surface | PCB, Total    | mg/kg | 2.40E-01 | 4.19E-08  | 5.52E-07 | 4.56E-08   |                   |
| 562  | 3  | Surface | Total PAH     | mg/kg | 2.20E-01 | 3.84E-08  | 4.70E-07 | 1.83E-09   |                   |
| 562  | 3  | Surface | Uranium       | mg/kg | 5.89E+01 | 1.03E-05  | 4.84E-05 | 6.64E-09   |                   |
| 562  | 3  | Surface | Uranium-235   | pCi/g | 1.63E-01 | 5.09E+01  |          | 3.29E-02   | 7.44E-01          |
| 562  | 3  | Surface | Uranium-238   | pCi/g | 1.09E+01 | 3.41E+03  |          | 2.20E+00   | 4.98E+01          |
| 562  | 4  | Surface | Chromium      | mg/kg | 4.67E+01 | 8.15E-06  | 3.83E-05 | 5.26E-09   |                   |
| 562  | 4  | Surface | Uranium       | mg/kg | 2.10E+01 | 3.67E-06  | 1.72E-05 | 2.37E-09   |                   |
| 562  | 4  | Surface | Uranium-238   | pCi/g | 2.24E+00 | 7.00E+02  |          | 4.52E-01   | 1.02E+01          |
| 562  | 5  | Surface | Chromium      | mg/kg | 1.53E+02 | 2.68E-05  | 1.26E-04 | 1.73E-08   |                   |
| 562  | 5  | Surface | PCB, Total    | mg/kg | 9.50E-01 | 1.66E-07  | 2.18E-06 | 1.81E-07   |                   |
| 562  | 5  | Surface | Total PAH     | mg/kg | 7.05E-02 | 1.23E-08  | 1.51E-07 | 5.88E-10   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration



**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 562  | 5  | Surface | Uranium       | mg/kg | 2.08E+02 | 3.63E-05  | 1.71E-04 | 2.34E-08   |                   |
| 562  | 5  | Surface | Uranium-234   | pCi/g | 8.57E+00 | 2.68E+03  |          | 1.73E+00   | 3.91E+01          |
| 562  | 5  | Surface | Uranium-235   | pCi/g | 9.50E-01 | 2.97E+02  |          | 1.92E-01   | 4.34E+00          |
| 562  | 5  | Surface | Uranium-238   | pCi/g | 6.24E+01 | 1.95E+04  |          | 1.26E+01   | 2.85E+02          |
| 562  | 6  | Surface | Barium        | mg/kg | 2.66E+02 | 4.65E-05  | 2.19E-04 | 3.00E-08   |                   |
| 562  | 6  | Surface | Uranium-234   | pCi/g | 4.01E+01 | 1.25E+04  |          | 8.09E+00   | 1.83E+02          |
| 562  | 6  | Surface | Uranium-235   | pCi/g | 6.81E+00 | 2.13E+03  |          | 1.37E+00   | 3.11E+01          |
| 562  | 6  | Surface | Uranium-238   | pCi/g | 3.62E+02 | 1.13E+05  |          | 7.29E+01   | 1.65E+03          |
| 563  | 1  | Surface | Cadmium       | mg/kg | 8.96E-01 | 1.57E-07  | 1.47E-08 | 1.01E-10   |                   |
| 563  | 1  | Surface | Chromium      | mg/kg | 2.85E+02 | 4.98E-05  | 2.34E-04 | 3.21E-08   |                   |
| 563  | 1  | Surface | PCB, Total    | mg/kg | 7.40E-01 | 1.29E-07  | 1.70E-06 | 1.41E-07   |                   |
| 563  | 1  | Surface | Uranium       | mg/kg | 1.51E+01 | 2.64E-06  | 1.24E-05 | 1.70E-09   |                   |
| 563  | 1  | Surface | Uranium-238   | pCi/g | 2.76E+00 | 8.63E+02  |          | 5.56E-01   | 1.26E+01          |
| 563  | 2  | Surface | Cesium-137    | pCi/g | 6.47E-01 | 2.02E+02  |          | 1.30E-01   | 2.95E+00          |
| 563  | 2  | Surface | Uranium-238   | pCi/g | 1.49E+00 | 4.66E+02  |          | 3.00E-01   | 6.80E+00          |
| 564  | 1  | Surface | Arsenic       | mg/kg | 4.30E+01 | 7.51E-06  | 2.12E-05 | 4.85E-09   |                   |
| 564  | 1  | Surface | Beryllium     | mg/kg | 2.12E+00 | 3.70E-07  | 2.44E-07 | 2.39E-10   |                   |
| 564  | 1  | Surface | Cadmium       | mg/kg | 1.96E+00 | 3.42E-07  | 3.22E-08 | 2.21E-10   |                   |
| 564  | 1  | Surface | Chromium      | mg/kg | 7.49E+01 | 1.31E-05  | 6.15E-05 | 8.45E-09   |                   |
| 564  | 1  | Surface | Iron          | mg/kg | 3.66E+04 | 6.40E-03  | 3.01E-02 | 4.13E-06   |                   |
| 564  | 1  | Surface | Mercury       | mg/kg | 2.30E-01 | 4.02E-08  | 1.89E-07 | 7.73E-07   |                   |
| 564  | 1  | Surface | Nickel        | mg/kg | 2.24E+01 | 3.91E-06  | 1.47E-05 | 2.53E-09   |                   |
| 564  | 1  | Surface | PCB, Total    | mg/kg | 1.93E+00 | 3.37E-07  | 4.44E-06 | 3.67E-07   |                   |
| 564  | 1  | Surface | Thallium      | mg/kg | 2.36E+00 | 4.12E-07  | 1.94E-06 | 2.66E-10   |                   |
| 564  | 1  | Surface | Uranium       | mg/kg | 5.83E+01 | 1.02E-05  | 4.79E-05 | 6.57E-09   |                   |
| 564  | 1  | Surface | Vanadium      | mg/kg | 8.06E+01 | 1.41E-05  | 3.44E-05 | 9.09E-09   |                   |
| 564  | 1  | Surface | Cesium-137    | pCi/g | 6.20E-01 | 1.94E+02  |          | 1.25E-01   | 2.83E+00          |
| 564  | 1  | Surface | Thorium-230   | pCi/g | 5.01E+00 | 1.57E+03  |          | 1.01E+00   | 2.29E+01          |
| 564  | 1  | Surface | Uranium-234   | pCi/g | 6.93E+00 | 2.17E+03  |          | 1.40E+00   | 3.16E+01          |
| 564  | 1  | Surface | Uranium-235   | pCi/g | 3.87E-01 | 1.21E+02  |          | 7.80E-02   | 1.77E+00          |
| 564  | 1  | Surface | Uranium-238   | pCi/g | 8.33E+00 | 2.60E+03  |          | 1.68E+00   | 3.80E+01          |
| 567  | 3  | Surface | Chromium      | mg/kg | 3.79E+01 | 6.62E-06  | 3.11E-05 | 4.27E-09   |                   |
| 567  | 4  | Surface | Aluminum      | mg/kg | 1.25E+04 | 2.19E-03  | 1.03E-02 | 1.41E-06   |                   |
| 567  | 4  | Surface | Chromium      | mg/kg | 1.63E+01 | 2.85E-06  | 1.34E-05 | 1.84E-09   |                   |
| 567  | 4  | Surface | Uranium-238   | pCi/g | 1.05E+00 | 3.28E+02  |          | 2.11E-01   | 4.79E+00          |
| 14   | 1  | Surface | Arsenic       | mg/kg | 1.10E+01 | 1.92E-06  | 5.41E-06 | 1.24E-09   |                   |
| 14   | 1  | Surface | Chromium      | mg/kg | 6.36E+01 | 1.11E-05  | 5.22E-05 | 7.17E-09   |                   |
| 14   | 1  | Surface | Iron          | mg/kg | 1.89E+04 | 3.30E-03  | 1.55E-02 | 2.13E-06   |                   |
| 14   | 1  | Surface | Nickel        | mg/kg | 1.40E+02 | 2.44E-05  | 9.18E-05 | 1.57E-08   |                   |
| 14   | 1  | Surface | PCB, Total    | mg/kg | 5.00E-01 | 8.74E-08  | 1.15E-06 | 9.50E-08   |                   |
| 14   | 1  | Surface | Silver        | mg/kg | 1.67E+01 | 2.92E-06  | 1.10E-05 | 1.88E-09   |                   |
| 14   | 1  | Surface | Uranium       | mg/kg | 7.21E+01 | 1.26E-05  | 5.92E-05 | 8.13E-09   |                   |
| 14   | 1  | Surface | Americium-241 | pCi/g | 1.27E+00 | 3.96E+02  |          | 2.55E-01   | 5.79E+00          |
| 14   | 1  | Surface | Neptunium-237 | pCi/g | 2.14E-01 | 6.69E+01  |          | 4.31E-02   | 9.77E-01          |
| 14   | 1  | Surface | Technetium-99 | pCi/g | 4.06E+02 | 1.27E+05  |          | 8.19E+01   | 1.85E+03          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 1  | Surface | Uranium-238   | pCi/g | 1.69E+00 | 5.28E+02  |          | 3.41E-01   | 7.72E+00          |
| 14   | 10 | Surface | Antimony      | mg/kg | 9.40E-01 | 1.64E-07  | 7.72E-07 | 1.06E-10   |                   |
| 14   | 10 | Surface | Arsenic       | mg/kg | 1.12E+01 | 1.96E-06  | 5.54E-06 | 1.27E-09   |                   |
| 14   | 10 | Surface | Chromium      | mg/kg | 4.19E+01 | 7.31E-06  | 3.44E-05 | 4.72E-09   |                   |
| 14   | 10 | Surface | Copper        | mg/kg | 1.41E+02 | 2.47E-05  | 1.16E-04 | 1.59E-08   |                   |
| 14   | 10 | Surface | Iron          | mg/kg | 2.75E+04 | 4.80E-03  | 2.25E-02 | 3.09E-06   |                   |
| 14   | 10 | Surface | Mercury       | mg/kg | 2.51E+01 | 4.38E-06  | 2.06E-05 | 8.43E-05   |                   |
| 14   | 10 | Surface | Nickel        | mg/kg | 6.00E+02 | 1.05E-04  | 3.94E-04 | 6.77E-08   |                   |
| 14   | 10 | Surface | PCB, Total    | mg/kg | 9.38E+00 | 1.64E-06  | 2.16E-05 | 1.78E-06   |                   |
| 14   | 10 | Surface | Total PAH     | mg/kg | 2.72E-01 | 4.74E-08  | 5.80E-07 | 2.26E-09   |                   |
| 14   | 10 | Surface | Uranium       | mg/kg | 2.88E+02 | 5.04E-05  | 2.37E-04 | 3.25E-08   |                   |
| 14   | 10 | Surface | Neptunium-237 | pCi/g | 2.64E+00 | 8.25E+02  |          | 5.32E-01   | 1.21E+01          |
| 14   | 10 | Surface | Uranium-234   | pCi/g | 2.42E+01 | 7.56E+03  |          | 4.88E+00   | 1.11E+02          |
| 14   | 10 | Surface | Uranium-235   | pCi/g | 1.76E+00 | 5.50E+02  |          | 3.55E-01   | 8.04E+00          |
| 14   | 10 | Surface | Uranium-238   | pCi/g | 4.09E+01 | 1.28E+04  |          | 8.25E+00   | 1.87E+02          |
| 14   | 2  | Surface | Antimony      | mg/kg | 3.70E+00 | 6.46E-07  | 3.04E-06 | 4.17E-10   |                   |
| 14   | 2  | Surface | Arsenic       | mg/kg | 1.45E+01 | 2.54E-06  | 7.16E-06 | 1.64E-09   |                   |
| 14   | 2  | Surface | Beryllium     | mg/kg | 7.10E-01 | 1.24E-07  | 8.16E-08 | 8.00E-11   |                   |
| 14   | 2  | Surface | Chromium      | mg/kg | 6.65E+01 | 1.16E-05  | 5.46E-05 | 7.50E-09   |                   |
| 14   | 2  | Surface | Copper        | mg/kg | 1.76E+02 | 3.08E-05  | 1.45E-04 | 1.99E-08   |                   |
| 14   | 2  | Surface | Iron          | mg/kg | 3.72E+04 | 6.50E-03  | 3.05E-02 | 4.19E-06   |                   |
| 14   | 2  | Surface | Manganese     | mg/kg | 1.44E+03 | 2.52E-04  | 9.47E-04 | 1.63E-07   |                   |
| 14   | 2  | Surface | Mercury       | mg/kg | 2.67E-01 | 4.67E-08  | 2.19E-07 | 8.97E-07   |                   |
| 14   | 2  | Surface | Nickel        | mg/kg | 6.78E+02 | 1.18E-04  | 4.45E-04 | 7.64E-08   |                   |
| 14   | 2  | Surface | PCB, Total    | mg/kg | 3.90E-01 | 6.81E-08  | 8.97E-07 | 7.41E-08   |                   |
| 14   | 2  | Surface | Total PAH     | mg/kg | 3.38E-01 | 5.91E-08  | 7.22E-07 | 2.82E-09   |                   |
| 14   | 2  | Surface | Uranium       | mg/kg | 2.93E+02 | 5.12E-05  | 2.41E-04 | 3.31E-08   |                   |
| 14   | 2  | Surface | Neptunium-237 | pCi/g | 7.70E-01 | 2.41E+02  |          | 1.55E-01   | 3.52E+00          |
| 14   | 2  | Surface | Thorium-230   | pCi/g | 5.98E+00 | 1.87E+03  |          | 1.21E+00   | 2.73E+01          |
| 14   | 2  | Surface | Uranium-234   | pCi/g | 3.24E+01 | 1.01E+04  |          | 6.53E+00   | 1.48E+02          |
| 14   | 2  | Surface | Uranium-235   | pCi/g | 2.00E+00 | 6.25E+02  |          | 4.03E-01   | 9.13E+00          |
| 14   | 2  | Surface | Uranium-238   | pCi/g | 5.61E+01 | 1.75E+04  |          | 1.13E+01   | 2.56E+02          |
| 14   | 3  | Surface | Arsenic       | mg/kg | 1.30E+01 | 2.27E-06  | 6.39E-06 | 1.46E-09   |                   |
| 14   | 3  | Surface | Chromium      | mg/kg | 7.01E+01 | 1.23E-05  | 5.76E-05 | 7.91E-09   |                   |
| 14   | 3  | Surface | Copper        | mg/kg | 1.29E+02 | 2.26E-05  | 1.06E-04 | 1.46E-08   |                   |
| 14   | 3  | Surface | Iron          | mg/kg | 3.48E+04 | 6.09E-03  | 2.86E-02 | 3.93E-06   |                   |
| 14   | 3  | Surface | Manganese     | mg/kg | 1.06E+03 | 1.85E-04  | 6.94E-04 | 1.19E-07   |                   |
| 14   | 3  | Surface | Mercury       | mg/kg | 7.48E+00 | 1.31E-06  | 6.14E-06 | 2.51E-05   |                   |
| 14   | 3  | Surface | Molybdenum    | mg/kg | 2.21E+01 | 3.86E-06  | 1.81E-05 | 2.49E-09   |                   |
| 14   | 3  | Surface | Nickel        | mg/kg | 5.76E+02 | 1.01E-04  | 3.79E-04 | 6.50E-08   |                   |
| 14   | 3  | Surface | PCB, Total    | mg/kg | 8.65E+00 | 1.51E-06  | 1.99E-05 | 1.64E-06   |                   |
| 14   | 3  | Surface | Uranium       | mg/kg | 2.18E+02 | 3.80E-05  | 1.79E-04 | 2.45E-08   |                   |
| 14   | 3  | Surface | Uranium-238   | pCi/g | 1.50E+00 | 4.69E+02  |          | 3.02E-01   | 6.85E+00          |
| 14   | 4  | Surface | Antimony      | mg/kg | 4.30E+00 | 7.51E-07  | 3.53E-06 | 4.85E-10   |                   |
| 14   | 4  | Surface | Arsenic       | mg/kg | 1.33E+01 | 2.32E-06  | 6.54E-06 | 1.50E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 4  | Surface | Chromium      | mg/kg | 7.20E+01 | 1.26E-05  | 5.92E-05 | 8.12E-09   |                   |
| 14   | 4  | Surface | Copper        | mg/kg | 3.54E+02 | 6.18E-05  | 2.90E-04 | 3.98E-08   |                   |
| 14   | 4  | Surface | Iron          | mg/kg | 3.88E+04 | 6.79E-03  | 3.19E-02 | 4.38E-06   |                   |
| 14   | 4  | Surface | Mercury       | mg/kg | 4.87E-01 | 8.51E-08  | 4.00E-07 | 1.64E-06   |                   |
| 14   | 4  | Surface | Nickel        | mg/kg | 7.31E+02 | 1.28E-04  | 4.80E-04 | 8.23E-08   |                   |
| 14   | 4  | Surface | PCB, Total    | mg/kg | 6.61E+00 | 1.15E-06  | 1.52E-05 | 1.26E-06   |                   |
| 14   | 4  | Surface | Silver        | mg/kg | 1.17E+01 | 2.04E-06  | 7.69E-06 | 1.32E-09   |                   |
| 14   | 4  | Surface | Total PAH     | mg/kg | 2.51E-01 | 4.38E-08  | 5.35E-07 | 2.09E-09   |                   |
| 14   | 4  | Surface | Uranium       | mg/kg | 3.72E+02 | 6.50E-05  | 3.05E-04 | 4.19E-08   |                   |
| 14   | 4  | Surface | Neptunium-237 | pCi/g | 2.68E+00 | 8.38E+02  |          | 5.40E-01   | 1.22E+01          |
| 14   | 4  | Surface | Thorium-230   | pCi/g | 8.33E+00 | 2.60E+03  |          | 1.68E+00   | 3.80E+01          |
| 14   | 4  | Surface | Uranium-234   | pCi/g | 1.13E+02 | 3.53E+04  |          | 2.28E+01   | 5.16E+02          |
| 14   | 4  | Surface | Uranium-235   | pCi/g | 8.00E+00 | 2.50E+03  |          | 1.61E+00   | 3.65E+01          |
| 14   | 4  | Surface | Uranium-238   | pCi/g | 1.69E+02 | 5.28E+04  |          | 3.41E+01   | 7.72E+02          |
| 14   | 5  | Surface | Antimony      | mg/kg | 2.30E+00 | 4.02E-07  | 1.89E-06 | 2.59E-10   |                   |
| 14   | 5  | Surface | Arsenic       | mg/kg | 1.31E+01 | 2.29E-06  | 6.44E-06 | 1.47E-09   |                   |
| 14   | 5  | Surface | Cadmium       | mg/kg | 3.90E+00 | 6.81E-07  | 6.41E-08 | 4.40E-10   |                   |
| 14   | 5  | Surface | Chromium      | mg/kg | 4.70E+01 | 8.21E-06  | 3.86E-05 | 5.29E-09   |                   |
| 14   | 5  | Surface | Cobalt        | mg/kg | 1.40E+01 | 2.45E-06  | 1.15E-05 | 1.58E-09   |                   |
| 14   | 5  | Surface | Copper        | mg/kg | 1.34E+02 | 2.33E-05  | 1.10E-04 | 1.50E-08   |                   |
| 14   | 5  | Surface | Iron          | mg/kg | 3.92E+04 | 6.85E-03  | 3.22E-02 | 4.42E-06   |                   |
| 14   | 5  | Surface | Manganese     | mg/kg | 8.28E+02 | 1.45E-04  | 5.44E-04 | 9.33E-08   |                   |
| 14   | 5  | Surface | Mercury       | mg/kg | 1.09E+01 | 1.91E-06  | 8.98E-06 | 3.68E-05   |                   |
| 14   | 5  | Surface | Nickel        | mg/kg | 4.61E+02 | 8.06E-05  | 3.03E-04 | 5.20E-08   |                   |
| 14   | 5  | Surface | PCB, Total    | mg/kg | 1.00E+00 | 1.75E-07  | 2.30E-06 | 1.90E-07   |                   |
| 14   | 5  | Surface | Silver        | mg/kg | 1.29E+01 | 2.25E-06  | 8.46E-06 | 1.45E-09   |                   |
| 14   | 5  | Surface | Thallium      | mg/kg | 4.10E-01 | 7.16E-08  | 3.37E-07 | 4.62E-11   |                   |
| 14   | 5  | Surface | Total PAH     | mg/kg | 1.21E-01 | 2.11E-08  | 2.58E-07 | 1.01E-09   |                   |
| 14   | 5  | Surface | Uranium       | mg/kg | 2.62E+02 | 4.58E-05  | 2.15E-04 | 2.96E-08   |                   |
| 14   | 5  | Surface | Neptunium-237 | pCi/g | 1.74E+00 | 5.44E+02  |          | 3.51E-01   | 7.95E+00          |
| 14   | 5  | Surface | Technetium-99 | pCi/g | 1.01E+02 | 3.16E+04  |          | 2.04E+01   | 4.61E+02          |
| 14   | 5  | Surface | Thorium-230   | pCi/g | 1.39E+01 | 4.34E+03  |          | 2.80E+00   | 6.35E+01          |
| 14   | 5  | Surface | Uranium-234   | pCi/g | 5.22E+01 | 1.63E+04  |          | 1.05E+01   | 2.38E+02          |
| 14   | 5  | Surface | Uranium-235   | pCi/g | 3.33E+00 | 1.04E+03  |          | 6.71E-01   | 1.52E+01          |
| 14   | 5  | Surface | Uranium-238   | pCi/g | 9.42E+01 | 2.94E+04  |          | 1.90E+01   | 4.30E+02          |
| 14   | 6  | Surface | Antimony      | mg/kg | 2.70E+00 | 4.72E-07  | 2.22E-06 | 3.04E-10   |                   |
| 14   | 6  | Surface | Cadmium       | mg/kg | 8.40E-01 | 1.47E-07  | 1.38E-08 | 9.47E-11   |                   |
| 14   | 6  | Surface | Chromium      | mg/kg | 4.46E+02 | 7.79E-05  | 3.66E-04 | 5.03E-08   |                   |
| 14   | 6  | Surface | Copper        | mg/kg | 1.22E+02 | 2.14E-05  | 1.00E-04 | 1.38E-08   |                   |
| 14   | 6  | Surface | Mercury       | mg/kg | 3.47E-01 | 6.06E-08  | 2.85E-07 | 1.17E-06   |                   |
| 14   | 6  | Surface | Nickel        | mg/kg | 9.63E+02 | 1.68E-04  | 6.33E-04 | 1.09E-07   |                   |
| 14   | 6  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 8.74E-07  | 1.15E-05 | 9.50E-07   |                   |
| 14   | 6  | Surface | Silver        | mg/kg | 1.19E+01 | 2.08E-06  | 7.80E-06 | 1.34E-09   |                   |
| 14   | 6  | Surface | Uranium       | mg/kg | 5.79E+02 | 1.01E-04  | 4.75E-04 | 6.52E-08   |                   |
| 14   | 6  | Surface | Neptunium-237 | pCi/g | 2.65E+00 | 8.28E+02  |          | 5.34E-01   | 1.21E+01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 6  | Surface | Uranium-234   | pCi/g | 3.41E+01 | 1.07E+04  |          | 6.88E+00   | 1.56E+02          |
| 14   | 6  | Surface | Uranium-235   | pCi/g | 2.27E+00 | 7.09E+02  |          | 4.58E-01   | 1.04E+01          |
| 14   | 6  | Surface | Uranium-238   | pCi/g | 5.08E+01 | 1.59E+04  |          | 1.02E+01   | 2.32E+02          |
| 14   | 7  | Surface | Antimony      | mg/kg | 7.50E-01 | 1.31E-07  | 6.16E-07 | 8.45E-11   |                   |
| 14   | 7  | Surface | Arsenic       | mg/kg | 1.13E+01 | 1.97E-06  | 5.57E-06 | 1.27E-09   |                   |
| 14   | 7  | Surface | Cadmium       | mg/kg | 2.70E+00 | 4.72E-07  | 4.43E-08 | 3.04E-10   |                   |
| 14   | 7  | Surface | Chromium      | mg/kg | 6.46E+01 | 1.13E-05  | 5.30E-05 | 7.28E-09   |                   |
| 14   | 7  | Surface | Mercury       | mg/kg | 7.82E+00 | 1.37E-06  | 6.42E-06 | 2.63E-05   |                   |
| 14   | 7  | Surface | Nickel        | mg/kg | 1.22E+03 | 2.14E-04  | 8.03E-04 | 1.38E-07   |                   |
| 14   | 7  | Surface | PCB, Total    | mg/kg | 7.60E+00 | 1.33E-06  | 1.75E-05 | 1.45E-06   |                   |
| 14   | 7  | Surface | Total PAH     | mg/kg | 6.31E-02 | 1.10E-08  | 1.35E-07 | 5.26E-10   |                   |
| 14   | 7  | Surface | Uranium       | mg/kg | 3.33E+02 | 5.82E-05  | 2.73E-04 | 3.75E-08   |                   |
| 14   | 7  | Surface | Neptunium-237 | pCi/g | 1.49E+00 | 4.66E+02  |          | 3.00E-01   | 6.80E+00          |
| 14   | 7  | Surface | Uranium-234   | pCi/g | 1.28E+01 | 4.00E+03  |          | 2.58E+00   | 5.84E+01          |
| 14   | 7  | Surface | Uranium-235   | pCi/g | 9.60E-01 | 3.00E+02  |          | 1.94E-01   | 4.38E+00          |
| 14   | 7  | Surface | Uranium-238   | pCi/g | 2.13E+01 | 6.66E+03  |          | 4.29E+00   | 9.73E+01          |
| 14   | 8  | Surface | Antimony      | mg/kg | 6.10E-01 | 1.07E-07  | 5.01E-07 | 6.88E-11   |                   |
| 14   | 8  | Surface | Arsenic       | mg/kg | 1.14E+01 | 1.99E-06  | 5.61E-06 | 1.28E-09   |                   |
| 14   | 8  | Surface | Chromium      | mg/kg | 4.60E+01 | 8.04E-06  | 3.78E-05 | 5.19E-09   |                   |
| 14   | 8  | Surface | Mercury       | mg/kg | 7.90E+00 | 1.38E-06  | 6.49E-06 | 2.65E-05   |                   |
| 14   | 8  | Surface | Nickel        | mg/kg | 6.73E+02 | 1.18E-04  | 4.42E-04 | 7.58E-08   |                   |
| 14   | 8  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 8.74E-07  | 1.15E-05 | 9.50E-07   |                   |
| 14   | 8  | Surface | Silver        | mg/kg | 9.63E+00 | 1.68E-06  | 6.33E-06 | 1.09E-09   |                   |
| 14   | 8  | Surface | Total PAH     | mg/kg | 6.28E-02 | 1.10E-08  | 1.34E-07 | 5.23E-10   |                   |
| 14   | 8  | Surface | Uranium       | mg/kg | 3.35E+02 | 5.86E-05  | 2.75E-04 | 3.78E-08   |                   |
| 14   | 8  | Surface | Neptunium-237 | pCi/g | 8.80E-01 | 2.75E+02  |          | 1.77E-01   | 4.02E+00          |
| 14   | 8  | Surface | Uranium-235   | pCi/g | 2.38E-01 | 7.44E+01  |          | 4.80E-02   | 1.09E+00          |
| 14   | 8  | Surface | Uranium-238   | pCi/g | 5.92E+00 | 1.85E+03  |          | 1.19E+00   | 2.70E+01          |
| 14   | 9  | Surface | Antimony      | mg/kg | 2.00E+00 | 3.49E-07  | 1.64E-06 | 2.25E-10   |                   |
| 14   | 9  | Surface | Arsenic       | mg/kg | 1.40E+01 | 2.45E-06  | 6.92E-06 | 1.58E-09   |                   |
| 14   | 9  | Surface | Cadmium       | mg/kg | 9.40E-01 | 1.64E-07  | 1.54E-08 | 1.06E-10   |                   |
| 14   | 9  | Surface | Chromium      | mg/kg | 4.64E+01 | 8.11E-06  | 3.81E-05 | 5.24E-09   |                   |
| 14   | 9  | Surface | Mercury       | mg/kg | 1.13E+00 | 1.97E-07  | 9.28E-07 | 3.80E-06   |                   |
| 14   | 9  | Surface | Nickel        | mg/kg | 9.43E+02 | 1.65E-04  | 6.20E-04 | 1.06E-07   |                   |
| 14   | 9  | Surface | PCB, Total    | mg/kg | 6.84E+00 | 1.20E-06  | 1.57E-05 | 1.30E-06   |                   |
| 14   | 9  | Surface | Total PAH     | mg/kg | 4.87E-01 | 8.52E-08  | 1.04E-06 | 4.06E-09   |                   |
| 14   | 9  | Surface | Uranium       | mg/kg | 1.46E+03 | 2.56E-04  | 1.20E-03 | 1.65E-07   |                   |
| 14   | 9  | Surface | Cesium-137    | pCi/g | 4.53E-01 | 1.42E+02  |          | 9.13E-02   | 2.07E+00          |
| 14   | 9  | Surface | Neptunium-237 | pCi/g | 1.09E+01 | 3.42E+03  |          | 2.20E+00   | 4.99E+01          |
| 14   | 9  | Surface | Technetium-99 | pCi/g | 1.96E+02 | 6.12E+04  |          | 3.95E+01   | 8.95E+02          |
| 14   | 9  | Surface | Uranium-234   | pCi/g | 8.32E+02 | 2.60E+05  |          | 1.68E+02   | 3.80E+03          |
| 14   | 9  | Surface | Uranium-235   | pCi/g | 5.46E+01 | 1.70E+04  |          | 1.10E+01   | 2.49E+02          |
| 14   | 9  | Surface | Uranium-238   | pCi/g | 1.20E+03 | 3.75E+05  |          | 2.42E+02   | 5.48E+03          |
| 518  | 1  | Surface | Carbazole     | mg/kg | 1.17E+01 | 2.05E-06  | 1.92E-05 | 6.13E-07   |                   |
| 518  | 1  | Surface | Cobalt        | mg/kg | 6.80E+00 | 1.19E-06  | 5.59E-06 | 7.67E-10   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 518  | 1  | Surface | Nickel        | mg/kg | 1.29E+01 | 2.25E-06  | 8.45E-06 | 1.45E-09   |                   |
| 518  | 1  | Surface | PCB, Total    | mg/kg | 6.30E-01 | 1.10E-07  | 1.45E-06 | 1.20E-07   |                   |
| 518  | 1  | Surface | Pyrene        | mg/kg | 3.94E+01 | 6.89E-06  | 8.42E-05 | 2.92E-06   |                   |
| 518  | 1  | Surface | Total PAH     | mg/kg | 3.90E+01 | 6.81E-06  | 8.32E-05 | 3.25E-07   |                   |
| 518  | 1  | Surface | Uranium       | mg/kg | 2.17E+02 | 3.79E-05  | 1.78E-04 | 2.45E-08   |                   |
| 518  | 1  | Surface | Uranium-235   | pCi/g | 6.74E-02 | 2.11E+01  |          | 1.36E-02   | 3.08E-01          |
| 518  | 1  | Surface | Uranium-238   | pCi/g | 1.51E+00 | 4.73E+02  |          | 3.05E-01   | 6.91E+00          |
| 520  | 1  | Surface | Chromium      | mg/kg | 3.17E+01 | 5.54E-06  | 2.61E-05 | 3.58E-09   |                   |
| 520  | 1  | Surface | Iron          | mg/kg | 1.56E+04 | 2.72E-03  | 1.28E-02 | 1.76E-06   |                   |
| 520  | 1  | Surface | Mercury       | mg/kg | 1.07E+01 | 1.87E-06  | 8.77E-06 | 3.59E-05   |                   |
| 520  | 1  | Surface | Nickel        | mg/kg | 2.60E+02 | 4.55E-05  | 1.71E-04 | 2.94E-08   |                   |
| 520  | 1  | Surface | Silver        | mg/kg | 1.30E+01 | 2.27E-06  | 8.52E-06 | 1.46E-09   |                   |
| 520  | 1  | Surface | Total PAH     | mg/kg | 3.18E-02 | 5.56E-09  | 6.80E-08 | 2.65E-10   |                   |
| 520  | 1  | Surface | Uranium       | mg/kg | 2.29E+01 | 4.01E-06  | 1.88E-05 | 2.59E-09   |                   |
| 520  | 1  | Surface | Cesium-137    | pCi/g | 9.62E-01 | 3.01E+02  |          | 1.94E-01   | 4.39E+00          |
| 520  | 1  | Surface | Neptunium-237 | pCi/g | 6.56E-01 | 2.05E+02  |          | 1.32E-01   | 3.00E+00          |
| 520  | 1  | Surface | Thorium-230   | pCi/g | 1.13E+01 | 3.54E+03  |          | 2.29E+00   | 5.18E+01          |
| 520  | 1  | Surface | Uranium-235   | pCi/g | 1.26E-01 | 3.94E+01  |          | 2.54E-02   | 5.75E-01          |
| 520  | 1  | Surface | Uranium-238   | pCi/g | 3.93E+00 | 1.23E+03  |          | 7.92E-01   | 1.79E+01          |
| 520  | 2  | Surface | Beryllium     | mg/kg | 5.79E-01 | 1.01E-07  | 6.66E-08 | 6.53E-11   |                   |
| 520  | 2  | Surface | Chromium      | mg/kg | 6.67E+01 | 1.16E-05  | 5.47E-05 | 7.51E-09   |                   |
| 520  | 2  | Surface | Manganese     | mg/kg | 5.89E+02 | 1.03E-04  | 3.87E-04 | 6.64E-08   |                   |
| 520  | 2  | Surface | Mercury       | mg/kg | 1.19E+01 | 2.08E-06  | 9.76E-06 | 3.99E-05   |                   |
| 520  | 2  | Surface | Nickel        | mg/kg | 3.11E+02 | 5.43E-05  | 2.04E-04 | 3.50E-08   |                   |
| 520  | 2  | Surface | Total PAH     | mg/kg | 3.17E-01 | 5.54E-08  | 6.77E-07 | 2.64E-09   |                   |
| 520  | 2  | Surface | Uranium       | mg/kg | 3.96E+01 | 6.91E-06  | 3.25E-05 | 4.46E-09   |                   |
| 520  | 2  | Surface | Neptunium-237 | pCi/g | 7.48E-02 | 2.34E+01  |          | 1.51E-02   | 3.42E-01          |
| 520  | 2  | Surface | Uranium-238   | pCi/g | 1.78E+00 | 5.56E+02  |          | 3.58E-01   | 8.12E+00          |
| 520  | 3  | Surface | Chromium      | mg/kg | 3.97E+01 | 6.93E-06  | 3.26E-05 | 4.47E-09   |                   |
| 520  | 3  | Surface | Copper        | mg/kg | 1.19E+02 | 2.08E-05  | 9.77E-05 | 1.34E-08   |                   |
| 520  | 3  | Surface | Nickel        | mg/kg | 2.65E+02 | 4.63E-05  | 1.74E-04 | 2.99E-08   |                   |
| 520  | 3  | Surface | Silver        | mg/kg | 1.27E+01 | 2.21E-06  | 8.32E-06 | 1.43E-09   |                   |
| 520  | 3  | Surface | Total PAH     | mg/kg | 1.18E-01 | 2.06E-08  | 2.52E-07 | 9.84E-10   |                   |
| 520  | 3  | Surface | Uranium       | mg/kg | 1.92E+01 | 3.36E-06  | 1.58E-05 | 2.17E-09   |                   |
| 520  | 3  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 4.91E+02  |          | 3.17E-01   | 7.17E+00          |
| 520  | 4  | Surface | Chromium      | mg/kg | 3.82E+01 | 6.68E-06  | 3.14E-05 | 4.31E-09   |                   |
| 520  | 4  | Surface | Copper        | mg/kg | 1.11E+02 | 1.93E-05  | 9.08E-05 | 1.25E-08   |                   |
| 520  | 4  | Surface | Mercury       | mg/kg | 9.69E+00 | 1.69E-06  | 7.96E-06 | 3.26E-05   |                   |
| 520  | 4  | Surface | Nickel        | mg/kg | 2.82E+02 | 4.93E-05  | 1.85E-04 | 3.18E-08   |                   |
| 520  | 4  | Surface | Silver        | mg/kg | 1.04E+01 | 1.82E-06  | 6.86E-06 | 1.18E-09   |                   |
| 520  | 4  | Surface | Total PAH     | mg/kg | 5.52E-01 | 9.65E-08  | 1.18E-06 | 4.60E-09   |                   |
| 520  | 4  | Surface | Uranium       | mg/kg | 2.40E+01 | 4.20E-06  | 1.97E-05 | 2.71E-09   |                   |
| 520  | 4  | Surface | Neptunium-237 | pCi/g | 7.40E-01 | 2.31E+02  |          | 1.49E-01   | 3.38E+00          |
| 520  | 4  | Surface | Uranium-235   | pCi/g | 2.42E-01 | 7.56E+01  |          | 4.88E-02   | 1.11E+00          |
| 520  | 4  | Surface | Uranium-238   | pCi/g | 6.26E+00 | 1.96E+03  |          | 1.26E+00   | 2.86E+01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.12. Cancerous CDIs for the Default Industrial Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 520  | 5  | Surface | Antimony      | mg/kg | 9.60E-01 | 1.68E-07  | 7.88E-07 | 1.08E-10   |                   |
| 520  | 5  | Surface | Chromium      | mg/kg | 3.68E+01 | 6.43E-06  | 3.02E-05 | 4.15E-09   |                   |
| 520  | 5  | Surface | Nickel        | mg/kg | 1.47E+02 | 2.57E-05  | 9.65E-05 | 1.66E-08   |                   |
| 520  | 5  | Surface | Total PAH     | mg/kg | 3.87E-01 | 6.77E-08  | 8.27E-07 | 3.23E-09   |                   |
| 520  | 5  | Surface | Neptunium-237 | pCi/g | 1.55E-01 | 4.84E+01  |          | 3.13E-02   | 7.08E-01          |
| 520  | 5  | Surface | Uranium-238   | pCi/g | 1.45E+00 | 4.53E+02  |          | 2.92E-01   | 6.62E+00          |
| 153  | 1  | Surface | PCB, Total    | mg/kg | 5.09E-01 | 8.89E-08  | 1.17E-06 | 9.67E-08   |                   |
| 153  | 1  | Surface | Total PAH     | mg/kg | 8.69E-02 | 1.52E-08  | 1.86E-07 | 7.24E-10   |                   |
| 156  | 1  | Surface | Chromium      | mg/kg | 4.90E+01 | 8.57E-06  | 4.03E-05 | 5.53E-09   |                   |
| 156  | 1  | Surface | Manganese     | mg/kg | 2.83E+03 | 4.95E-04  | 1.86E-03 | 3.19E-07   |                   |
| 156  | 1  | Surface | Mercury       | mg/kg | 9.87E+00 | 1.72E-06  | 8.11E-06 | 3.32E-05   |                   |
| 156  | 1  | Surface | Nickel        | mg/kg | 6.16E+01 | 1.08E-05  | 4.05E-05 | 6.95E-09   |                   |
| 156  | 1  | Surface | PCB, Total    | mg/kg | 3.00E-01 | 5.24E-08  | 6.90E-07 | 5.70E-08   |                   |
| 156  | 1  | Surface | Total PAH     | mg/kg | 8.26E-02 | 1.44E-08  | 1.76E-07 | 6.89E-10   |                   |
| 156  | 1  | Surface | Uranium       | mg/kg | 2.32E+01 | 4.05E-06  | 1.90E-05 | 2.61E-09   |                   |
| 156  | 1  | Surface | Uranium-238   | pCi/g | 2.19E+00 | 6.84E+02  |          | 4.42E-01   | 1.00E+01          |
| 160  | 1  | Surface | Antimony      | mg/kg | 6.80E-01 | 1.19E-07  | 5.58E-07 | 7.67E-11   |                   |
| 160  | 1  | Surface | Total PAH     | mg/kg | 5.29E-02 | 9.24E-09  | 1.13E-07 | 4.41E-10   |                   |
| 163  | 1  | Surface | Chromium      | mg/kg | 4.94E+01 | 8.64E-06  | 4.06E-05 | 5.57E-09   |                   |
| 163  | 1  | Surface | Total PAH     | mg/kg | 1.63E-01 | 2.85E-08  | 3.48E-07 | 1.36E-09   |                   |
| 219  | 1  | Surface | Nickel        | mg/kg | 6.71E+01 | 1.17E-05  | 4.41E-05 | 7.57E-09   |                   |
| 219  | 1  | Surface | Total PAH     | mg/kg | 7.50E-02 | 1.31E-08  | 1.60E-07 | 6.25E-10   |                   |
| 219  | 1  | Surface | Neptunium-237 | pCi/g | 3.31E-01 | 1.03E+02  |          | 6.67E-02   | 1.51E+00          |
| 219  | 1  | Surface | Uranium-235   | pCi/g | 1.92E-01 | 6.00E+01  |          | 3.87E-02   | 8.77E-01          |
| 219  | 1  | Surface | Uranium-238   | pCi/g | 4.40E+00 | 1.38E+03  |          | 8.87E-01   | 2.01E+01          |
| 488  | 1  | Surface | PCB, Total    | mg/kg | 1.03E+01 | 1.80E-06  | 2.37E-05 | 1.96E-06   |                   |
| 488  | 1  | Surface | Total PAH     | mg/kg | 2.50E-01 | 4.36E-08  | 5.33E-07 | 2.08E-09   |                   |
| 488  | 1  | Surface | Uranium       | mg/kg | 1.48E+01 | 2.59E-06  | 1.22E-05 | 1.67E-09   |                   |
| 488  | 1  | Surface | Cesium-137    | pCi/g | 5.20E-01 | 1.63E+02  |          | 1.05E-01   | 2.37E+00          |
| 488  | 1  | Surface | Uranium-235   | pCi/g | 1.49E-01 | 4.66E+01  |          | 3.00E-02   | 6.80E-01          |
| 488  | 1  | Surface | Uranium-238   | pCi/g | 4.54E+00 | 1.42E+03  |          | 9.15E-01   | 2.07E+01          |
| 81   | 1  | Surface | Aluminum      | mg/kg | 9.57E+03 | 1.67E-03  | 7.86E-03 | 1.08E-06   |                   |
| 81   | 1  | Surface | Arsenic       | mg/kg | 1.03E+01 | 1.79E-06  | 5.05E-06 | 1.16E-09   |                   |
| 81   | 1  | Surface | Beryllium     | mg/kg | 7.57E-01 | 1.32E-07  | 8.70E-08 | 8.53E-11   |                   |
| 81   | 1  | Surface | Chromium      | mg/kg | 8.62E+01 | 1.51E-05  | 7.08E-05 | 9.72E-09   |                   |
| 81   | 1  | Surface | Mercury       | mg/kg | 8.33E+00 | 1.46E-06  | 6.84E-06 | 2.80E-05   |                   |
| 81   | 1  | Surface | Nickel        | mg/kg | 7.29E+01 | 1.27E-05  | 4.79E-05 | 8.21E-09   |                   |
| 81   | 1  | Surface | PCB, Total    | mg/kg | 1.60E+02 | 2.79E-05  | 3.67E-04 | 3.04E-05   |                   |
| 81   | 1  | Surface | Silver        | mg/kg | 2.70E+00 | 4.72E-07  | 1.77E-06 | 3.04E-10   |                   |
| 81   | 1  | Surface | Total PAH     | mg/kg | 5.53E-01 | 9.66E-08  | 1.18E-06 | 4.61E-09   |                   |
| 81   | 1  | Surface | Uranium       | mg/kg | 6.50E+03 | 1.14E-03  | 5.34E-03 | 7.33E-07   |                   |
| 81   | 1  | Surface | Uranium-238   | pCi/g | 2.29E+00 | 7.14E+02  |          | 4.61E-01   | 1.04E+01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC                     | Units | EPC      | Ingestion | Dermal   | Inhalation |
|------|----|------------|--------------------------|-------|----------|-----------|----------|------------|
| 1    | 1  | Subsurface | Aluminum                 | mg/kg | 1.05E+04 | 3.66E-02  | 1.79E-02 | 2.46E-06   |
| 1    | 1  | Subsurface | Antimony                 | mg/kg | 2.06E+00 | 7.16E-06  | 3.50E-06 | 4.81E-10   |
| 1    | 1  | Subsurface | Arsenic                  | mg/kg | 6.74E+00 | 2.34E-05  | 6.88E-06 | 1.57E-09   |
| 1    | 1  | Subsurface | Barium                   | mg/kg | 1.46E+02 | 5.09E-04  | 2.49E-04 | 3.42E-08   |
| 1    | 1  | Subsurface | Beryllium                | mg/kg | 3.37E+00 | 1.17E-05  | 8.03E-07 | 7.87E-10   |
| 1    | 1  | Subsurface | Cadmium                  | mg/kg | 1.83E+00 | 6.35E-06  | 6.22E-08 | 4.27E-10   |
| 1    | 1  | Subsurface | Chromium                 | mg/kg | 2.32E+01 | 8.07E-05  | 3.95E-05 | 5.42E-09   |
| 1    | 1  | Subsurface | Cobalt                   | mg/kg | 1.05E+01 | 3.66E-05  | 1.79E-05 | 2.46E-09   |
| 1    | 1  | Subsurface | Manganese                | mg/kg | 1.00E+03 | 3.49E-03  | 1.37E-03 | 2.35E-07   |
| 1    | 1  | Subsurface | Nickel                   | mg/kg | 1.62E+01 | 5.61E-05  | 2.20E-05 | 3.77E-09   |
| 1    | 1  | Subsurface | PCB, Total               | mg/kg | 1.20E-01 | 4.17E-07  | 5.72E-07 | 4.73E-08   |
| 1    | 1  | Subsurface | Thallium                 | mg/kg | 8.92E-01 | 3.10E-06  | 1.52E-06 | 2.08E-10   |
| 1    | 1  | Subsurface | Trichloroethene          | mg/kg | 6.90E-01 | 2.40E-06  | 5.87E-06 | 8.84E-05   |
| 1    | 1  | Subsurface | Vanadium                 | mg/kg | 3.29E+01 | 1.14E-04  | 2.91E-05 | 7.68E-09   |
| 1    | 2  | Subsurface | Aluminum                 | mg/kg | 9.14E+03 | 3.18E-02  | 1.56E-02 | 2.14E-06   |
| 1    | 2  | Subsurface | Arsenic                  | mg/kg | 7.82E+00 | 2.72E-05  | 7.98E-06 | 1.83E-09   |
| 1    | 2  | Subsurface | Barium                   | mg/kg | 1.57E+02 | 5.46E-04  | 2.67E-04 | 3.67E-08   |
| 1    | 2  | Subsurface | Beryllium                | mg/kg | 5.07E+00 | 1.76E-05  | 1.21E-06 | 1.18E-09   |
| 1    | 2  | Subsurface | Cadmium                  | mg/kg | 3.74E+00 | 1.30E-05  | 1.27E-07 | 8.73E-10   |
| 1    | 2  | Subsurface | Chromium                 | mg/kg | 1.26E+02 | 4.37E-04  | 2.14E-04 | 2.94E-08   |
| 1    | 2  | Subsurface | cis-1,2-Dichloroethene   | mg/kg | 2.40E+03 | 8.34E-03  | 2.04E-02 | 2.67E-01   |
| 1    | 2  | Subsurface | Copper                   | mg/kg | 1.13E+02 | 3.91E-04  | 1.92E-04 | 2.63E-08   |
| 1    | 2  | Subsurface | Manganese                | mg/kg | 7.28E+02 | 2.53E-03  | 9.90E-04 | 1.70E-07   |
| 1    | 2  | Subsurface | Mercury                  | mg/kg | 7.06E+00 | 2.45E-05  | 1.20E-05 | 4.92E-05   |
| 1    | 2  | Subsurface | Nickel                   | mg/kg | 4.96E+01 | 1.72E-04  | 6.75E-05 | 1.16E-08   |
| 1    | 2  | Subsurface | PCB, Total               | mg/kg | 3.21E+01 | 1.12E-04  | 1.53E-04 | 1.26E-05   |
| 1    | 2  | Subsurface | Silver                   | mg/kg | 7.39E+01 | 2.57E-04  | 1.01E-04 | 1.73E-08   |
| 1    | 2  | Subsurface | Thallium                 | mg/kg | 3.70E-01 | 1.29E-06  | 6.30E-07 | 8.64E-11   |
| 1    | 2  | Subsurface | trans-1,2-Dichloroethene | mg/kg | 8.93E+00 | 3.10E-05  | 7.60E-05 | 9.87E-04   |
| 1    | 2  | Subsurface | Trichloroethene          | mg/kg | 6.48E+01 | 2.25E-04  | 5.51E-04 | 8.30E-03   |
| 1    | 2  | Subsurface | Vanadium                 | mg/kg | 3.22E+01 | 1.12E-04  | 2.85E-05 | 7.51E-09   |
| 1    | 2  | Subsurface | Vinyl chloride           | mg/kg | 4.47E+00 | 1.55E-05  | 3.80E-05 | 1.10E-03   |
| 1    | 3  | Subsurface | Antimony                 | mg/kg | 3.80E-01 | 1.32E-06  | 6.47E-07 | 8.88E-11   |
| 1    | 3  | Subsurface | Arsenic                  | mg/kg | 6.24E+00 | 2.17E-05  | 6.37E-06 | 1.46E-09   |
| 1    | 3  | Subsurface | Barium                   | mg/kg | 1.34E+02 | 4.64E-04  | 2.27E-04 | 3.12E-08   |
| 1    | 3  | Subsurface | Cadmium                  | mg/kg | 3.32E+00 | 1.15E-05  | 1.13E-07 | 7.75E-10   |
| 1    | 3  | Subsurface | Manganese                | mg/kg | 5.13E+02 | 1.78E-03  | 6.98E-04 | 1.20E-07   |
| 1    | 3  | Subsurface | Nickel                   | mg/kg | 2.16E+01 | 7.52E-05  | 2.94E-05 | 5.05E-09   |
| 1    | 3  | Subsurface | PCB, Total               | mg/kg | 2.08E-01 | 7.23E-07  | 9.91E-07 | 8.19E-08   |
| 1    | 4  | Subsurface | Beryllium                | mg/kg | 7.52E-01 | 2.61E-06  | 1.79E-07 | 1.76E-10   |
| 1    | 4  | Subsurface | Cadmium                  | mg/kg | 2.09E+00 | 7.25E-06  | 7.10E-08 | 4.87E-10   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b>     | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-----------------|--------------|------------|------------------|---------------|-------------------|
| 1           | 4         | Subsurface   | Chromium        | mg/kg        | 7.09E+01   | 2.47E-04         | 1.21E-04      | 1.66E-08          |
| 1           | 4         | Subsurface   | Nickel          | mg/kg        | 2.81E+01   | 9.76E-05         | 3.82E-05      | 6.56E-09          |
| 1           | 4         | Subsurface   | PCB, Total      | mg/kg        | 9.24E-02   | 3.21E-07         | 4.40E-07      | 3.64E-08          |
| 1           | 4         | Subsurface   | Trichloroethene | mg/kg        | 1.90E-01   | 6.60E-07         | 1.62E-06      | 2.43E-05          |
| 1           | 4         | Subsurface   | Vanadium        | mg/kg        | 2.87E+01   | 9.98E-05         | 2.54E-05      | 6.71E-09          |
| 1           | 5         | Subsurface   | Aluminum        | mg/kg        | 1.20E+04   | 4.17E-02         | 2.04E-02      | 2.80E-06          |
| 1           | 5         | Subsurface   | Arsenic         | mg/kg        | 1.67E+01   | 5.80E-05         | 1.70E-05      | 3.90E-09          |
| 1           | 5         | Subsurface   | Barium          | mg/kg        | 2.15E+02   | 7.47E-04         | 3.66E-04      | 5.02E-08          |
| 1           | 5         | Subsurface   | Beryllium       | mg/kg        | 8.30E+00   | 2.88E-05         | 1.98E-06      | 1.94E-09          |
| 1           | 5         | Subsurface   | Cadmium         | mg/kg        | 2.97E+00   | 1.03E-05         | 1.01E-07      | 6.94E-10          |
| 1           | 5         | Subsurface   | Cobalt          | mg/kg        | 1.43E+01   | 4.97E-05         | 2.43E-05      | 3.34E-09          |
| 1           | 5         | Subsurface   | Manganese       | mg/kg        | 2.16E+03   | 7.51E-03         | 2.94E-03      | 5.05E-07          |
| 1           | 5         | Subsurface   | Nickel          | mg/kg        | 4.07E+01   | 1.41E-04         | 5.54E-05      | 9.51E-09          |
| 1           | 5         | Subsurface   | PCB, Total      | mg/kg        | 2.70E-01   | 9.38E-07         | 1.29E-06      | 1.06E-07          |
| 1           | 5         | Subsurface   | Total PAH       | mg/kg        | 9.83E-02   | 3.42E-07         | 4.35E-07      | 1.70E-09          |
| 99          | 1         | Subsurface   | Aluminum        | mg/kg        | 1.16E+04   | 4.05E-02         | 1.98E-02      | 2.72E-06          |
| 99          | 1         | Subsurface   | Arsenic         | mg/kg        | 9.94E+00   | 3.45E-05         | 1.01E-05      | 2.32E-09          |
| 99          | 1         | Subsurface   | Barium          | mg/kg        | 1.35E+02   | 4.69E-04         | 2.30E-04      | 3.15E-08          |
| 99          | 1         | Subsurface   | Beryllium       | mg/kg        | 7.22E-01   | 2.51E-06         | 1.72E-07      | 1.69E-10          |
| 99          | 1         | Subsurface   | Chromium        | mg/kg        | 6.29E+01   | 2.18E-04         | 1.07E-04      | 1.47E-08          |
| 99          | 1         | Subsurface   | Manganese       | mg/kg        | 6.28E+02   | 2.18E-03         | 8.55E-04      | 1.47E-07          |
| 99          | 1         | Subsurface   | Mercury         | mg/kg        | 9.53E+00   | 3.31E-05         | 1.62E-05      | 6.64E-05          |
| 99          | 1         | Subsurface   | Nickel          | mg/kg        | 8.52E+01   | 2.96E-04         | 1.16E-04      | 1.99E-08          |
| 99          | 1         | Subsurface   | Silver          | mg/kg        | 1.03E+01   | 3.58E-05         | 1.40E-05      | 2.41E-09          |
| 99          | 1         | Subsurface   | Uranium         | mg/kg        | 1.61E+01   | 5.59E-05         | 2.74E-05      | 3.76E-09          |
| 99          | 2         | Subsurface   | Chromium        | mg/kg        | 4.57E+01   | 1.59E-04         | 7.78E-05      | 1.07E-08          |
| 194         | 1         | Subsurface   | Antimony        | mg/kg        | 8.62E-01   | 3.00E-06         | 1.47E-06      | 2.01E-10          |
| 194         | 1         | Subsurface   | Arsenic         | mg/kg        | 1.02E+01   | 3.54E-05         | 1.04E-05      | 2.38E-09          |
| 194         | 1         | Subsurface   | Beryllium       | mg/kg        | 5.96E-01   | 2.07E-06         | 1.42E-07      | 1.39E-10          |
| 194         | 1         | Subsurface   | Chromium        | mg/kg        | 5.11E+01   | 1.77E-04         | 8.69E-05      | 1.19E-08          |
| 194         | 1         | Subsurface   | Manganese       | mg/kg        | 5.82E+02   | 2.02E-03         | 7.92E-04      | 1.36E-07          |
| 194         | 1         | Subsurface   | Mercury         | mg/kg        | 6.71E+00   | 2.33E-05         | 1.14E-05      | 4.67E-05          |
| 194         | 1         | Subsurface   | Nickel          | mg/kg        | 6.12E+01   | 2.13E-04         | 8.33E-05      | 1.43E-08          |
| 194         | 1         | Subsurface   | Silver          | mg/kg        | 1.09E+01   | 3.80E-05         | 1.49E-05      | 2.55E-09          |
| 194         | 1         | Subsurface   | Thallium        | mg/kg        | 3.84E-01   | 1.33E-06         | 6.53E-07      | 8.97E-11          |
| 194         | 1         | Subsurface   | Vanadium        | mg/kg        | 3.74E+01   | 1.30E-04         | 3.31E-05      | 8.74E-09          |
| 194         | 2         | Subsurface   | Antimony        | mg/kg        | 6.59E-01   | 2.29E-06         | 1.12E-06      | 1.54E-10          |
| 194         | 2         | Subsurface   | Arsenic         | mg/kg        | 1.02E+01   | 3.54E-05         | 1.04E-05      | 2.38E-09          |
| 194         | 2         | Subsurface   | Beryllium       | mg/kg        | 6.96E-01   | 2.42E-06         | 1.66E-07      | 1.63E-10          |
| 194         | 2         | Subsurface   | Chromium        | mg/kg        | 5.96E+01   | 2.07E-04         | 1.01E-04      | 1.39E-08          |
| 194         | 2         | Subsurface   | Manganese       | mg/kg        | 7.01E+02   | 2.44E-03         | 9.54E-04      | 1.64E-07          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 2         | Subsurface   | Mercury     | mg/kg        | 6.90E+00   | 2.40E-05         | 1.17E-05      | 4.80E-05          |
| 194         | 2         | Subsurface   | Silver      | mg/kg        | 1.39E+01   | 4.83E-05         | 1.89E-05      | 3.25E-09          |
| 194         | 2         | Subsurface   | Uranium     | mg/kg        | 2.68E+01   | 9.32E-05         | 4.56E-05      | 6.26E-09          |
| 194         | 2         | Subsurface   | Vanadium    | mg/kg        | 3.55E+01   | 1.23E-04         | 3.14E-05      | 8.28E-09          |
| 194         | 3         | Subsurface   | Antimony    | mg/kg        | 5.92E-01   | 2.06E-06         | 1.01E-06      | 1.38E-10          |
| 194         | 3         | Subsurface   | Arsenic     | mg/kg        | 1.44E+01   | 5.02E-05         | 1.47E-05      | 3.37E-09          |
| 194         | 3         | Subsurface   | Chromium    | mg/kg        | 4.98E+01   | 1.73E-04         | 8.47E-05      | 1.16E-08          |
| 194         | 3         | Subsurface   | Nickel      | mg/kg        | 6.32E+01   | 2.20E-04         | 8.60E-05      | 1.48E-08          |
| 194         | 3         | Subsurface   | Total PAH   | mg/kg        | 3.39E-02   | 1.18E-07         | 1.50E-07      | 5.85E-10          |
| 194         | 4         | Subsurface   | Aluminum    | mg/kg        | 8.50E+03   | 2.96E-02         | 1.45E-02      | 1.99E-06          |
| 194         | 4         | Subsurface   | Arsenic     | mg/kg        | 1.02E+01   | 3.56E-05         | 1.04E-05      | 2.39E-09          |
| 194         | 4         | Subsurface   | Beryllium   | mg/kg        | 5.87E-01   | 2.04E-06         | 1.40E-07      | 1.37E-10          |
| 194         | 4         | Subsurface   | Chromium    | mg/kg        | 5.59E+01   | 1.94E-04         | 9.51E-05      | 1.31E-08          |
| 194         | 4         | Subsurface   | Iron        | mg/kg        | 1.83E+04   | 6.35E-02         | 3.11E-02      | 4.27E-06          |
| 194         | 4         | Subsurface   | Manganese   | mg/kg        | 4.76E+02   | 1.65E-03         | 6.48E-04      | 1.11E-07          |
| 194         | 4         | Subsurface   | Mercury     | mg/kg        | 8.92E+00   | 3.10E-05         | 1.52E-05      | 6.21E-05          |
| 194         | 4         | Subsurface   | Nickel      | mg/kg        | 8.15E+01   | 2.83E-04         | 1.11E-04      | 1.90E-08          |
| 194         | 4         | Subsurface   | Silver      | mg/kg        | 1.23E+01   | 4.27E-05         | 1.67E-05      | 2.87E-09          |
| 194         | 4         | Subsurface   | Total PAH   | mg/kg        | 2.85E-02   | 9.91E-08         | 1.26E-07      | 4.92E-10          |
| 194         | 4         | Subsurface   | Vanadium    | mg/kg        | 3.07E+01   | 1.07E-04         | 2.72E-05      | 7.17E-09          |
| 194         | 5         | Subsurface   | Aluminum    | mg/kg        | 9.38E+03   | 3.26E-02         | 1.60E-02      | 2.19E-06          |
| 194         | 5         | Subsurface   | Arsenic     | mg/kg        | 9.71E+00   | 3.38E-05         | 9.91E-06      | 2.27E-09          |
| 194         | 5         | Subsurface   | Beryllium   | mg/kg        | 6.26E-01   | 2.18E-06         | 1.49E-07      | 1.46E-10          |
| 194         | 5         | Subsurface   | Chromium    | mg/kg        | 5.54E+01   | 1.93E-04         | 9.43E-05      | 1.29E-08          |
| 194         | 5         | Subsurface   | Manganese   | mg/kg        | 1.39E+03   | 4.81E-03         | 1.89E-03      | 3.23E-07          |
| 194         | 5         | Subsurface   | Mercury     | mg/kg        | 8.69E+00   | 3.02E-05         | 1.48E-05      | 6.05E-05          |
| 194         | 5         | Subsurface   | Nickel      | mg/kg        | 7.56E+01   | 2.63E-04         | 1.03E-04      | 1.77E-08          |
| 194         | 5         | Subsurface   | Silver      | mg/kg        | 1.29E+01   | 4.49E-05         | 1.76E-05      | 3.02E-09          |
| 194         | 5         | Subsurface   | Total PAH   | mg/kg        | 4.50E-01   | 1.56E-06         | 1.99E-06      | 7.77E-09          |
| 194         | 5         | Subsurface   | Vanadium    | mg/kg        | 3.19E+01   | 1.11E-04         | 2.82E-05      | 7.45E-09          |
| 194         | 6         | Subsurface   | Manganese   | mg/kg        | 1.37E+03   | 4.77E-03         | 1.87E-03      | 3.20E-07          |
| 194         | 6         | Subsurface   | Nickel      | mg/kg        | 6.98E+01   | 2.43E-04         | 9.51E-05      | 1.63E-08          |
| 194         | 6         | Subsurface   | Silver      | mg/kg        | 9.89E+00   | 3.44E-05         | 1.35E-05      | 2.31E-09          |
| 194         | 7         | Subsurface   | Arsenic     | mg/kg        | 1.02E+01   | 3.55E-05         | 1.04E-05      | 2.38E-09          |
| 194         | 7         | Subsurface   | Chromium    | mg/kg        | 5.32E+01   | 1.85E-04         | 9.05E-05      | 1.24E-08          |
| 194         | 7         | Subsurface   | Manganese   | mg/kg        | 7.86E+02   | 2.73E-03         | 1.07E-03      | 1.83E-07          |
| 194         | 7         | Subsurface   | Nickel      | mg/kg        | 7.71E+01   | 2.68E-04         | 1.05E-04      | 1.80E-08          |
| 194         | 7         | Subsurface   | Silver      | mg/kg        | 1.25E+01   | 4.34E-05         | 1.70E-05      | 2.92E-09          |
| 194         | 8         | Subsurface   | Antimony    | mg/kg        | 5.58E-01   | 1.94E-06         | 9.49E-07      | 1.30E-10          |
| 194         | 8         | Subsurface   | Arsenic     | mg/kg        | 1.09E+01   | 3.78E-05         | 1.11E-05      | 2.54E-09          |
| 194         | 8         | Subsurface   | Chromium    | mg/kg        | 6.09E+01   | 2.12E-04         | 1.04E-04      | 1.42E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 8         | Subsurface   | Cobalt      | mg/kg        | 1.33E+01   | 4.62E-05         | 2.26E-05      | 3.10E-09          |
| 194         | 8         | Subsurface   | Manganese   | mg/kg        | 1.33E+03   | 4.63E-03         | 1.81E-03      | 3.11E-07          |
| 194         | 8         | Subsurface   | Nickel      | mg/kg        | 6.01E+01   | 2.09E-04         | 8.18E-05      | 1.40E-08          |
| 194         | 8         | Subsurface   | Total PAH   | mg/kg        | 3.74E-01   | 1.30E-06         | 1.65E-06      | 6.46E-09          |
| 194         | 9         | Subsurface   | Arsenic     | mg/kg        | 9.77E+00   | 3.40E-05         | 9.98E-06      | 2.28E-09          |
| 194         | 9         | Subsurface   | Chromium    | mg/kg        | 4.48E+01   | 1.56E-04         | 7.62E-05      | 1.05E-08          |
| 194         | 9         | Subsurface   | Manganese   | mg/kg        | 5.54E+02   | 1.93E-03         | 7.54E-04      | 1.29E-07          |
| 194         | 9         | Subsurface   | Nickel      | mg/kg        | 5.98E+01   | 2.08E-04         | 8.14E-05      | 1.40E-08          |
| 194         | 9         | Subsurface   | Silver      | mg/kg        | 1.07E+01   | 3.73E-05         | 1.46E-05      | 2.51E-09          |
| 194         | 10        | Subsurface   | Arsenic     | mg/kg        | 1.10E+01   | 3.83E-05         | 1.13E-05      | 2.57E-09          |
| 194         | 10        | Subsurface   | Chromium    | mg/kg        | 5.00E+01   | 1.74E-04         | 8.50E-05      | 1.17E-08          |
| 194         | 10        | Subsurface   | Mercury     | mg/kg        | 8.07E+00   | 2.80E-05         | 1.37E-05      | 5.62E-05          |
| 194         | 10        | Subsurface   | Nickel      | mg/kg        | 7.60E+01   | 2.64E-04         | 1.03E-04      | 1.77E-08          |
| 194         | 10        | Subsurface   | Thallium    | mg/kg        | 4.50E-01   | 1.56E-06         | 7.66E-07      | 1.05E-10          |
| 194         | 10        | Subsurface   | Total PAH   | mg/kg        | 2.57E-01   | 8.94E-07         | 1.14E-06      | 4.44E-09          |
| 194         | 11        | Subsurface   | Arsenic     | mg/kg        | 1.08E+01   | 3.74E-05         | 1.10E-05      | 2.51E-09          |
| 194         | 11        | Subsurface   | Chromium    | mg/kg        | 5.66E+01   | 1.97E-04         | 9.62E-05      | 1.32E-08          |
| 194         | 11        | Subsurface   | Mercury     | mg/kg        | 8.09E+00   | 2.81E-05         | 1.38E-05      | 5.63E-05          |
| 194         | 11        | Subsurface   | Nickel      | mg/kg        | 1.01E+02   | 3.50E-04         | 1.37E-04      | 2.35E-08          |
| 194         | 11        | Subsurface   | PCB, Total  | mg/kg        | 8.40E-02   | 2.92E-07         | 4.00E-07      | 3.31E-08          |
| 194         | 11        | Subsurface   | Silver      | mg/kg        | 1.33E+01   | 4.62E-05         | 1.81E-05      | 3.10E-09          |
| 194         | 11        | Subsurface   | Thallium    | mg/kg        | 3.70E-01   | 1.29E-06         | 6.30E-07      | 8.64E-11          |
| 194         | 11        | Subsurface   | Total PAH   | mg/kg        | 7.95E-02   | 2.76E-07         | 3.52E-07      | 1.37E-09          |
| 194         | 12        | Subsurface   | Arsenic     | mg/kg        | 9.18E+00   | 3.19E-05         | 9.37E-06      | 2.14E-09          |
| 194         | 12        | Subsurface   | Chromium    | mg/kg        | 6.34E+01   | 2.20E-04         | 1.08E-04      | 1.48E-08          |
| 194         | 12        | Subsurface   | Manganese   | mg/kg        | 7.31E+02   | 2.54E-03         | 9.94E-04      | 1.71E-07          |
| 194         | 12        | Subsurface   | Nickel      | mg/kg        | 7.86E+01   | 2.73E-04         | 1.07E-04      | 1.84E-08          |
| 194         | 12        | Subsurface   | Silver      | mg/kg        | 1.54E+01   | 5.33E-05         | 2.09E-05      | 3.59E-09          |
| 194         | 12        | Subsurface   | Total PAH   | mg/kg        | 7.07E-01   | 2.46E-06         | 3.13E-06      | 1.22E-08          |
| 194         | 13        | Subsurface   | Arsenic     | mg/kg        | 9.90E+00   | 3.44E-05         | 1.01E-05      | 2.31E-09          |
| 194         | 13        | Subsurface   | Chromium    | mg/kg        | 6.25E+01   | 2.17E-04         | 1.06E-04      | 1.46E-08          |
| 194         | 13        | Subsurface   | Manganese   | mg/kg        | 6.05E+02   | 2.10E-03         | 8.24E-04      | 1.41E-07          |
| 194         | 13        | Subsurface   | Nickel      | mg/kg        | 6.80E+01   | 2.36E-04         | 9.26E-05      | 1.59E-08          |
| 194         | 13        | Subsurface   | Total PAH   | mg/kg        | 6.73E-02   | 2.34E-07         | 2.98E-07      | 1.16E-09          |
| 194         | 14        | Subsurface   | Aluminum    | mg/kg        | 1.26E+04   | 4.39E-02         | 2.15E-02      | 2.95E-06          |
| 194         | 14        | Subsurface   | Arsenic     | mg/kg        | 1.09E+01   | 3.77E-05         | 1.11E-05      | 2.53E-09          |
| 194         | 14        | Subsurface   | Chromium    | mg/kg        | 6.09E+01   | 2.12E-04         | 1.04E-04      | 1.42E-08          |
| 194         | 14        | Subsurface   | Manganese   | mg/kg        | 7.02E+02   | 2.44E-03         | 9.55E-04      | 1.64E-07          |
| 194         | 14        | Subsurface   | Mercury     | mg/kg        | 8.94E+00   | 3.11E-05         | 1.52E-05      | 6.22E-05          |
| 194         | 14        | Subsurface   | Nickel      | mg/kg        | 7.09E+01   | 2.46E-04         | 9.64E-05      | 1.65E-08          |
| 194         | 14        | Subsurface   | Vanadium    | mg/kg        | 3.51E+01   | 1.22E-04         | 3.11E-05      | 8.21E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 15        | Subsurface   | Arsenic     | mg/kg        | 8.95E+00   | 3.11E-05         | 9.14E-06      | 2.09E-09          |
| 194         | 15        | Subsurface   | Chromium    | mg/kg        | 6.06E+01   | 2.11E-04         | 1.03E-04      | 1.41E-08          |
| 194         | 15        | Subsurface   | Manganese   | mg/kg        | 6.10E+02   | 2.12E-03         | 8.30E-04      | 1.42E-07          |
| 194         | 15        | Subsurface   | Nickel      | mg/kg        | 7.98E+01   | 2.77E-04         | 1.09E-04      | 1.86E-08          |
| 194         | 15        | Subsurface   | Silver      | mg/kg        | 1.17E+01   | 4.06E-05         | 1.59E-05      | 2.73E-09          |
| 194         | 16        | Subsurface   | Antimony    | mg/kg        | 5.08E-01   | 1.77E-06         | 8.64E-07      | 1.19E-10          |
| 194         | 16        | Subsurface   | Arsenic     | mg/kg        | 1.09E+01   | 3.80E-05         | 1.12E-05      | 2.55E-09          |
| 194         | 16        | Subsurface   | Beryllium   | mg/kg        | 6.46E-01   | 2.25E-06         | 1.54E-07      | 1.51E-10          |
| 194         | 16        | Subsurface   | Chromium    | mg/kg        | 5.32E+01   | 1.85E-04         | 9.06E-05      | 1.24E-08          |
| 194         | 16        | Subsurface   | Manganese   | mg/kg        | 1.72E+03   | 5.98E-03         | 2.34E-03      | 4.02E-07          |
| 194         | 16        | Subsurface   | Nickel      | mg/kg        | 8.59E+01   | 2.99E-04         | 1.17E-04      | 2.01E-08          |
| 194         | 16        | Subsurface   | Silver      | mg/kg        | 1.23E+01   | 4.28E-05         | 1.68E-05      | 2.88E-09          |
| 194         | 16        | Subsurface   | Thallium    | mg/kg        | 3.81E-01   | 1.32E-06         | 6.48E-07      | 8.90E-11          |
| 194         | 16        | Subsurface   | Vanadium    | mg/kg        | 3.24E+01   | 1.13E-04         | 2.87E-05      | 7.57E-09          |
| 194         | 17        | Subsurface   | Arsenic     | mg/kg        | 1.12E+01   | 3.88E-05         | 1.14E-05      | 2.60E-09          |
| 194         | 17        | Subsurface   | Cadmium     | mg/kg        | 8.52E-01   | 2.96E-06         | 2.90E-08      | 1.99E-10          |
| 194         | 17        | Subsurface   | Chromium    | mg/kg        | 5.45E+01   | 1.90E-04         | 9.28E-05      | 1.27E-08          |
| 194         | 17        | Subsurface   | Nickel      | mg/kg        | 6.94E+01   | 2.41E-04         | 9.44E-05      | 1.62E-08          |
| 194         | 17        | Subsurface   | Total PAH   | mg/kg        | 1.04E-01   | 3.61E-07         | 4.60E-07      | 1.80E-09          |
| 194         | 18        | Subsurface   | Aluminum    | mg/kg        | 1.67E+04   | 5.80E-02         | 2.84E-02      | 3.90E-06          |
| 194         | 18        | Subsurface   | Antimony    | mg/kg        | 5.94E-01   | 2.06E-06         | 1.01E-06      | 1.39E-10          |
| 194         | 18        | Subsurface   | Arsenic     | mg/kg        | 1.19E+01   | 4.13E-05         | 1.21E-05      | 2.77E-09          |
| 194         | 18        | Subsurface   | Beryllium   | mg/kg        | 7.21E-01   | 2.51E-06         | 1.72E-07      | 1.68E-10          |
| 194         | 18        | Subsurface   | Chromium    | mg/kg        | 6.85E+01   | 2.38E-04         | 1.17E-04      | 1.60E-08          |
| 194         | 18        | Subsurface   | Iron        | mg/kg        | 2.10E+04   | 7.31E-02         | 3.58E-02      | 4.91E-06          |
| 194         | 18        | Subsurface   | Manganese   | mg/kg        | 7.72E+02   | 2.68E-03         | 1.05E-03      | 1.80E-07          |
| 194         | 18        | Subsurface   | Nickel      | mg/kg        | 9.80E+01   | 3.40E-04         | 1.33E-04      | 2.29E-08          |
| 194         | 18        | Subsurface   | Thallium    | mg/kg        | 3.04E-01   | 1.06E-06         | 5.17E-07      | 7.10E-11          |
| 194         | 18        | Subsurface   | Vanadium    | mg/kg        | 3.90E+01   | 1.36E-04         | 3.45E-05      | 9.12E-09          |
| 194         | 19        | Subsurface   | Arsenic     | mg/kg        | 9.96E+00   | 3.46E-05         | 1.02E-05      | 2.33E-09          |
| 194         | 19        | Subsurface   | Chromium    | mg/kg        | 4.84E+01   | 1.68E-04         | 8.23E-05      | 1.13E-08          |
| 194         | 19        | Subsurface   | Nickel      | mg/kg        | 6.83E+01   | 2.37E-04         | 9.29E-05      | 1.59E-08          |
| 194         | 19        | Subsurface   | Silver      | mg/kg        | 9.44E+00   | 3.28E-05         | 1.29E-05      | 2.20E-09          |
| 194         | 20        | Subsurface   | Arsenic     | mg/kg        | 1.14E+01   | 3.98E-05         | 1.17E-05      | 2.67E-09          |
| 194         | 20        | Subsurface   | Barium      | mg/kg        | 2.35E+02   | 8.18E-04         | 4.01E-04      | 5.50E-08          |
| 194         | 20        | Subsurface   | Beryllium   | mg/kg        | 8.66E-01   | 3.01E-06         | 2.06E-07      | 2.02E-10          |
| 194         | 20        | Subsurface   | Chromium    | mg/kg        | 7.11E+01   | 2.47E-04         | 1.21E-04      | 1.66E-08          |
| 194         | 20        | Subsurface   | Cobalt      | mg/kg        | 1.48E+01   | 5.15E-05         | 2.52E-05      | 3.46E-09          |
| 194         | 20        | Subsurface   | Manganese   | mg/kg        | 2.33E+03   | 8.09E-03         | 3.17E-03      | 5.44E-07          |
| 194         | 20        | Subsurface   | Mercury     | mg/kg        | 7.28E+00   | 2.53E-05         | 1.24E-05      | 5.07E-05          |
| 194         | 20        | Subsurface   | Nickel      | mg/kg        | 6.57E+01   | 2.28E-04         | 8.94E-05      | 1.53E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 20        | Subsurface   | Silver      | mg/kg        | 1.08E+01   | 3.74E-05         | 1.46E-05      | 2.51E-09          |
| 194         | 20        | Subsurface   | Total PAH   | mg/kg        | 2.08E-02   | 7.23E-08         | 9.20E-08      | 3.59E-10          |
| 194         | 20        | Subsurface   | Vanadium    | mg/kg        | 3.29E+01   | 1.14E-04         | 2.91E-05      | 7.68E-09          |
| 194         | 21        | Subsurface   | Antimony    | mg/kg        | 9.30E-01   | 3.23E-06         | 1.58E-06      | 2.17E-10          |
| 194         | 21        | Subsurface   | Arsenic     | mg/kg        | 3.52E+01   | 1.22E-04         | 3.59E-05      | 8.22E-09          |
| 194         | 21        | Subsurface   | Barium      | mg/kg        | 2.96E+03   | 1.03E-02         | 5.04E-03      | 6.91E-07          |
| 194         | 21        | Subsurface   | Beryllium   | mg/kg        | 1.80E+00   | 6.26E-06         | 4.29E-07      | 4.20E-10          |
| 194         | 21        | Subsurface   | Chromium    | mg/kg        | 5.51E+01   | 1.91E-04         | 9.37E-05      | 1.29E-08          |
| 194         | 21        | Subsurface   | Cobalt      | mg/kg        | 8.31E+01   | 2.89E-04         | 1.41E-04      | 1.94E-08          |
| 194         | 21        | Subsurface   | Iron        | mg/kg        | 4.73E+04   | 1.64E-01         | 8.05E-02      | 1.10E-05          |
| 194         | 21        | Subsurface   | Manganese   | mg/kg        | 3.11E+04   | 1.08E-01         | 4.23E-02      | 7.26E-06          |
| 194         | 21        | Subsurface   | Mercury     | mg/kg        | 6.62E+00   | 2.30E-05         | 1.13E-05      | 4.61E-05          |
| 194         | 21        | Subsurface   | Nickel      | mg/kg        | 7.01E+01   | 2.44E-04         | 9.55E-05      | 1.64E-08          |
| 194         | 21        | Subsurface   | Thallium    | mg/kg        | 1.40E+00   | 4.87E-06         | 2.38E-06      | 3.27E-10          |
| 194         | 21        | Subsurface   | Vanadium    | mg/kg        | 8.63E+01   | 3.00E-04         | 7.64E-05      | 2.02E-08          |
| 194         | 22        | Subsurface   | Aluminum    | mg/kg        | 1.13E+04   | 3.93E-02         | 1.92E-02      | 2.64E-06          |
| 194         | 22        | Subsurface   | Antimony    | mg/kg        | 5.29E-01   | 1.84E-06         | 9.00E-07      | 1.24E-10          |
| 194         | 22        | Subsurface   | Arsenic     | mg/kg        | 1.15E+01   | 4.00E-05         | 1.17E-05      | 2.69E-09          |
| 194         | 22        | Subsurface   | Chromium    | mg/kg        | 4.75E+01   | 1.65E-04         | 8.09E-05      | 1.11E-08          |
| 194         | 22        | Subsurface   | Cobalt      | mg/kg        | 1.08E+01   | 3.74E-05         | 1.83E-05      | 2.52E-09          |
| 194         | 22        | Subsurface   | Manganese   | mg/kg        | 1.06E+03   | 3.68E-03         | 1.44E-03      | 2.47E-07          |
| 194         | 22        | Subsurface   | Nickel      | mg/kg        | 7.08E+01   | 2.46E-04         | 9.63E-05      | 1.65E-08          |
| 194         | 22        | Subsurface   | PCB, Total  | mg/kg        | 1.04E+01   | 3.61E-05         | 4.95E-05      | 4.10E-06          |
| 194         | 22        | Subsurface   | Silver      | mg/kg        | 1.14E+01   | 3.94E-05         | 1.55E-05      | 2.65E-09          |
| 194         | 23        | Subsurface   | Arsenic     | mg/kg        | 1.12E+01   | 3.90E-05         | 1.15E-05      | 2.62E-09          |
| 194         | 23        | Subsurface   | Cadmium     | mg/kg        | 6.58E+00   | 2.29E-05         | 2.24E-07      | 1.54E-09          |
| 194         | 23        | Subsurface   | Chromium    | mg/kg        | 5.90E+01   | 2.05E-04         | 1.00E-04      | 1.38E-08          |
| 194         | 23        | Subsurface   | Iron        | mg/kg        | 1.94E+04   | 6.73E-02         | 3.30E-02      | 4.52E-06          |
| 194         | 23        | Subsurface   | Manganese   | mg/kg        | 7.24E+02   | 2.52E-03         | 9.86E-04      | 1.69E-07          |
| 194         | 23        | Subsurface   | Mercury     | mg/kg        | 7.75E+00   | 2.69E-05         | 1.32E-05      | 5.40E-05          |
| 194         | 23        | Subsurface   | Nickel      | mg/kg        | 7.33E+01   | 2.55E-04         | 9.98E-05      | 1.71E-08          |
| 194         | 23        | Subsurface   | Silver      | mg/kg        | 1.04E+01   | 3.60E-05         | 1.41E-05      | 2.42E-09          |
| 194         | 24        | Subsurface   | Arsenic     | mg/kg        | 1.19E+01   | 4.14E-05         | 1.22E-05      | 2.78E-09          |
| 194         | 24        | Subsurface   | Beryllium   | mg/kg        | 6.50E-01   | 2.26E-06         | 1.55E-07      | 1.52E-10          |
| 194         | 24        | Subsurface   | Chromium    | mg/kg        | 4.67E+01   | 1.62E-04         | 7.95E-05      | 1.09E-08          |
| 194         | 24        | Subsurface   | Iron        | mg/kg        | 2.31E+04   | 8.03E-02         | 3.93E-02      | 5.39E-06          |
| 194         | 24        | Subsurface   | Manganese   | mg/kg        | 6.03E+02   | 2.09E-03         | 8.20E-04      | 1.41E-07          |
| 194         | 24        | Subsurface   | Mercury     | mg/kg        | 7.03E+00   | 2.44E-05         | 1.20E-05      | 4.89E-05          |
| 194         | 24        | Subsurface   | Nickel      | mg/kg        | 8.41E+01   | 2.92E-04         | 1.15E-04      | 1.97E-08          |
| 194         | 24        | Subsurface   | Total PAH   | mg/kg        | 1.49E-02   | 5.18E-08         | 6.59E-08      | 2.57E-10          |
| 194         | 25        | Subsurface   | Aluminum    | mg/kg        | 1.45E+04   | 5.04E-02         | 2.47E-02      | 3.39E-06          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 25        | Subsurface   | Arsenic     | mg/kg        | 1.05E+01   | 3.65E-05         | 1.07E-05      | 2.45E-09          |
| 194         | 25        | Subsurface   | Barium      | mg/kg        | 3.00E+02   | 1.04E-03         | 5.10E-04      | 7.01E-08          |
| 194         | 25        | Subsurface   | Beryllium   | mg/kg        | 8.30E-01   | 2.88E-06         | 1.98E-07      | 1.94E-10          |
| 194         | 25        | Subsurface   | Chromium    | mg/kg        | 5.23E+01   | 1.82E-04         | 8.89E-05      | 1.22E-08          |
| 194         | 25        | Subsurface   | Manganese   | mg/kg        | 9.90E+02   | 3.44E-03         | 1.35E-03      | 2.31E-07          |
| 194         | 25        | Subsurface   | Nickel      | mg/kg        | 6.33E+01   | 2.20E-04         | 8.62E-05      | 1.48E-08          |
| 194         | 25        | Subsurface   | Total PAH   | mg/kg        | 2.06E-02   | 7.16E-08         | 9.11E-08      | 3.56E-10          |
| 194         | 26        | Subsurface   | Aluminum    | mg/kg        | 1.21E+04   | 4.20E-02         | 2.05E-02      | 2.82E-06          |
| 194         | 26        | Subsurface   | Arsenic     | mg/kg        | 9.09E+00   | 3.16E-05         | 9.28E-06      | 2.12E-09          |
| 194         | 26        | Subsurface   | Beryllium   | mg/kg        | 7.31E-01   | 2.54E-06         | 1.74E-07      | 1.71E-10          |
| 194         | 26        | Subsurface   | Chromium    | mg/kg        | 4.81E+01   | 1.67E-04         | 8.18E-05      | 1.12E-08          |
| 194         | 26        | Subsurface   | Cobalt      | mg/kg        | 1.34E+01   | 4.67E-05         | 2.29E-05      | 3.14E-09          |
| 194         | 26        | Subsurface   | Manganese   | mg/kg        | 6.25E+02   | 2.17E-03         | 8.51E-04      | 1.46E-07          |
| 194         | 26        | Subsurface   | Silver      | mg/kg        | 1.03E+01   | 3.57E-05         | 1.40E-05      | 2.40E-09          |
| 194         | 26        | Subsurface   | Thallium    | mg/kg        | 3.12E-01   | 1.08E-06         | 5.31E-07      | 7.29E-11          |
| 194         | 26        | Subsurface   | Vanadium    | mg/kg        | 3.84E+01   | 1.33E-04         | 3.40E-05      | 8.97E-09          |
| 194         | 27        | Subsurface   | Antimony    | mg/kg        | 4.96E-01   | 1.72E-06         | 8.44E-07      | 1.16E-10          |
| 194         | 27        | Subsurface   | Arsenic     | mg/kg        | 1.07E+01   | 3.70E-05         | 1.09E-05      | 2.49E-09          |
| 194         | 27        | Subsurface   | Chromium    | mg/kg        | 5.16E+01   | 1.79E-04         | 8.78E-05      | 1.21E-08          |
| 194         | 27        | Subsurface   | Nickel      | mg/kg        | 6.55E+01   | 2.28E-04         | 8.92E-05      | 1.53E-08          |
| 194         | 27        | Subsurface   | Silver      | mg/kg        | 1.03E+01   | 3.58E-05         | 1.40E-05      | 2.41E-09          |
| 194         | 28        | Subsurface   | Arsenic     | mg/kg        | 1.13E+01   | 3.92E-05         | 1.15E-05      | 2.63E-09          |
| 194         | 28        | Subsurface   | Beryllium   | mg/kg        | 7.41E-01   | 2.58E-06         | 1.77E-07      | 1.73E-10          |
| 194         | 28        | Subsurface   | Chromium    | mg/kg        | 6.36E+01   | 2.21E-04         | 1.08E-04      | 1.49E-08          |
| 194         | 28        | Subsurface   | Manganese   | mg/kg        | 1.21E+03   | 4.19E-03         | 1.64E-03      | 2.82E-07          |
| 194         | 28        | Subsurface   | Nickel      | mg/kg        | 6.89E+01   | 2.40E-04         | 9.38E-05      | 1.61E-08          |
| 194         | 28        | Subsurface   | Silver      | mg/kg        | 1.52E+01   | 5.28E-05         | 2.07E-05      | 3.55E-09          |
| 194         | 28        | Subsurface   | Vanadium    | mg/kg        | 3.85E+01   | 1.34E-04         | 3.41E-05      | 8.99E-09          |
| 194         | 29        | Subsurface   | Aluminum    | mg/kg        | 1.32E+04   | 4.59E-02         | 2.25E-02      | 3.08E-06          |
| 194         | 29        | Subsurface   | Antimony    | mg/kg        | 7.10E-01   | 2.47E-06         | 1.21E-06      | 1.66E-10          |
| 194         | 29        | Subsurface   | Arsenic     | mg/kg        | 1.43E+01   | 4.97E-05         | 1.46E-05      | 3.34E-09          |
| 194         | 29        | Subsurface   | Barium      | mg/kg        | 1.88E+02   | 6.53E-04         | 3.20E-04      | 4.39E-08          |
| 194         | 29        | Subsurface   | Beryllium   | mg/kg        | 8.20E-01   | 2.85E-06         | 1.95E-07      | 1.92E-10          |
| 194         | 29        | Subsurface   | Chromium    | mg/kg        | 5.76E+01   | 2.00E-04         | 9.80E-05      | 1.34E-08          |
| 194         | 29        | Subsurface   | Cobalt      | mg/kg        | 1.41E+01   | 4.90E-05         | 2.40E-05      | 3.29E-09          |
| 194         | 29        | Subsurface   | Manganese   | mg/kg        | 2.65E+03   | 9.21E-03         | 3.61E-03      | 6.19E-07          |
| 194         | 29        | Subsurface   | Nickel      | mg/kg        | 8.47E+01   | 2.94E-04         | 1.15E-04      | 1.98E-08          |
| 194         | 29        | Subsurface   | Silver      | mg/kg        | 9.77E+00   | 3.40E-05         | 1.33E-05      | 2.28E-09          |
| 194         | 29        | Subsurface   | Thallium    | mg/kg        | 4.40E-01   | 1.53E-06         | 7.49E-07      | 1.03E-10          |
| 194         | 29        | Subsurface   | Vanadium    | mg/kg        | 4.12E+01   | 1.43E-04         | 3.65E-05      | 9.62E-09          |
| 194         | 30        | Subsurface   | Arsenic     | mg/kg        | 9.44E+00   | 3.28E-05         | 9.64E-06      | 2.21E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 30        | Subsurface   | Beryllium   | mg/kg        | 3.16E+00   | 1.10E-05         | 7.53E-07      | 7.39E-10          |
| 194         | 30        | Subsurface   | Chromium    | mg/kg        | 5.70E+01   | 1.98E-04         | 9.70E-05      | 1.33E-08          |
| 194         | 30        | Subsurface   | Manganese   | mg/kg        | 6.15E+02   | 2.14E-03         | 8.36E-04      | 1.44E-07          |
| 194         | 30        | Subsurface   | Mercury     | mg/kg        | 8.80E+00   | 3.06E-05         | 1.50E-05      | 6.13E-05          |
| 194         | 30        | Subsurface   | Nickel      | mg/kg        | 6.99E+01   | 2.43E-04         | 9.51E-05      | 1.63E-08          |
| 194         | 30        | Subsurface   | Silver      | mg/kg        | 1.04E+01   | 3.61E-05         | 1.41E-05      | 2.42E-09          |
| 194         | 30        | Subsurface   | Vanadium    | mg/kg        | 2.79E+01   | 9.69E-05         | 2.47E-05      | 6.51E-09          |
| 196         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.79E+04   | 6.22E-02         | 3.05E-02      | 4.18E-06          |
| 196         | 1         | Subsurface   | Antimony    | mg/kg        | 1.21E+02   | 4.21E-04         | 2.06E-04      | 2.83E-08          |
| 196         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.05E+01   | 3.65E-05         | 1.07E-05      | 2.45E-09          |
| 196         | 1         | Subsurface   | Barium      | mg/kg        | 3.89E+02   | 1.35E-03         | 6.62E-04      | 9.09E-08          |
| 196         | 1         | Subsurface   | Beryllium   | mg/kg        | 1.13E+02   | 3.93E-04         | 2.69E-05      | 2.64E-08          |
| 196         | 1         | Subsurface   | Cadmium     | mg/kg        | 1.16E+02   | 4.03E-04         | 3.95E-06      | 2.71E-08          |
| 196         | 1         | Subsurface   | Chromium    | mg/kg        | 1.12E+02   | 3.89E-04         | 1.91E-04      | 2.62E-08          |
| 196         | 1         | Subsurface   | Cobalt      | mg/kg        | 1.12E+02   | 3.89E-04         | 1.91E-04      | 2.62E-08          |
| 196         | 1         | Subsurface   | Iron        | mg/kg        | 2.96E+04   | 1.03E-01         | 5.04E-02      | 6.91E-06          |
| 196         | 1         | Subsurface   | Manganese   | mg/kg        | 1.98E+03   | 6.88E-03         | 2.70E-03      | 4.62E-07          |
| 196         | 1         | Subsurface   | Nickel      | mg/kg        | 5.87E+02   | 2.04E-03         | 7.99E-04      | 1.37E-07          |
| 196         | 1         | Subsurface   | Silver      | mg/kg        | 6.54E+01   | 2.27E-04         | 8.90E-05      | 1.53E-08          |
| 196         | 1         | Subsurface   | Thallium    | mg/kg        | 1.14E+02   | 3.96E-04         | 1.94E-04      | 2.66E-08          |
| 196         | 1         | Subsurface   | Uranium     | mg/kg        | 2.33E+01   | 8.10E-05         | 3.96E-05      | 5.44E-09          |
| 196         | 1         | Subsurface   | Vanadium    | mg/kg        | 4.38E+01   | 1.52E-04         | 3.88E-05      | 1.02E-08          |
| 196         | 1         | Subsurface   | Zinc        | mg/kg        | 1.65E+03   | 5.73E-03         | 2.81E-03      | 3.85E-07          |
| 196         | 2         | Subsurface   | Aluminum    | mg/kg        | 1.69E+04   | 5.87E-02         | 2.88E-02      | 3.95E-06          |
| 196         | 2         | Subsurface   | Antimony    | mg/kg        | 6.22E+01   | 2.16E-04         | 1.06E-04      | 1.45E-08          |
| 196         | 2         | Subsurface   | Arsenic     | mg/kg        | 9.40E+00   | 3.27E-05         | 9.60E-06      | 2.20E-09          |
| 196         | 2         | Subsurface   | Barium      | mg/kg        | 2.02E+02   | 7.02E-04         | 3.44E-04      | 4.72E-08          |
| 196         | 2         | Subsurface   | Cadmium     | mg/kg        | 4.42E+00   | 1.54E-05         | 1.50E-07      | 1.03E-09          |
| 196         | 2         | Subsurface   | Nickel      | mg/kg        | 8.01E+01   | 2.78E-04         | 1.09E-04      | 1.87E-08          |
| 196         | 2         | Subsurface   | PCB, Total  | mg/kg        | 1.51E+00   | 5.25E-06         | 7.19E-06      | 5.95E-07          |
| 196         | 2         | Subsurface   | Selenium    | mg/kg        | 6.29E+01   | 2.19E-04         | 1.07E-04      | 1.47E-08          |
| 196         | 2         | Subsurface   | Total PAH   | mg/kg        | 9.04E+00   | 3.14E-05         | 4.00E-05      | 1.56E-07          |
| 489         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.00E+01   | 3.48E-05         | 1.02E-05      | 2.34E-09          |
| 489         | 1         | Subsurface   | Cadmium     | mg/kg        | 8.70E-01   | 3.02E-06         | 2.96E-08      | 2.03E-10          |
| 489         | 1         | Subsurface   | Nickel      | mg/kg        | 7.88E+01   | 2.74E-04         | 1.07E-04      | 1.84E-08          |
| 489         | 1         | Subsurface   | Total PAH   | mg/kg        | 8.22E-02   | 2.86E-07         | 3.64E-07      | 1.42E-09          |
| 531         | 1         | Subsurface   | Antimony    | mg/kg        | 1.00E+00   | 3.48E-06         | 1.70E-06      | 2.34E-10          |
| 531         | 1         | Subsurface   | Arsenic     | mg/kg        | 4.68E+01   | 1.63E-04         | 4.78E-05      | 1.09E-08          |
| 531         | 1         | Subsurface   | Cadmium     | mg/kg        | 3.10E+00   | 1.08E-05         | 1.05E-07      | 7.24E-10          |
| 531         | 1         | Subsurface   | Chromium    | mg/kg        | 5.33E+01   | 1.85E-04         | 9.07E-05      | 1.25E-08          |
| 531         | 1         | Subsurface   | Iron        | mg/kg        | 5.68E+04   | 1.98E-01         | 9.67E-02      | 1.33E-05          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 531         | 1         | Subsurface   | Manganese   | mg/kg        | 8.65E+02   | 3.01E-03         | 1.18E-03      | 2.02E-07          |
| 531         | 1         | Subsurface   | Nickel      | mg/kg        | 1.62E+02   | 5.64E-04         | 2.21E-04      | 3.79E-08          |
| 531         | 1         | Subsurface   | Total PAH   | mg/kg        | 5.34E-02   | 1.86E-07         | 2.36E-07      | 9.22E-10          |
| 531         | 1         | Subsurface   | Uranium     | mg/kg        | 2.41E+01   | 8.37E-05         | 4.10E-05      | 5.62E-09          |
| 531         | 1         | Subsurface   | Zinc        | mg/kg        | 2.45E+03   | 8.52E-03         | 4.17E-03      | 5.73E-07          |
| 200         | 1         | Subsurface   | Antimony    | mg/kg        | 3.82E-01   | 1.33E-06         | 6.50E-07      | 8.92E-11          |
| 200         | 1         | Subsurface   | Arsenic     | mg/kg        | 9.73E+00   | 3.38E-05         | 9.93E-06      | 2.27E-09          |
| 200         | 1         | Subsurface   | Chromium    | mg/kg        | 6.19E+01   | 2.15E-04         | 1.05E-04      | 1.45E-08          |
| 200         | 1         | Subsurface   | Manganese   | mg/kg        | 4.60E+02   | 1.60E-03         | 6.25E-04      | 1.07E-07          |
| 200         | 1         | Subsurface   | Mercury     | mg/kg        | 6.93E+00   | 2.41E-05         | 1.18E-05      | 4.82E-05          |
| 200         | 1         | Subsurface   | Nickel      | mg/kg        | 1.26E+02   | 4.37E-04         | 1.71E-04      | 2.94E-08          |
| 200         | 1         | Subsurface   | PCB, Total  | mg/kg        | 2.60E+00   | 9.04E-06         | 1.24E-05      | 1.02E-06          |
| 200         | 1         | Subsurface   | Silver      | mg/kg        | 9.47E+00   | 3.29E-05         | 1.29E-05      | 2.21E-09          |
| 200         | 1         | Subsurface   | Total PAH   | mg/kg        | 1.89E-02   | 6.57E-08         | 8.36E-08      | 3.26E-10          |
| 200         | 1         | Subsurface   | Uranium     | mg/kg        | 2.65E+01   | 9.20E-05         | 4.50E-05      | 6.18E-09          |
| 212         | 1         | Subsurface   | Antimony    | mg/kg        | 1.40E+00   | 4.87E-06         | 2.38E-06      | 3.27E-10          |
| 212         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.44E+01   | 5.01E-05         | 1.47E-05      | 3.37E-09          |
| 212         | 1         | Subsurface   | Barium      | mg/kg        | 1.92E+02   | 6.67E-04         | 3.27E-04      | 4.48E-08          |
| 212         | 1         | Subsurface   | Beryllium   | mg/kg        | 8.90E-01   | 3.09E-06         | 2.12E-07      | 2.08E-10          |
| 212         | 1         | Subsurface   | Chromium    | mg/kg        | 6.66E+01   | 2.32E-04         | 1.13E-04      | 1.56E-08          |
| 212         | 1         | Subsurface   | Cobalt      | mg/kg        | 1.76E+01   | 6.12E-05         | 2.99E-05      | 4.11E-09          |
| 212         | 1         | Subsurface   | Iron        | mg/kg        | 4.14E+04   | 1.44E-01         | 7.04E-02      | 9.67E-06          |
| 212         | 1         | Subsurface   | Manganese   | mg/kg        | 1.44E+03   | 5.00E-03         | 1.96E-03      | 3.36E-07          |
| 212         | 1         | Subsurface   | Mercury     | mg/kg        | 6.94E+00   | 2.41E-05         | 1.18E-05      | 4.83E-05          |
| 212         | 1         | Subsurface   | Nickel      | mg/kg        | 8.69E+01   | 3.02E-04         | 1.18E-04      | 2.03E-08          |
| 212         | 1         | Subsurface   | PCB, Total  | mg/kg        | 1.80E-01   | 6.26E-07         | 8.58E-07      | 7.09E-08          |
| 212         | 1         | Subsurface   | Silver      | mg/kg        | 1.55E+01   | 5.39E-05         | 2.11E-05      | 3.63E-09          |
| 212         | 1         | Subsurface   | Uranium     | mg/kg        | 2.30E+01   | 7.99E-05         | 3.91E-05      | 5.37E-09          |
| 212         | 1         | Subsurface   | Vanadium    | mg/kg        | 5.33E+01   | 1.85E-04         | 4.72E-05      | 1.24E-08          |
| 213         | 1         | Subsurface   | Antimony    | mg/kg        | 8.50E-01   | 2.95E-06         | 1.45E-06      | 1.99E-10          |
| 213         | 1         | Subsurface   | Arsenic     | mg/kg        | 9.21E+00   | 3.20E-05         | 9.40E-06      | 2.15E-09          |
| 213         | 1         | Subsurface   | Chromium    | mg/kg        | 5.47E+01   | 1.90E-04         | 9.30E-05      | 1.28E-08          |
| 213         | 1         | Subsurface   | Manganese   | mg/kg        | 9.06E+02   | 3.15E-03         | 1.23E-03      | 2.12E-07          |
| 213         | 1         | Subsurface   | Nickel      | mg/kg        | 6.67E+01   | 2.32E-04         | 9.08E-05      | 1.56E-08          |
| 213         | 1         | Subsurface   | PCB, Total  | mg/kg        | 7.30E-02   | 2.54E-07         | 3.48E-07      | 2.87E-08          |
| 213         | 1         | Subsurface   | Silver      | mg/kg        | 1.32E+01   | 4.58E-05         | 1.79E-05      | 3.08E-09          |
| 213         | 1         | Subsurface   | Total PAH   | mg/kg        | 1.72E-01   | 5.97E-07         | 7.60E-07      | 2.97E-09          |
| 213         | 2         | Subsurface   | Chromium    | mg/kg        | 6.77E+01   | 2.35E-04         | 1.15E-04      | 1.58E-08          |
| 213         | 2         | Subsurface   | Manganese   | mg/kg        | 2.10E+03   | 7.31E-03         | 2.86E-03      | 4.91E-07          |
| 213         | 2         | Subsurface   | Nickel      | mg/kg        | 9.10E+01   | 3.16E-04         | 1.24E-04      | 2.13E-08          |
| 213         | 2         | Subsurface   | Silver      | mg/kg        | 1.13E+01   | 3.91E-05         | 1.53E-05      | 2.63E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b>        | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|--------------------|--------------|------------|------------------|---------------|-------------------|
| 214         | 1         | Subsurface   | Antimony           | mg/kg        | 5.70E-01   | 1.98E-06         | 9.70E-07      | 1.33E-10          |
| 214         | 1         | Subsurface   | Arsenic            | mg/kg        | 1.15E+01   | 4.00E-05         | 1.18E-05      | 2.69E-09          |
| 215         | 1         | Subsurface   | Antimony           | mg/kg        | 6.80E-01   | 2.36E-06         | 1.16E-06      | 1.59E-10          |
| 215         | 1         | Subsurface   | Arsenic            | mg/kg        | 1.02E+01   | 3.53E-05         | 1.04E-05      | 2.37E-09          |
| 215         | 1         | Subsurface   | Chromium           | mg/kg        | 5.73E+01   | 1.99E-04         | 9.75E-05      | 1.34E-08          |
| 215         | 1         | Subsurface   | Iron               | mg/kg        | 3.87E+04   | 1.34E-01         | 6.58E-02      | 9.04E-06          |
| 215         | 1         | Subsurface   | Nickel             | mg/kg        | 7.32E+01   | 2.54E-04         | 9.96E-05      | 1.71E-08          |
| 215         | 1         | Subsurface   | Silver             | mg/kg        | 9.51E+00   | 3.31E-05         | 1.29E-05      | 2.22E-09          |
| 215         | 1         | Subsurface   | Total PAH          | mg/kg        | 5.00E-01   | 1.74E-06         | 2.21E-06      | 8.64E-09          |
| 216         | 1         | Subsurface   | Arsenic            | mg/kg        | 8.60E+00   | 2.99E-05         | 8.78E-06      | 2.01E-09          |
| 216         | 1         | Subsurface   | Total PAH          | mg/kg        | 1.49E-01   | 5.19E-07         | 6.61E-07      | 2.58E-09          |
| 217         | 1         | Subsurface   | Arsenic            | mg/kg        | 9.42E+00   | 3.27E-05         | 9.62E-06      | 2.20E-09          |
| 217         | 1         | Subsurface   | Chromium           | mg/kg        | 6.53E+01   | 2.27E-04         | 1.11E-04      | 1.53E-08          |
| 217         | 1         | Subsurface   | Cobalt             | mg/kg        | 1.64E+01   | 5.70E-05         | 2.79E-05      | 3.83E-09          |
| 217         | 1         | Subsurface   | Manganese          | mg/kg        | 9.97E+02   | 3.47E-03         | 1.36E-03      | 2.33E-07          |
| 217         | 1         | Subsurface   | Mercury            | mg/kg        | 7.37E+00   | 2.56E-05         | 1.25E-05      | 5.13E-05          |
| 217         | 1         | Subsurface   | Nickel             | mg/kg        | 8.71E+01   | 3.03E-04         | 1.19E-04      | 2.03E-08          |
| 217         | 1         | Subsurface   | Silver             | mg/kg        | 1.35E+01   | 4.67E-05         | 1.83E-05      | 3.14E-09          |
| 217         | 1         | Subsurface   | Vanadium           | mg/kg        | 3.00E+01   | 1.04E-04         | 2.65E-05      | 7.01E-09          |
| 217         | 2         | Subsurface   | 1,1-Dichloroethene | mg/kg        | 1.88E-02   | 6.53E-08         | 1.60E-07      | 3.98E-06          |
| 217         | 2         | Subsurface   | Aluminum           | mg/kg        | 1.02E+04   | 3.56E-02         | 1.74E-02      | 2.39E-06          |
| 217         | 2         | Subsurface   | Antimony           | mg/kg        | 3.10E+00   | 1.08E-05         | 5.27E-06      | 7.24E-10          |
| 217         | 2         | Subsurface   | Arsenic            | mg/kg        | 9.97E+00   | 3.47E-05         | 1.02E-05      | 2.33E-09          |
| 217         | 2         | Subsurface   | Beryllium          | mg/kg        | 5.85E-01   | 2.03E-06         | 1.39E-07      | 1.37E-10          |
| 217         | 2         | Subsurface   | Chromium           | mg/kg        | 6.61E+01   | 2.30E-04         | 1.12E-04      | 1.54E-08          |
| 217         | 2         | Subsurface   | Cobalt             | mg/kg        | 8.29E+01   | 2.88E-04         | 1.41E-04      | 1.94E-08          |
| 217         | 2         | Subsurface   | Iron               | mg/kg        | 3.04E+04   | 1.06E-01         | 5.18E-02      | 7.11E-06          |
| 217         | 2         | Subsurface   | Manganese          | mg/kg        | 9.50E+02   | 3.30E-03         | 1.29E-03      | 2.22E-07          |
| 217         | 2         | Subsurface   | Mercury            | mg/kg        | 9.20E+00   | 3.20E-05         | 1.57E-05      | 6.41E-05          |
| 217         | 2         | Subsurface   | Nickel             | mg/kg        | 7.88E+01   | 2.74E-04         | 1.07E-04      | 1.84E-08          |
| 217         | 2         | Subsurface   | Silver             | mg/kg        | 1.61E+01   | 5.59E-05         | 2.19E-05      | 3.76E-09          |
| 217         | 2         | Subsurface   | Total PAH          | mg/kg        | 4.06E-01   | 1.41E-06         | 1.80E-06      | 7.01E-09          |
| 217         | 2         | Subsurface   | Vanadium           | mg/kg        | 2.87E+01   | 9.97E-05         | 2.54E-05      | 6.70E-09          |
| 221         | 1         | Subsurface   | Aluminum           | mg/kg        | 2.36E+04   | 8.20E-02         | 4.02E-02      | 5.51E-06          |
| 221         | 1         | Subsurface   | Antimony           | mg/kg        | 5.78E-01   | 2.01E-06         | 9.84E-07      | 1.35E-10          |
| 221         | 1         | Subsurface   | Arsenic            | mg/kg        | 1.24E+01   | 4.30E-05         | 1.26E-05      | 2.89E-09          |
| 221         | 1         | Subsurface   | Barium             | mg/kg        | 8.64E+02   | 3.00E-03         | 1.47E-03      | 2.02E-07          |
| 221         | 1         | Subsurface   | Beryllium          | mg/kg        | 1.55E+00   | 5.40E-06         | 3.70E-07      | 3.63E-10          |
| 221         | 1         | Subsurface   | Chromium           | mg/kg        | 6.57E+01   | 2.28E-04         | 1.12E-04      | 1.53E-08          |
| 221         | 1         | Subsurface   | Cobalt             | mg/kg        | 7.22E+01   | 2.51E-04         | 1.23E-04      | 1.69E-08          |
| 221         | 1         | Subsurface   | Iron               | mg/kg        | 3.86E+04   | 1.34E-01         | 6.57E-02      | 9.01E-06          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 221         | 1         | Subsurface   | Manganese   | mg/kg        | 4.39E+03   | 1.52E-02         | 5.97E-03      | 1.02E-06          |
| 221         | 1         | Subsurface   | Mercury     | mg/kg        | 1.23E+01   | 4.27E-05         | 2.09E-05      | 8.56E-05          |
| 221         | 1         | Subsurface   | Nickel      | mg/kg        | 9.46E+01   | 3.29E-04         | 1.29E-04      | 2.21E-08          |
| 221         | 1         | Subsurface   | PCB, Total  | mg/kg        | 5.00E-01   | 1.74E-06         | 2.38E-06      | 1.97E-07          |
| 221         | 1         | Subsurface   | Silver      | mg/kg        | 9.74E+00   | 3.39E-05         | 1.33E-05      | 2.27E-09          |
| 221         | 1         | Subsurface   | Thallium    | mg/kg        | 1.24E+00   | 4.30E-06         | 2.10E-06      | 2.89E-10          |
| 221         | 1         | Subsurface   | Total PAH   | mg/kg        | 1.02E+00   | 3.55E-06         | 4.52E-06      | 1.77E-08          |
| 221         | 1         | Subsurface   | Uranium     | mg/kg        | 1.46E+01   | 5.08E-05         | 2.49E-05      | 3.41E-09          |
| 221         | 1         | Subsurface   | Vanadium    | mg/kg        | 5.36E+01   | 1.86E-04         | 4.74E-05      | 1.25E-08          |
| 222         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.11E+04   | 3.84E-02         | 1.88E-02      | 2.58E-06          |
| 222         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.02E+01   | 3.54E-05         | 1.04E-05      | 2.38E-09          |
| 222         | 1         | Subsurface   | Chromium    | mg/kg        | 6.48E+01   | 2.25E-04         | 1.10E-04      | 1.51E-08          |
| 222         | 1         | Subsurface   | Manganese   | mg/kg        | 6.33E+02   | 2.20E-03         | 8.61E-04      | 1.48E-07          |
| 222         | 1         | Subsurface   | Nickel      | mg/kg        | 9.19E+01   | 3.19E-04         | 1.25E-04      | 2.15E-08          |
| 222         | 1         | Subsurface   | PCB, Total  | mg/kg        | 9.67E-01   | 3.36E-06         | 4.61E-06      | 3.81E-07          |
| 222         | 1         | Subsurface   | Total PAH   | mg/kg        | 1.77E-01   | 6.16E-07         | 7.84E-07      | 3.06E-09          |
| 222         | 1         | Subsurface   | Uranium     | mg/kg        | 2.77E+01   | 9.64E-05         | 4.72E-05      | 6.48E-09          |
| 227         | 1         | Subsurface   | Arsenic     | mg/kg        | 8.46E+00   | 2.94E-05         | 8.64E-06      | 1.98E-09          |
| 227         | 1         | Subsurface   | Beryllium   | mg/kg        | 5.50E-01   | 1.91E-06         | 1.31E-07      | 1.28E-10          |
| 227         | 1         | Subsurface   | Chromium    | mg/kg        | 5.34E+01   | 1.86E-04         | 9.09E-05      | 1.25E-08          |
| 227         | 1         | Subsurface   | Nickel      | mg/kg        | 1.99E+02   | 6.92E-04         | 2.71E-04      | 4.65E-08          |
| 227         | 1         | Subsurface   | PCB, Total  | mg/kg        | 3.94E+00   | 1.37E-05         | 1.88E-05      | 1.55E-06          |
| 227         | 1         | Subsurface   | Thallium    | mg/kg        | 5.10E-01   | 1.77E-06         | 8.68E-07      | 1.19E-10          |
| 227         | 1         | Subsurface   | Total PAH   | mg/kg        | 3.38E-01   | 1.17E-06         | 1.49E-06      | 5.83E-09          |
| 227         | 1         | Subsurface   | Uranium     | mg/kg        | 1.02E+02   | 3.53E-04         | 1.73E-04      | 2.37E-08          |
| 227         | 2         | Subsurface   | Arsenic     | mg/kg        | 8.34E+00   | 2.90E-05         | 8.52E-06      | 1.95E-09          |
| 227         | 2         | Subsurface   | Barium      | mg/kg        | 1.35E+02   | 4.70E-04         | 2.30E-04      | 3.16E-08          |
| 227         | 2         | Subsurface   | Beryllium   | mg/kg        | 5.63E-01   | 1.96E-06         | 1.34E-07      | 1.32E-10          |
| 227         | 2         | Subsurface   | Chromium    | mg/kg        | 4.55E+01   | 1.58E-04         | 7.74E-05      | 1.06E-08          |
| 227         | 2         | Subsurface   | Cobalt      | mg/kg        | 1.06E+01   | 3.69E-05         | 1.81E-05      | 2.48E-09          |
| 227         | 2         | Subsurface   | Manganese   | mg/kg        | 7.38E+02   | 2.56E-03         | 1.00E-03      | 1.72E-07          |
| 227         | 2         | Subsurface   | Mercury     | mg/kg        | 8.32E+00   | 2.89E-05         | 1.42E-05      | 5.79E-05          |
| 227         | 2         | Subsurface   | Nickel      | mg/kg        | 1.23E+02   | 4.28E-04         | 1.68E-04      | 2.88E-08          |
| 227         | 2         | Subsurface   | PCB, Total  | mg/kg        | 4.75E+00   | 1.65E-05         | 2.26E-05      | 1.87E-06          |
| 227         | 2         | Subsurface   | Silver      | mg/kg        | 8.52E+00   | 2.96E-05         | 1.16E-05      | 1.99E-09          |
| 227         | 2         | Subsurface   | Total PAH   | mg/kg        | 1.16E-01   | 4.02E-07         | 5.12E-07      | 2.00E-09          |
| 227         | 2         | Subsurface   | Uranium     | mg/kg        | 1.51E+01   | 5.23E-05         | 2.56E-05      | 3.52E-09          |
| 227         | 2         | Subsurface   | Vanadium    | mg/kg        | 2.46E+01   | 8.54E-05         | 2.17E-05      | 5.74E-09          |
| 228         | 1         | Subsurface   | Antimony    | mg/kg        | 6.30E-01   | 2.19E-06         | 1.07E-06      | 1.47E-10          |
| 228         | 1         | Subsurface   | Arsenic     | mg/kg        | 2.79E+01   | 9.70E-05         | 2.85E-05      | 6.52E-09          |
| 228         | 1         | Subsurface   | Beryllium   | mg/kg        | 7.50E-01   | 2.61E-06         | 1.79E-07      | 1.75E-10          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 228         | 1         | Subsurface   | Cadmium     | mg/kg        | 3.90E+00   | 1.36E-05         | 1.33E-07      | 9.11E-10          |
| 228         | 1         | Subsurface   | Chromium    | mg/kg        | 1.89E+02   | 6.57E-04         | 3.21E-04      | 4.41E-08          |
| 228         | 1         | Subsurface   | Iron        | mg/kg        | 3.77E+04   | 1.31E-01         | 6.42E-02      | 8.81E-06          |
| 228         | 1         | Subsurface   | Manganese   | mg/kg        | 9.97E+02   | 3.47E-03         | 1.36E-03      | 2.33E-07          |
| 228         | 1         | Subsurface   | Mercury     | mg/kg        | 9.37E+00   | 3.26E-05         | 1.59E-05      | 6.52E-05          |
| 228         | 1         | Subsurface   | Nickel      | mg/kg        | 7.92E+01   | 2.75E-04         | 1.08E-04      | 1.85E-08          |
| 228         | 1         | Subsurface   | Silver      | mg/kg        | 1.16E+01   | 4.04E-05         | 1.58E-05      | 2.72E-09          |
| 228         | 1         | Subsurface   | Total PAH   | mg/kg        | 6.69E-02   | 2.32E-07         | 2.96E-07      | 1.15E-09          |
| 228         | 1         | Subsurface   | Uranium     | mg/kg        | 1.51E+01   | 5.26E-05         | 2.57E-05      | 3.53E-09          |
| 27          | 1         | Subsurface   | Nickel      | mg/kg        | 3.97E+01   | 1.38E-04         | 5.40E-05      | 9.27E-09          |
| 27          | 1         | Subsurface   | PCB, Total  | mg/kg        | 7.20E-02   | 2.50E-07         | 3.43E-07      | 2.84E-08          |
| 76          | 1         | Subsurface   | Arsenic     | mg/kg        | 1.31E+01   | 4.55E-05         | 1.34E-05      | 3.06E-09          |
| 76          | 1         | Subsurface   | Barium      | mg/kg        | 2.69E+02   | 9.35E-04         | 4.58E-04      | 6.28E-08          |
| 76          | 1         | Subsurface   | Mercury     | mg/kg        | 7.45E+00   | 2.59E-05         | 1.27E-05      | 5.19E-05          |
| 76          | 1         | Subsurface   | PCB, Total  | mg/kg        | 2.60E-01   | 9.04E-07         | 1.24E-06      | 1.02E-07          |
| 76          | 1         | Subsurface   | Total PAH   | mg/kg        | 1.76E+00   | 6.11E-06         | 7.78E-06      | 3.04E-08          |
| 165         | 1         | Subsurface   | Aluminum    | mg/kg        | 8.41E+03   | 2.92E-02         | 1.43E-02      | 1.96E-06          |
| 165         | 1         | Subsurface   | Antimony    | mg/kg        | 2.20E+00   | 7.65E-06         | 3.74E-06      | 5.14E-10          |
| 165         | 1         | Subsurface   | Arsenic     | mg/kg        | 6.37E+01   | 2.21E-04         | 6.50E-05      | 1.49E-08          |
| 165         | 1         | Subsurface   | Barium      | mg/kg        | 5.25E+02   | 1.82E-03         | 8.93E-04      | 1.23E-07          |
| 165         | 1         | Subsurface   | Beryllium   | mg/kg        | 8.14E-01   | 2.83E-06         | 1.94E-07      | 1.90E-10          |
| 165         | 1         | Subsurface   | Chromium    | mg/kg        | 3.61E+01   | 1.25E-04         | 6.14E-05      | 8.42E-09          |
| 165         | 1         | Subsurface   | Cobalt      | mg/kg        | 8.44E+00   | 2.93E-05         | 1.44E-05      | 1.97E-09          |
| 165         | 1         | Subsurface   | Mercury     | mg/kg        | 3.77E-01   | 1.31E-06         | 6.41E-07      | 2.62E-06          |
| 165         | 1         | Subsurface   | Naphthalene | mg/kg        | 1.51E+00   | 5.23E-06         | 1.28E-05      | 1.17E-05          |
| 165         | 1         | Subsurface   | Nickel      | mg/kg        | 3.36E+01   | 1.17E-04         | 4.57E-05      | 7.84E-09          |
| 165         | 1         | Subsurface   | PCB, Total  | mg/kg        | 9.89E+00   | 3.44E-05         | 4.71E-05      | 3.89E-06          |
| 165         | 1         | Subsurface   | Silver      | mg/kg        | 3.09E+01   | 1.07E-04         | 4.21E-05      | 7.22E-09          |
| 165         | 1         | Subsurface   | Total PAH   | mg/kg        | 1.87E+00   | 6.49E-06         | 8.27E-06      | 3.23E-08          |
| 165         | 1         | Subsurface   | Uranium     | mg/kg        | 1.08E+02   | 3.74E-04         | 1.83E-04      | 2.51E-08          |
| 158         | 1         | Subsurface   | Antimony    | mg/kg        | 4.90E-01   | 1.70E-06         | 8.34E-07      | 1.14E-10          |
| 158         | 1         | Subsurface   | Arsenic     | mg/kg        | 9.51E+00   | 3.31E-05         | 9.71E-06      | 2.22E-09          |
| 158         | 1         | Subsurface   | Barium      | mg/kg        | 1.64E+02   | 5.71E-04         | 2.80E-04      | 3.84E-08          |
| 158         | 1         | Subsurface   | Beryllium   | mg/kg        | 5.69E-01   | 1.98E-06         | 1.36E-07      | 1.33E-10          |
| 158         | 1         | Subsurface   | Chromium    | mg/kg        | 5.11E+01   | 1.78E-04         | 8.70E-05      | 1.19E-08          |
| 158         | 1         | Subsurface   | Cobalt      | mg/kg        | 1.26E+01   | 4.36E-05         | 2.14E-05      | 2.93E-09          |
| 158         | 1         | Subsurface   | Manganese   | mg/kg        | 1.04E+03   | 3.63E-03         | 1.42E-03      | 2.44E-07          |
| 158         | 1         | Subsurface   | Mercury     | mg/kg        | 1.05E+01   | 3.64E-05         | 1.78E-05      | 7.28E-05          |
| 158         | 1         | Subsurface   | Nickel      | mg/kg        | 8.12E+01   | 2.82E-04         | 1.11E-04      | 1.90E-08          |
| 158         | 1         | Subsurface   | Silver      | mg/kg        | 1.01E+01   | 3.50E-05         | 1.37E-05      | 2.35E-09          |
| 158         | 1         | Subsurface   | Thallium    | mg/kg        | 3.69E-01   | 1.28E-06         | 6.28E-07      | 8.62E-11          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 158         | 1         | Subsurface   | Total PAH   | mg/kg        | 4.78E-01   | 1.66E-06         | 2.12E-06      | 8.26E-09          |
| 158         | 1         | Subsurface   | Uranium     | mg/kg        | 2.03E+01   | 7.06E-05         | 3.45E-05      | 4.74E-09          |
| 169         | 1         | Subsurface   | Aluminum    | mg/kg        | 2.06E+04   | 7.16E-02         | 3.51E-02      | 4.81E-06          |
| 169         | 1         | Subsurface   | Antimony    | mg/kg        | 1.30E+00   | 4.52E-06         | 2.21E-06      | 3.04E-10          |
| 169         | 1         | Subsurface   | Arsenic     | mg/kg        | 2.03E+01   | 7.06E-05         | 2.07E-05      | 4.74E-09          |
| 169         | 1         | Subsurface   | Barium      | mg/kg        | 2.81E+02   | 9.77E-04         | 4.78E-04      | 6.56E-08          |
| 169         | 1         | Subsurface   | Beryllium   | mg/kg        | 2.30E+00   | 7.99E-06         | 5.48E-07      | 5.37E-10          |
| 169         | 1         | Subsurface   | Chromium    | mg/kg        | 2.15E+02   | 7.47E-04         | 3.66E-04      | 5.02E-08          |
| 169         | 1         | Subsurface   | Cobalt      | mg/kg        | 7.80E+01   | 2.71E-04         | 1.33E-04      | 1.82E-08          |
| 169         | 1         | Subsurface   | Copper      | mg/kg        | 4.28E+02   | 1.49E-03         | 7.28E-04      | 1.00E-07          |
| 169         | 1         | Subsurface   | Iron        | mg/kg        | 4.16E+04   | 1.44E-01         | 7.07E-02      | 9.71E-06          |
| 169         | 1         | Subsurface   | Manganese   | mg/kg        | 1.58E+03   | 5.49E-03         | 2.15E-03      | 3.69E-07          |
| 169         | 1         | Subsurface   | Mercury     | mg/kg        | 7.87E+00   | 2.74E-05         | 1.34E-05      | 5.48E-05          |
| 169         | 1         | Subsurface   | Nickel      | mg/kg        | 8.04E+02   | 2.79E-03         | 1.09E-03      | 1.88E-07          |
| 169         | 1         | Subsurface   | PCB, Total  | mg/kg        | 1.00E+01   | 3.48E-05         | 4.76E-05      | 3.94E-06          |
| 169         | 1         | Subsurface   | Thallium    | mg/kg        | 4.60E-01   | 1.60E-06         | 7.83E-07      | 1.07E-10          |
| 169         | 1         | Subsurface   | Total PAH   | mg/kg        | 4.59E+00   | 1.59E-05         | 2.03E-05      | 7.92E-08          |
| 169         | 1         | Subsurface   | Uranium     | mg/kg        | 5.03E+01   | 1.75E-04         | 8.56E-05      | 1.18E-08          |
| 169         | 1         | Subsurface   | Vanadium    | mg/kg        | 4.49E+01   | 1.56E-04         | 3.97E-05      | 1.05E-08          |
| 19          | 1         | Subsurface   | Arsenic     | mg/kg        | 1.01E+01   | 3.51E-05         | 1.03E-05      | 2.36E-09          |
| 19          | 1         | Subsurface   | Beryllium   | mg/kg        | 1.40E+00   | 4.87E-06         | 3.34E-07      | 3.27E-10          |
| 19          | 1         | Subsurface   | Cadmium     | mg/kg        | 5.70E+00   | 1.98E-05         | 1.94E-07      | 1.33E-09          |
| 19          | 1         | Subsurface   | Cobalt      | mg/kg        | 1.35E+01   | 4.69E-05         | 2.30E-05      | 3.15E-09          |
| 19          | 1         | Subsurface   | Copper      | mg/kg        | 1.80E+03   | 6.26E-03         | 3.06E-03      | 4.20E-07          |
| 19          | 1         | Subsurface   | Nickel      | mg/kg        | 4.38E+02   | 1.52E-03         | 5.96E-04      | 1.02E-07          |
| 19          | 1         | Subsurface   | Thallium    | mg/kg        | 9.80E-01   | 3.41E-06         | 1.67E-06      | 2.29E-10          |
| 19          | 1         | Subsurface   | Total PAH   | mg/kg        | 5.23E+00   | 1.82E-05         | 2.31E-05      | 9.03E-08          |
| 19          | 1         | Subsurface   | Uranium     | mg/kg        | 1.64E+02   | 5.70E-04         | 2.79E-04      | 3.83E-08          |
| 19          | 1         | Subsurface   | Vanadium    | mg/kg        | 3.83E+01   | 1.33E-04         | 3.39E-05      | 8.95E-09          |
| 138         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.08E+04   | 3.74E-02         | 1.83E-02      | 2.51E-06          |
| 138         | 1         | Subsurface   | Antimony    | mg/kg        | 4.55E+00   | 1.58E-05         | 7.75E-06      | 1.06E-09          |
| 138         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.08E+01   | 3.74E-05         | 1.10E-05      | 2.52E-09          |
| 138         | 1         | Subsurface   | Barium      | mg/kg        | 1.99E+02   | 6.91E-04         | 3.38E-04      | 4.64E-08          |
| 138         | 1         | Subsurface   | Beryllium   | mg/kg        | 6.28E-01   | 2.18E-06         | 1.50E-07      | 1.47E-10          |
| 138         | 1         | Subsurface   | Cadmium     | mg/kg        | 4.87E+00   | 1.69E-05         | 1.66E-07      | 1.14E-09          |
| 138         | 1         | Subsurface   | Chromium    | mg/kg        | 5.65E+01   | 1.97E-04         | 9.62E-05      | 1.32E-08          |
| 138         | 1         | Subsurface   | Cobalt      | mg/kg        | 9.18E+00   | 3.19E-05         | 1.56E-05      | 2.15E-09          |
| 138         | 1         | Subsurface   | Iron        | mg/kg        | 1.99E+04   | 6.91E-02         | 3.38E-02      | 4.64E-06          |
| 138         | 1         | Subsurface   | Manganese   | mg/kg        | 6.55E+02   | 2.28E-03         | 8.92E-04      | 1.53E-07          |
| 138         | 1         | Subsurface   | Mercury     | mg/kg        | 1.46E+01   | 5.06E-05         | 2.48E-05      | 1.01E-04          |
| 138         | 1         | Subsurface   | Nickel      | mg/kg        | 7.71E+01   | 2.68E-04         | 1.05E-04      | 1.80E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 138         | 1         | Subsurface   | PCB, Total  | mg/kg        | 5.00E-01   | 1.74E-06         | 2.38E-06      | 1.97E-07          |
| 138         | 1         | Subsurface   | Silver      | mg/kg        | 1.01E+01   | 3.51E-05         | 1.37E-05      | 2.36E-09          |
| 138         | 1         | Subsurface   | Thallium    | mg/kg        | 6.20E-01   | 2.15E-06         | 1.05E-06      | 1.45E-10          |
| 138         | 1         | Subsurface   | Total PAH   | mg/kg        | 9.74E-02   | 3.39E-07         | 4.31E-07      | 1.68E-09          |
| 138         | 1         | Subsurface   | Vanadium    | mg/kg        | 2.99E+01   | 1.04E-04         | 2.64E-05      | 6.98E-09          |
| 138         | 2         | Subsurface   | Arsenic     | mg/kg        | 1.03E+01   | 3.59E-05         | 1.05E-05      | 2.41E-09          |
| 138         | 2         | Subsurface   | Cadmium     | mg/kg        | 5.00E-01   | 1.74E-06         | 1.70E-08      | 1.17E-10          |
| 138         | 2         | Subsurface   | Chromium    | mg/kg        | 6.28E+01   | 2.18E-04         | 1.07E-04      | 1.47E-08          |
| 138         | 2         | Subsurface   | Mercury     | mg/kg        | 8.30E+00   | 2.88E-05         | 1.41E-05      | 5.78E-05          |
| 138         | 2         | Subsurface   | Nickel      | mg/kg        | 9.60E+01   | 3.34E-04         | 1.31E-04      | 2.24E-08          |
| 138         | 2         | Subsurface   | PCB, Total  | mg/kg        | 9.20E-02   | 3.20E-07         | 4.38E-07      | 3.62E-08          |
| 138         | 2         | Subsurface   | Silver      | mg/kg        | 1.53E+01   | 5.32E-05         | 2.08E-05      | 3.57E-09          |
| 138         | 2         | Subsurface   | Thallium    | mg/kg        | 2.90E-01   | 1.01E-06         | 4.93E-07      | 6.77E-11          |
| 138         | 2         | Subsurface   | Total PAH   | mg/kg        | 3.84E-02   | 1.33E-07         | 1.70E-07      | 6.63E-10          |
| 180         | 1         | Subsurface   | Antimony    | mg/kg        | 5.97E-01   | 2.07E-06         | 1.02E-06      | 1.39E-10          |
| 180         | 1         | Subsurface   | Arsenic     | mg/kg        | 7.57E+01   | 2.63E-04         | 7.73E-05      | 1.77E-08          |
| 180         | 1         | Subsurface   | Beryllium   | mg/kg        | 6.25E-01   | 2.17E-06         | 1.49E-07      | 1.46E-10          |
| 180         | 1         | Subsurface   | Chromium    | mg/kg        | 6.34E+01   | 2.20E-04         | 1.08E-04      | 1.48E-08          |
| 180         | 1         | Subsurface   | Cobalt      | mg/kg        | 1.37E+01   | 4.77E-05         | 2.33E-05      | 3.20E-09          |
| 180         | 1         | Subsurface   | Manganese   | mg/kg        | 8.24E+02   | 2.86E-03         | 1.12E-03      | 1.92E-07          |
| 180         | 1         | Subsurface   | Mercury     | mg/kg        | 8.28E+00   | 2.88E-05         | 1.41E-05      | 5.76E-05          |
| 180         | 1         | Subsurface   | Nickel      | mg/kg        | 9.03E+01   | 3.14E-04         | 1.23E-04      | 2.11E-08          |
| 180         | 1         | Subsurface   | Silver      | mg/kg        | 1.17E+01   | 4.06E-05         | 1.59E-05      | 2.73E-09          |
| 180         | 1         | Subsurface   | Thallium    | mg/kg        | 4.73E-01   | 1.64E-06         | 8.05E-07      | 1.10E-10          |
| 180         | 2         | Subsurface   | Antimony    | mg/kg        | 4.58E-01   | 1.59E-06         | 7.79E-07      | 1.07E-10          |
| 180         | 2         | Subsurface   | Arsenic     | mg/kg        | 1.17E+01   | 4.06E-05         | 1.19E-05      | 2.73E-09          |
| 180         | 2         | Subsurface   | Chromium    | mg/kg        | 6.02E+01   | 2.09E-04         | 1.02E-04      | 1.41E-08          |
| 180         | 2         | Subsurface   | Manganese   | mg/kg        | 6.72E+02   | 2.34E-03         | 9.15E-04      | 1.57E-07          |
| 180         | 2         | Subsurface   | Mercury     | mg/kg        | 8.25E+00   | 2.87E-05         | 1.40E-05      | 5.74E-05          |
| 180         | 2         | Subsurface   | Nickel      | mg/kg        | 8.64E+01   | 3.00E-04         | 1.18E-04      | 2.02E-08          |
| 180         | 2         | Subsurface   | Total PAH   | mg/kg        | 9.19E-02   | 3.19E-07         | 4.06E-07      | 1.59E-09          |
| 180         | 3         | Subsurface   | Arsenic     | mg/kg        | 1.36E+01   | 4.73E-05         | 1.39E-05      | 3.18E-09          |
| 180         | 3         | Subsurface   | Beryllium   | mg/kg        | 5.03E-01   | 1.75E-06         | 1.20E-07      | 1.17E-10          |
| 180         | 3         | Subsurface   | Chromium    | mg/kg        | 5.44E+01   | 1.89E-04         | 9.25E-05      | 1.27E-08          |
| 180         | 3         | Subsurface   | Manganese   | mg/kg        | 5.12E+02   | 1.78E-03         | 6.97E-04      | 1.20E-07          |
| 180         | 3         | Subsurface   | Nickel      | mg/kg        | 7.17E+01   | 2.49E-04         | 9.76E-05      | 1.67E-08          |
| 180         | 3         | Subsurface   | Silver      | mg/kg        | 1.14E+01   | 3.96E-05         | 1.55E-05      | 2.66E-09          |
| 180         | 3         | Subsurface   | Vanadium    | mg/kg        | 2.87E+01   | 9.96E-05         | 2.54E-05      | 6.70E-09          |
| 180         | 4         | Subsurface   | Arsenic     | mg/kg        | 1.11E+01   | 3.85E-05         | 1.13E-05      | 2.59E-09          |
| 180         | 4         | Subsurface   | Barium      | mg/kg        | 1.63E+02   | 5.65E-04         | 2.77E-04      | 3.80E-08          |
| 180         | 4         | Subsurface   | Beryllium   | mg/kg        | 1.14E+00   | 3.96E-06         | 2.72E-07      | 2.66E-10          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 180         | 4         | Subsurface   | Chromium    | mg/kg        | 6.00E+01   | 2.09E-04         | 1.02E-04      | 1.40E-08          |
| 180         | 4         | Subsurface   | Cobalt      | mg/kg        | 9.68E+00   | 3.36E-05         | 1.65E-05      | 2.26E-09          |
| 180         | 4         | Subsurface   | Iron        | mg/kg        | 1.61E+04   | 5.58E-02         | 2.73E-02      | 3.75E-06          |
| 180         | 4         | Subsurface   | Manganese   | mg/kg        | 8.05E+02   | 2.80E-03         | 1.10E-03      | 1.88E-07          |
| 180         | 4         | Subsurface   | Mercury     | mg/kg        | 6.89E+00   | 2.39E-05         | 1.17E-05      | 4.80E-05          |
| 180         | 4         | Subsurface   | Nickel      | mg/kg        | 6.99E+01   | 2.43E-04         | 9.51E-05      | 1.63E-08          |
| 180         | 4         | Subsurface   | Silver      | mg/kg        | 1.16E+01   | 4.04E-05         | 1.58E-05      | 2.71E-09          |
| 180         | 4         | Subsurface   | Total PAH   | mg/kg        | 1.58E-02   | 5.49E-08         | 6.99E-08      | 2.73E-10          |
| 180         | 4         | Subsurface   | Vanadium    | mg/kg        | 3.50E+01   | 1.22E-04         | 3.10E-05      | 8.17E-09          |
| 181         | 1         | Subsurface   | Chromium    | mg/kg        | 3.44E+01   | 1.19E-04         | 5.85E-05      | 8.03E-09          |
| 181         | 1         | Subsurface   | PCB, Total  | mg/kg        | 1.03E-01   | 3.58E-07         | 4.91E-07      | 4.06E-08          |
| 181         | 1         | Subsurface   | Thallium    | mg/kg        | 3.50E+00   | 1.22E-05         | 5.96E-06      | 8.17E-10          |
| 181         | 1         | Subsurface   | Total PAH   | mg/kg        | 3.43E-02   | 1.19E-07         | 1.52E-07      | 5.92E-10          |
| 195         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.17E+01   | 4.08E-05         | 1.20E-05      | 2.74E-09          |
| 195         | 1         | Subsurface   | Chromium    | mg/kg        | 5.85E+01   | 2.03E-04         | 9.96E-05      | 1.37E-08          |
| 195         | 1         | Subsurface   | Nickel      | mg/kg        | 8.00E+01   | 2.78E-04         | 1.09E-04      | 1.87E-08          |
| 195         | 1         | Subsurface   | Silver      | mg/kg        | 9.37E+00   | 3.26E-05         | 1.28E-05      | 2.19E-09          |
| 195         | 1         | Subsurface   | Thallium    | mg/kg        | 2.99E-01   | 1.04E-06         | 5.09E-07      | 6.98E-11          |
| 195         | 1         | Subsurface   | Total PAH   | mg/kg        | 1.53E-02   | 5.32E-08         | 6.77E-08      | 2.64E-10          |
| 195         | 2         | Subsurface   | Chromium    | mg/kg        | 5.63E+01   | 1.96E-04         | 9.58E-05      | 1.32E-08          |
| 195         | 2         | Subsurface   | Silver      | mg/kg        | 9.48E+00   | 3.29E-05         | 1.29E-05      | 2.21E-09          |
| 195         | 2         | Subsurface   | Total PAH   | mg/kg        | 1.93E-02   | 6.71E-08         | 8.54E-08      | 3.33E-10          |
| 195         | 3         | Subsurface   | Arsenic     | mg/kg        | 1.09E+01   | 3.77E-05         | 1.11E-05      | 2.53E-09          |
| 195         | 3         | Subsurface   | Chromium    | mg/kg        | 5.29E+01   | 1.84E-04         | 9.00E-05      | 1.23E-08          |
| 195         | 3         | Subsurface   | Manganese   | mg/kg        | 4.88E+02   | 1.69E-03         | 6.64E-04      | 1.14E-07          |
| 195         | 3         | Subsurface   | Nickel      | mg/kg        | 9.63E+01   | 3.35E-04         | 1.31E-04      | 2.25E-08          |
| 195         | 3         | Subsurface   | Total PAH   | mg/kg        | 3.31E-02   | 1.15E-07         | 1.46E-07      | 5.72E-10          |
| 195         | 4         | Subsurface   | Arsenic     | mg/kg        | 1.01E+01   | 3.50E-05         | 1.03E-05      | 2.35E-09          |
| 195         | 4         | Subsurface   | Chromium    | mg/kg        | 5.08E+01   | 1.76E-04         | 8.64E-05      | 1.19E-08          |
| 195         | 4         | Subsurface   | Nickel      | mg/kg        | 8.37E+01   | 2.91E-04         | 1.14E-04      | 1.95E-08          |
| 195         | 4         | Subsurface   | Silver      | mg/kg        | 8.80E+00   | 3.06E-05         | 1.20E-05      | 2.06E-09          |
| 195         | 4         | Subsurface   | Thallium    | mg/kg        | 3.39E-01   | 1.18E-06         | 5.77E-07      | 7.92E-11          |
| 195         | 5         | Subsurface   | Arsenic     | mg/kg        | 8.80E+00   | 3.06E-05         | 8.98E-06      | 2.06E-09          |
| 195         | 5         | Subsurface   | Chromium    | mg/kg        | 5.74E+01   | 2.00E-04         | 9.77E-05      | 1.34E-08          |
| 195         | 5         | Subsurface   | Nickel      | mg/kg        | 8.11E+01   | 2.82E-04         | 1.10E-04      | 1.89E-08          |
| 195         | 5         | Subsurface   | Silver      | mg/kg        | 8.41E+00   | 2.92E-05         | 1.14E-05      | 1.96E-09          |
| 195         | 5         | Subsurface   | Thallium    | mg/kg        | 5.50E-01   | 1.91E-06         | 9.36E-07      | 1.28E-10          |
| 195         | 5         | Subsurface   | Total PAH   | mg/kg        | 2.40E-02   | 8.34E-08         | 1.06E-07      | 4.14E-10          |
| 195         | 6         | Subsurface   | Arsenic     | mg/kg        | 1.05E+01   | 3.65E-05         | 1.07E-05      | 2.45E-09          |
| 195         | 6         | Subsurface   | Chromium    | mg/kg        | 5.52E+01   | 1.92E-04         | 9.39E-05      | 1.29E-08          |
| 195         | 6         | Subsurface   | Nickel      | mg/kg        | 9.81E+01   | 3.41E-04         | 1.34E-04      | 2.29E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 195         | 6         | Subsurface   | Silver      | mg/kg        | 1.00E+01   | 3.48E-05         | 1.36E-05      | 2.34E-09          |
| 195         | 6         | Subsurface   | Total PAH   | mg/kg        | 1.91E-01   | 6.64E-07         | 8.45E-07      | 3.30E-09          |
| 195         | 7         | Subsurface   | Arsenic     | mg/kg        | 8.49E+00   | 2.95E-05         | 8.67E-06      | 1.98E-09          |
| 195         | 7         | Subsurface   | Chromium    | mg/kg        | 4.74E+01   | 1.65E-04         | 8.06E-05      | 1.11E-08          |
| 195         | 7         | Subsurface   | Cobalt      | mg/kg        | 1.13E+01   | 3.94E-05         | 1.93E-05      | 2.65E-09          |
| 195         | 7         | Subsurface   | Silver      | mg/kg        | 8.06E+00   | 2.80E-05         | 1.10E-05      | 1.88E-09          |
| 195         | 8         | Subsurface   | Arsenic     | mg/kg        | 1.12E+01   | 3.88E-05         | 1.14E-05      | 2.60E-09          |
| 195         | 8         | Subsurface   | Beryllium   | mg/kg        | 6.78E-01   | 2.36E-06         | 1.62E-07      | 1.58E-10          |
| 195         | 8         | Subsurface   | Chromium    | mg/kg        | 5.23E+01   | 1.82E-04         | 8.89E-05      | 1.22E-08          |
| 195         | 8         | Subsurface   | Cobalt      | mg/kg        | 1.41E+01   | 4.89E-05         | 2.39E-05      | 3.29E-09          |
| 195         | 8         | Subsurface   | Manganese   | mg/kg        | 6.90E+02   | 2.40E-03         | 9.40E-04      | 1.61E-07          |
| 195         | 8         | Subsurface   | Nickel      | mg/kg        | 8.93E+01   | 3.10E-04         | 1.22E-04      | 2.09E-08          |
| 195         | 8         | Subsurface   | Silver      | mg/kg        | 8.51E+00   | 2.96E-05         | 1.16E-05      | 1.99E-09          |
| 195         | 8         | Subsurface   | Total PAH   | mg/kg        | 1.42E-01   | 4.94E-07         | 6.28E-07      | 2.45E-09          |
| 195         | 8         | Subsurface   | Vanadium    | mg/kg        | 3.70E+01   | 1.28E-04         | 3.27E-05      | 8.64E-09          |
| 195         | 9         | Subsurface   | Arsenic     | mg/kg        | 1.03E+01   | 3.59E-05         | 1.05E-05      | 2.41E-09          |
| 195         | 9         | Subsurface   | Chromium    | mg/kg        | 6.08E+01   | 2.11E-04         | 1.03E-04      | 1.42E-08          |
| 195         | 9         | Subsurface   | Nickel      | mg/kg        | 9.12E+01   | 3.17E-04         | 1.24E-04      | 2.13E-08          |
| 195         | 9         | Subsurface   | Silver      | mg/kg        | 9.33E+00   | 3.24E-05         | 1.27E-05      | 2.18E-09          |
| 195         | 10        | Subsurface   | Arsenic     | mg/kg        | 9.83E+00   | 3.42E-05         | 1.00E-05      | 2.30E-09          |
| 195         | 10        | Subsurface   | Chromium    | mg/kg        | 4.29E+01   | 1.49E-04         | 7.29E-05      | 1.00E-08          |
| 195         | 10        | Subsurface   | Manganese   | mg/kg        | 3.79E+02   | 1.32E-03         | 5.15E-04      | 8.84E-08          |
| 195         | 10        | Subsurface   | Nickel      | mg/kg        | 7.98E+01   | 2.77E-04         | 1.09E-04      | 1.86E-08          |
| 195         | 10        | Subsurface   | Silver      | mg/kg        | 1.31E+01   | 4.56E-05         | 1.78E-05      | 3.06E-09          |
| 195         | 11        | Subsurface   | Aluminum    | mg/kg        | 1.93E+04   | 6.71E-02         | 3.29E-02      | 4.51E-06          |
| 195         | 11        | Subsurface   | Arsenic     | mg/kg        | 1.30E+01   | 4.50E-05         | 1.32E-05      | 3.02E-09          |
| 195         | 11        | Subsurface   | Barium      | mg/kg        | 3.18E+02   | 1.10E-03         | 5.40E-04      | 7.42E-08          |
| 195         | 11        | Subsurface   | Chromium    | mg/kg        | 5.67E+01   | 1.97E-04         | 9.65E-05      | 1.33E-08          |
| 195         | 11        | Subsurface   | Cobalt      | mg/kg        | 1.87E+01   | 6.49E-05         | 3.18E-05      | 4.36E-09          |
| 195         | 11        | Subsurface   | Iron        | mg/kg        | 2.10E+04   | 7.31E-02         | 3.58E-02      | 4.91E-06          |
| 195         | 11        | Subsurface   | Manganese   | mg/kg        | 5.25E+02   | 1.83E-03         | 7.15E-04      | 1.23E-07          |
| 195         | 11        | Subsurface   | Nickel      | mg/kg        | 8.37E+01   | 2.91E-04         | 1.14E-04      | 1.95E-08          |
| 195         | 11        | Subsurface   | Silver      | mg/kg        | 8.26E+00   | 2.87E-05         | 1.12E-05      | 1.93E-09          |
| 195         | 11        | Subsurface   | Thallium    | mg/kg        | 4.46E-01   | 1.55E-06         | 7.59E-07      | 1.04E-10          |
| 195         | 11        | Subsurface   | Total PAH   | mg/kg        | 2.83E-02   | 9.84E-08         | 1.25E-07      | 4.89E-10          |
| 195         | 11        | Subsurface   | Vanadium    | mg/kg        | 5.55E+01   | 1.93E-04         | 4.91E-05      | 1.30E-08          |
| 195         | 12        | Subsurface   | Arsenic     | mg/kg        | 1.08E+01   | 3.74E-05         | 1.10E-05      | 2.51E-09          |
| 195         | 12        | Subsurface   | Beryllium   | mg/kg        | 6.22E-01   | 2.16E-06         | 1.48E-07      | 1.45E-10          |
| 195         | 12        | Subsurface   | Chromium    | mg/kg        | 6.45E+01   | 2.24E-04         | 1.10E-04      | 1.51E-08          |
| 195         | 12        | Subsurface   | Manganese   | mg/kg        | 4.77E+02   | 1.66E-03         | 6.49E-04      | 1.11E-07          |
| 195         | 12        | Subsurface   | Nickel      | mg/kg        | 9.19E+01   | 3.19E-04         | 1.25E-04      | 2.15E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 195         | 12        | Subsurface   | Vanadium    | mg/kg        | 3.68E+01   | 1.28E-04         | 3.26E-05      | 8.59E-09          |
| 195         | 13        | Subsurface   | Arsenic     | mg/kg        | 9.12E+00   | 3.17E-05         | 9.31E-06      | 2.13E-09          |
| 195         | 13        | Subsurface   | Chromium    | mg/kg        | 5.23E+01   | 1.82E-04         | 8.89E-05      | 1.22E-08          |
| 195         | 13        | Subsurface   | Nickel      | mg/kg        | 8.34E+01   | 2.90E-04         | 1.14E-04      | 1.95E-08          |
| 195         | 13        | Subsurface   | Silver      | mg/kg        | 8.71E+00   | 3.03E-05         | 1.19E-05      | 2.03E-09          |
| 195         | 14        | Subsurface   | Arsenic     | mg/kg        | 1.02E+01   | 3.55E-05         | 1.04E-05      | 2.39E-09          |
| 195         | 14        | Subsurface   | Chromium    | mg/kg        | 5.94E+01   | 2.07E-04         | 1.01E-04      | 1.39E-08          |
| 195         | 14        | Subsurface   | Mercury     | mg/kg        | 6.49E+00   | 2.26E-05         | 1.10E-05      | 4.52E-05          |
| 195         | 14        | Subsurface   | Nickel      | mg/kg        | 8.22E+01   | 2.86E-04         | 1.12E-04      | 1.92E-08          |
| 195         | 14        | Subsurface   | Silver      | mg/kg        | 8.87E+00   | 3.08E-05         | 1.21E-05      | 2.07E-09          |
| 195         | 15        | Subsurface   | Arsenic     | mg/kg        | 9.15E+00   | 3.18E-05         | 9.34E-06      | 2.14E-09          |
| 195         | 15        | Subsurface   | Chromium    | mg/kg        | 5.34E+01   | 1.86E-04         | 9.09E-05      | 1.25E-08          |
| 195         | 16        | Subsurface   | Chromium    | mg/kg        | 5.22E+01   | 1.81E-04         | 8.89E-05      | 1.22E-08          |
| 195         | 16        | Subsurface   | Manganese   | mg/kg        | 3.87E+02   | 1.34E-03         | 5.27E-04      | 9.04E-08          |
| 195         | 16        | Subsurface   | Mercury     | mg/kg        | 8.43E+00   | 2.93E-05         | 1.43E-05      | 5.87E-05          |
| 195         | 16        | Subsurface   | Nickel      | mg/kg        | 8.59E+01   | 2.98E-04         | 1.17E-04      | 2.01E-08          |
| 195         | 17        | Subsurface   | Arsenic     | mg/kg        | 9.36E+00   | 3.25E-05         | 9.56E-06      | 2.19E-09          |
| 195         | 17        | Subsurface   | Chromium    | mg/kg        | 6.77E+01   | 2.35E-04         | 1.15E-04      | 1.58E-08          |
| 195         | 17        | Subsurface   | Manganese   | mg/kg        | 5.02E+02   | 1.75E-03         | 6.84E-04      | 1.17E-07          |
| 195         | 17        | Subsurface   | Mercury     | mg/kg        | 7.24E+00   | 2.52E-05         | 1.23E-05      | 5.04E-05          |
| 195         | 17        | Subsurface   | Nickel      | mg/kg        | 7.09E+01   | 2.46E-04         | 9.65E-05      | 1.66E-08          |
| 195         | 17        | Subsurface   | PCB, Total  | mg/kg        | 7.40E-01   | 2.57E-06         | 3.53E-06      | 2.91E-07          |
| 195         | 17        | Subsurface   | Silver      | mg/kg        | 1.20E+01   | 4.16E-05         | 1.63E-05      | 2.80E-09          |
| 195         | 17        | Subsurface   | Thallium    | mg/kg        | 4.82E-01   | 1.68E-06         | 8.20E-07      | 1.13E-10          |
| 195         | 17        | Subsurface   | Total PAH   | mg/kg        | 2.05E-01   | 7.12E-07         | 9.07E-07      | 3.54E-09          |
| 492         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.47E+01   | 5.11E-05         | 1.50E-05      | 3.43E-09          |
| 492         | 1         | Subsurface   | Beryllium   | mg/kg        | 1.04E+01   | 3.61E-05         | 2.48E-06      | 2.43E-09          |
| 492         | 1         | Subsurface   | Cadmium     | mg/kg        | 3.14E+00   | 1.09E-05         | 1.07E-07      | 7.33E-10          |
| 492         | 1         | Subsurface   | Chromium    | mg/kg        | 1.04E+03   | 3.61E-03         | 1.77E-03      | 2.43E-07          |
| 492         | 1         | Subsurface   | PCB, Total  | mg/kg        | 4.41E+01   | 1.53E-04         | 2.10E-04      | 1.74E-05          |
| 492         | 1         | Subsurface   | Uranium     | mg/kg        | 1.77E+03   | 6.15E-03         | 3.01E-03      | 4.13E-07          |
| 492         | 1         | Subsurface   | Vanadium    | mg/kg        | 4.32E+01   | 1.50E-04         | 3.82E-05      | 1.01E-08          |
| 493         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.44E+04   | 5.00E-02         | 2.45E-02      | 3.36E-06          |
| 493         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.18E+01   | 4.10E-05         | 1.20E-05      | 2.76E-09          |
| 493         | 1         | Subsurface   | Barium      | mg/kg        | 4.04E+02   | 1.40E-03         | 6.87E-04      | 9.44E-08          |
| 493         | 1         | Subsurface   | Beryllium   | mg/kg        | 9.91E-01   | 3.44E-06         | 2.36E-07      | 2.31E-10          |
| 493         | 1         | Subsurface   | Chromium    | mg/kg        | 6.61E+01   | 2.30E-04         | 1.12E-04      | 1.54E-08          |
| 493         | 1         | Subsurface   | Cobalt      | mg/kg        | 3.79E+01   | 1.32E-04         | 6.45E-05      | 8.85E-09          |
| 493         | 1         | Subsurface   | Manganese   | mg/kg        | 3.55E+03   | 1.23E-02         | 4.83E-03      | 8.29E-07          |
| 493         | 1         | Subsurface   | Mercury     | mg/kg        | 2.60E-01   | 9.04E-07         | 4.42E-07      | 1.81E-06          |
| 493         | 1         | Subsurface   | Nickel      | mg/kg        | 2.13E+02   | 7.40E-04         | 2.90E-04      | 4.98E-08          |

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

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 493         | 1         | Subsurface   | PCB, Total  | mg/kg        | 2.60E-01   | 9.04E-07         | 1.24E-06      | 1.02E-07          |
| 493         | 1         | Subsurface   | Thallium    | mg/kg        | 6.90E-01   | 2.40E-06         | 1.17E-06      | 1.61E-10          |
| 493         | 1         | Subsurface   | Total PAH   | mg/kg        | 5.00E-01   | 1.74E-06         | 2.21E-06      | 8.64E-09          |
| 493         | 1         | Subsurface   | Vanadium    | mg/kg        | 4.05E+01   | 1.41E-04         | 3.58E-05      | 9.46E-09          |
| 517         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.20E+04   | 4.17E-02         | 2.04E-02      | 2.80E-06          |
| 517         | 1         | Subsurface   | Beryllium   | mg/kg        | 7.39E-01   | 2.57E-06         | 1.76E-07      | 1.73E-10          |
| 517         | 1         | Subsurface   | Chromium    | mg/kg        | 4.91E+01   | 1.71E-04         | 8.35E-05      | 1.15E-08          |
| 517         | 1         | Subsurface   | Nickel      | mg/kg        | 1.72E+02   | 5.98E-04         | 2.34E-04      | 4.02E-08          |
| 517         | 1         | Subsurface   | PCB, Total  | mg/kg        | 5.00E-01   | 1.74E-06         | 2.38E-06      | 1.97E-07          |
| 517         | 1         | Subsurface   | Thallium    | mg/kg        | 4.20E-01   | 1.46E-06         | 7.15E-07      | 9.81E-11          |
| 541         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.49E+04   | 5.18E-02         | 2.54E-02      | 3.48E-06          |
| 541         | 1         | Subsurface   | Arsenic     | mg/kg        | 9.08E+00   | 3.16E-05         | 9.27E-06      | 2.12E-09          |
| 541         | 1         | Subsurface   | Barium      | mg/kg        | 1.36E+02   | 4.72E-04         | 2.31E-04      | 3.17E-08          |
| 541         | 1         | Subsurface   | Beryllium   | mg/kg        | 7.40E-01   | 2.57E-06         | 1.76E-07      | 1.73E-10          |
| 541         | 1         | Subsurface   | Cadmium     | mg/kg        | 1.60E+00   | 5.55E-06         | 5.43E-08      | 3.73E-10          |
| 541         | 1         | Subsurface   | Chromium    | mg/kg        | 9.44E+02   | 3.28E-03         | 1.61E-03      | 2.21E-07          |
| 541         | 1         | Subsurface   | Iron        | mg/kg        | 1.88E+04   | 6.54E-02         | 3.20E-02      | 4.40E-06          |
| 541         | 1         | Subsurface   | Manganese   | mg/kg        | 4.97E+02   | 1.73E-03         | 6.76E-04      | 1.16E-07          |
| 541         | 1         | Subsurface   | Mercury     | mg/kg        | 2.02E-01   | 7.02E-07         | 3.44E-07      | 1.41E-06          |
| 541         | 1         | Subsurface   | Naphthalene | mg/kg        | 6.53E-01   | 2.27E-06         | 5.56E-06      | 5.08E-06          |
| 541         | 1         | Subsurface   | Nickel      | mg/kg        | 1.58E+01   | 5.51E-05         | 2.16E-05      | 3.70E-09          |
| 541         | 1         | Subsurface   | PCB, Total  | mg/kg        | 6.18E+01   | 2.15E-04         | 2.94E-04      | 2.43E-05          |
| 541         | 1         | Subsurface   | Total PAH   | mg/kg        | 3.15E+00   | 1.10E-05         | 1.39E-05      | 5.44E-08          |
| 541         | 1         | Subsurface   | Uranium     | mg/kg        | 7.39E+03   | 2.57E-02         | 1.26E-02      | 1.73E-06          |
| 541         | 1         | Subsurface   | Vanadium    | mg/kg        | 3.54E+01   | 1.23E-04         | 3.13E-05      | 8.26E-09          |
| 561         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.76E+04   | 6.12E-02         | 2.99E-02      | 4.11E-06          |
| 561         | 1         | Subsurface   | Antimony    | mg/kg        | 8.95E-01   | 3.11E-06         | 1.52E-06      | 2.09E-10          |
| 561         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.63E+01   | 5.68E-05         | 1.67E-05      | 3.82E-09          |
| 561         | 1         | Subsurface   | Barium      | mg/kg        | 1.44E+02   | 4.99E-04         | 2.45E-04      | 3.36E-08          |
| 561         | 1         | Subsurface   | Beryllium   | mg/kg        | 6.74E-01   | 2.34E-06         | 1.61E-07      | 1.57E-10          |
| 561         | 1         | Subsurface   | Chromium    | mg/kg        | 9.00E+01   | 3.13E-04         | 1.53E-04      | 2.10E-08          |
| 561         | 1         | Subsurface   | Cobalt      | mg/kg        | 1.10E+01   | 3.83E-05         | 1.88E-05      | 2.58E-09          |
| 561         | 1         | Subsurface   | Iron        | mg/kg        | 2.07E+04   | 7.21E-02         | 3.53E-02      | 4.84E-06          |
| 561         | 1         | Subsurface   | Manganese   | mg/kg        | 1.81E+03   | 6.28E-03         | 2.46E-03      | 4.22E-07          |
| 561         | 1         | Subsurface   | Nickel      | mg/kg        | 1.49E+01   | 5.19E-05         | 2.03E-05      | 3.49E-09          |
| 561         | 1         | Subsurface   | PCB, Total  | mg/kg        | 1.01E+00   | 3.50E-06         | 4.80E-06      | 3.97E-07          |
| 561         | 1         | Subsurface   | Thallium    | mg/kg        | 3.27E-01   | 1.14E-06         | 5.56E-07      | 7.64E-11          |
| 561         | 1         | Subsurface   | Total PAH   | mg/kg        | 7.79E-01   | 2.71E-06         | 3.45E-06      | 1.35E-08          |
| 561         | 1         | Subsurface   | Uranium     | mg/kg        | 2.65E+02   | 9.19E-04         | 4.50E-04      | 6.18E-08          |
| 561         | 1         | Subsurface   | Vanadium    | mg/kg        | 3.94E+01   | 1.37E-04         | 3.49E-05      | 9.20E-09          |
| 561         | 2         | Subsurface   | Aluminum    | mg/kg        | 8.86E+03   | 3.08E-02         | 1.51E-02      | 2.07E-06          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 561         | 2         | Subsurface   | Antimony    | mg/kg        | 5.09E+00   | 1.77E-05         | 8.66E-06      | 1.19E-09          |
| 561         | 2         | Subsurface   | Arsenic     | mg/kg        | 1.27E+01   | 4.41E-05         | 1.29E-05      | 2.96E-09          |
| 561         | 2         | Subsurface   | Beryllium   | mg/kg        | 6.21E-01   | 2.16E-06         | 1.48E-07      | 1.45E-10          |
| 561         | 2         | Subsurface   | Cadmium     | mg/kg        | 3.95E-01   | 1.37E-06         | 1.34E-08      | 9.23E-11          |
| 561         | 2         | Subsurface   | Chromium    | mg/kg        | 3.07E+02   | 1.07E-03         | 5.22E-04      | 7.17E-08          |
| 561         | 2         | Subsurface   | Cobalt      | mg/kg        | 1.09E+01   | 3.79E-05         | 1.85E-05      | 2.55E-09          |
| 561         | 2         | Subsurface   | Manganese   | mg/kg        | 1.07E+03   | 3.70E-03         | 1.45E-03      | 2.49E-07          |
| 561         | 2         | Subsurface   | PCB, Total  | mg/kg        | 1.67E+01   | 5.80E-05         | 7.95E-05      | 6.57E-06          |
| 561         | 2         | Subsurface   | Thallium    | mg/kg        | 3.83E-01   | 1.33E-06         | 6.52E-07      | 8.95E-11          |
| 561         | 2         | Subsurface   | Total PAH   | mg/kg        | 2.30E+00   | 7.98E-06         | 1.02E-05      | 3.97E-08          |
| 561         | 2         | Subsurface   | Uranium     | mg/kg        | 1.41E+03   | 4.88E-03         | 2.39E-03      | 3.28E-07          |
| 561         | 2         | Subsurface   | Vanadium    | mg/kg        | 3.32E+01   | 1.15E-04         | 2.94E-05      | 7.76E-09          |
| 562         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.18E+01   | 4.10E-05         | 1.20E-05      | 2.76E-09          |
| 562         | 1         | Subsurface   | Chromium    | mg/kg        | 3.15E+02   | 1.09E-03         | 5.36E-04      | 7.36E-08          |
| 562         | 1         | Subsurface   | PCB, Total  | mg/kg        | 2.01E+00   | 6.99E-06         | 9.58E-06      | 7.91E-07          |
| 562         | 1         | Subsurface   | Uranium     | mg/kg        | 2.27E+02   | 7.88E-04         | 3.86E-04      | 5.30E-08          |
| 562         | 2         | Subsurface   | PCB, Total  | mg/kg        | 1.58E+00   | 5.49E-06         | 7.53E-06      | 6.22E-07          |
| 562         | 3         | Subsurface   | PCB, Total  | mg/kg        | 2.40E-01   | 8.34E-07         | 1.14E-06      | 9.45E-08          |
| 562         | 3         | Subsurface   | Total PAH   | mg/kg        | 2.20E-01   | 7.65E-07         | 9.73E-07      | 3.80E-09          |
| 562         | 3         | Subsurface   | Uranium     | mg/kg        | 5.89E+01   | 2.05E-04         | 1.00E-04      | 1.38E-08          |
| 562         | 4         | Subsurface   | Chromium    | mg/kg        | 4.67E+01   | 1.62E-04         | 7.94E-05      | 1.09E-08          |
| 562         | 4         | Subsurface   | Uranium     | mg/kg        | 2.10E+01   | 7.30E-05         | 3.57E-05      | 4.90E-09          |
| 562         | 5         | Subsurface   | Chromium    | mg/kg        | 1.53E+02   | 5.32E-04         | 2.61E-04      | 3.58E-08          |
| 562         | 5         | Subsurface   | PCB, Total  | mg/kg        | 9.50E-01   | 3.30E-06         | 4.53E-06      | 3.74E-07          |
| 562         | 5         | Subsurface   | Total PAH   | mg/kg        | 7.05E-02   | 2.45E-07         | 3.12E-07      | 1.22E-09          |
| 562         | 5         | Subsurface   | Uranium     | mg/kg        | 2.08E+02   | 7.23E-04         | 3.54E-04      | 4.86E-08          |
| 563         | 1         | Subsurface   | Cadmium     | mg/kg        | 8.96E-01   | 3.11E-06         | 3.05E-08      | 2.09E-10          |
| 563         | 1         | Subsurface   | Chromium    | mg/kg        | 3.34E+02   | 1.16E-03         | 5.68E-04      | 7.80E-08          |
| 563         | 1         | Subsurface   | PCB, Total  | mg/kg        | 3.54E+00   | 1.23E-05         | 1.69E-05      | 1.39E-06          |
| 563         | 1         | Subsurface   | Uranium     | mg/kg        | 1.51E+01   | 5.24E-05         | 2.57E-05      | 3.52E-09          |
| 564         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.27E+04   | 4.41E-02         | 2.16E-02      | 2.97E-06          |
| 564         | 1         | Subsurface   | Arsenic     | mg/kg        | 4.30E+01   | 1.49E-04         | 4.39E-05      | 1.00E-08          |
| 564         | 1         | Subsurface   | Beryllium   | mg/kg        | 2.12E+00   | 7.37E-06         | 5.05E-07      | 4.95E-10          |
| 564         | 1         | Subsurface   | Cadmium     | mg/kg        | 1.96E+00   | 6.81E-06         | 6.67E-08      | 4.58E-10          |
| 564         | 1         | Subsurface   | Chromium    | mg/kg        | 8.32E+01   | 2.89E-04         | 1.42E-04      | 1.94E-08          |
| 564         | 1         | Subsurface   | Iron        | mg/kg        | 3.66E+04   | 1.27E-01         | 6.23E-02      | 8.55E-06          |
| 564         | 1         | Subsurface   | Mercury     | mg/kg        | 2.30E-01   | 7.99E-07         | 3.91E-07      | 1.60E-06          |
| 564         | 1         | Subsurface   | Nickel      | mg/kg        | 2.24E+01   | 7.79E-05         | 3.05E-05      | 5.23E-09          |
| 564         | 1         | Subsurface   | PCB, Total  | mg/kg        | 1.93E+00   | 6.71E-06         | 9.20E-06      | 7.60E-07          |
| 564         | 1         | Subsurface   | Thallium    | mg/kg        | 2.36E+00   | 8.20E-06         | 4.02E-06      | 5.51E-10          |
| 564         | 1         | Subsurface   | Uranium     | mg/kg        | 5.83E+01   | 2.03E-04         | 9.92E-05      | 1.36E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 564         | 1         | Subsurface   | Vanadium    | mg/kg        | 8.06E+01   | 2.80E-04         | 7.13E-05      | 1.88E-08          |
| 567         | 1         | Subsurface   | Aluminum    | mg/kg        | 1.29E+04   | 4.48E-02         | 2.20E-02      | 3.01E-06          |
| 567         | 1         | Subsurface   | Manganese   | mg/kg        | 1.32E+03   | 4.59E-03         | 1.80E-03      | 3.08E-07          |
| 567         | 3         | Subsurface   | Chromium    | mg/kg        | 5.21E+01   | 1.81E-04         | 8.87E-05      | 1.22E-08          |
| 567         | 4         | Subsurface   | Aluminum    | mg/kg        | 1.25E+04   | 4.35E-02         | 2.13E-02      | 2.92E-06          |
| 567         | 4         | Subsurface   | Arsenic     | mg/kg        | 1.09E+01   | 3.78E-05         | 1.11E-05      | 2.54E-09          |
| 14          | 1         | Subsurface   | Antimony    | mg/kg        | 6.30E-01   | 2.19E-06         | 1.07E-06      | 1.47E-10          |
| 14          | 1         | Subsurface   | Arsenic     | mg/kg        | 1.13E+01   | 3.91E-05         | 1.15E-05      | 2.63E-09          |
| 14          | 1         | Subsurface   | Beryllium   | mg/kg        | 6.84E-01   | 2.38E-06         | 1.63E-07      | 1.60E-10          |
| 14          | 1         | Subsurface   | Chromium    | mg/kg        | 6.56E+01   | 2.28E-04         | 1.12E-04      | 1.53E-08          |
| 14          | 1         | Subsurface   | Iron        | mg/kg        | 4.24E+04   | 1.47E-01         | 7.22E-02      | 9.90E-06          |
| 14          | 1         | Subsurface   | Manganese   | mg/kg        | 8.41E+02   | 2.92E-03         | 1.14E-03      | 1.96E-07          |
| 14          | 1         | Subsurface   | Nickel      | mg/kg        | 7.40E+02   | 2.57E-03         | 1.01E-03      | 1.73E-07          |
| 14          | 1         | Subsurface   | PCB, Total  | mg/kg        | 5.00E-01   | 1.74E-06         | 2.38E-06      | 1.97E-07          |
| 14          | 1         | Subsurface   | Silver      | mg/kg        | 1.67E+01   | 5.80E-05         | 2.27E-05      | 3.90E-09          |
| 14          | 1         | Subsurface   | Uranium     | mg/kg        | 2.56E+02   | 8.91E-04         | 4.36E-04      | 5.99E-08          |
| 14          | 1         | Subsurface   | Vanadium    | mg/kg        | 2.99E+01   | 1.04E-04         | 2.65E-05      | 6.99E-09          |
| 14          | 2         | Subsurface   | Aluminum    | mg/kg        | 1.00E+04   | 3.48E-02         | 1.70E-02      | 2.34E-06          |
| 14          | 2         | Subsurface   | Antimony    | mg/kg        | 3.51E+00   | 1.22E-05         | 5.96E-06      | 8.19E-10          |
| 14          | 2         | Subsurface   | Arsenic     | mg/kg        | 1.47E+01   | 5.12E-05         | 1.50E-05      | 3.44E-09          |
| 14          | 2         | Subsurface   | Beryllium   | mg/kg        | 6.75E-01   | 2.35E-06         | 1.61E-07      | 1.58E-10          |
| 14          | 2         | Subsurface   | Cadmium     | mg/kg        | 1.75E+00   | 6.08E-06         | 5.96E-08      | 4.09E-10          |
| 14          | 2         | Subsurface   | Chromium    | mg/kg        | 7.24E+01   | 2.51E-04         | 1.23E-04      | 1.69E-08          |
| 14          | 2         | Subsurface   | Copper      | mg/kg        | 1.92E+02   | 6.68E-04         | 3.27E-04      | 4.49E-08          |
| 14          | 2         | Subsurface   | Iron        | mg/kg        | 4.38E+04   | 1.52E-01         | 7.45E-02      | 1.02E-05          |
| 14          | 2         | Subsurface   | Manganese   | mg/kg        | 1.51E+03   | 5.24E-03         | 2.05E-03      | 3.52E-07          |
| 14          | 2         | Subsurface   | Mercury     | mg/kg        | 8.88E+00   | 3.09E-05         | 1.51E-05      | 6.18E-05          |
| 14          | 2         | Subsurface   | Nickel      | mg/kg        | 8.41E+02   | 2.92E-03         | 1.14E-03      | 1.96E-07          |
| 14          | 2         | Subsurface   | PCB, Total  | mg/kg        | 5.00E+00   | 1.74E-05         | 2.38E-05      | 1.97E-06          |
| 14          | 2         | Subsurface   | Selenium    | mg/kg        | 2.74E+01   | 9.52E-05         | 4.66E-05      | 6.40E-09          |
| 14          | 2         | Subsurface   | Silver      | mg/kg        | 9.58E+00   | 3.33E-05         | 1.30E-05      | 2.24E-09          |
| 14          | 2         | Subsurface   | Total PAH   | mg/kg        | 2.31E-01   | 8.03E-07         | 1.02E-06      | 3.99E-09          |
| 14          | 2         | Subsurface   | Uranium     | mg/kg        | 3.64E+02   | 1.27E-03         | 6.20E-04      | 8.51E-08          |
| 14          | 3         | Subsurface   | Arsenic     | mg/kg        | 1.91E+01   | 6.62E-05         | 1.94E-05      | 4.45E-09          |
| 14          | 3         | Subsurface   | Beryllium   | mg/kg        | 2.07E+00   | 7.20E-06         | 4.94E-07      | 4.84E-10          |
| 14          | 3         | Subsurface   | Chromium    | mg/kg        | 7.01E+01   | 2.44E-04         | 1.19E-04      | 1.64E-08          |
| 14          | 3         | Subsurface   | Cobalt      | mg/kg        | 1.63E+01   | 5.65E-05         | 2.77E-05      | 3.80E-09          |
| 14          | 3         | Subsurface   | Copper      | mg/kg        | 1.30E+02   | 4.50E-04         | 2.21E-04      | 3.03E-08          |
| 14          | 3         | Subsurface   | Iron        | mg/kg        | 4.64E+04   | 1.61E-01         | 7.90E-02      | 1.08E-05          |
| 14          | 3         | Subsurface   | Manganese   | mg/kg        | 1.24E+03   | 4.30E-03         | 1.68E-03      | 2.89E-07          |
| 14          | 3         | Subsurface   | Mercury     | mg/kg        | 7.48E+00   | 2.60E-05         | 1.27E-05      | 5.21E-05          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 3         | Subsurface   | Molybdenum  | mg/kg        | 2.23E+01   | 7.76E-05         | 3.80E-05      | 5.21E-09          |
| 14          | 3         | Subsurface   | Nickel      | mg/kg        | 6.64E+02   | 2.31E-03         | 9.03E-04      | 1.55E-07          |
| 14          | 3         | Subsurface   | PCB, Total  | mg/kg        | 8.75E+00   | 3.04E-05         | 4.17E-05      | 3.45E-06          |
| 14          | 3         | Subsurface   | Silver      | mg/kg        | 1.34E+01   | 4.66E-05         | 1.83E-05      | 3.13E-09          |
| 14          | 3         | Subsurface   | Uranium     | mg/kg        | 2.19E+02   | 7.60E-04         | 3.72E-04      | 5.11E-08          |
| 14          | 3         | Subsurface   | Vanadium    | mg/kg        | 6.19E+01   | 2.15E-04         | 5.48E-05      | 1.45E-08          |
| 14          | 4         | Subsurface   | Aluminum    | mg/kg        | 1.18E+04   | 4.09E-02         | 2.00E-02      | 2.75E-06          |
| 14          | 4         | Subsurface   | Antimony    | mg/kg        | 3.29E+00   | 1.14E-05         | 5.59E-06      | 7.68E-10          |
| 14          | 4         | Subsurface   | Arsenic     | mg/kg        | 1.24E+01   | 4.32E-05         | 1.27E-05      | 2.91E-09          |
| 14          | 4         | Subsurface   | Chromium    | mg/kg        | 5.66E+01   | 1.97E-04         | 9.62E-05      | 1.32E-08          |
| 14          | 4         | Subsurface   | Cobalt      | mg/kg        | 1.46E+01   | 5.08E-05         | 2.49E-05      | 3.41E-09          |
| 14          | 4         | Subsurface   | Copper      | mg/kg        | 3.59E+02   | 1.25E-03         | 6.10E-04      | 8.38E-08          |
| 14          | 4         | Subsurface   | Iron        | mg/kg        | 3.89E+04   | 1.35E-01         | 6.61E-02      | 9.07E-06          |
| 14          | 4         | Subsurface   | Manganese   | mg/kg        | 9.96E+02   | 3.46E-03         | 1.36E-03      | 2.33E-07          |
| 14          | 4         | Subsurface   | Mercury     | mg/kg        | 8.00E+00   | 2.78E-05         | 1.36E-05      | 5.57E-05          |
| 14          | 4         | Subsurface   | Nickel      | mg/kg        | 7.31E+02   | 2.54E-03         | 9.94E-04      | 1.71E-07          |
| 14          | 4         | Subsurface   | PCB, Total  | mg/kg        | 8.28E+00   | 2.88E-05         | 3.95E-05      | 3.26E-06          |
| 14          | 4         | Subsurface   | Silver      | mg/kg        | 1.17E+01   | 4.07E-05         | 1.59E-05      | 2.73E-09          |
| 14          | 4         | Subsurface   | Total PAH   | mg/kg        | 1.89E-01   | 6.57E-07         | 8.36E-07      | 3.26E-09          |
| 14          | 4         | Subsurface   | Uranium     | mg/kg        | 3.72E+02   | 1.29E-03         | 6.33E-04      | 8.68E-08          |
| 14          | 5         | Subsurface   | Antimony    | mg/kg        | 1.60E+00   | 5.57E-06         | 2.73E-06      | 3.75E-10          |
| 14          | 5         | Subsurface   | Arsenic     | mg/kg        | 1.27E+01   | 4.40E-05         | 1.29E-05      | 2.95E-09          |
| 14          | 5         | Subsurface   | Beryllium   | mg/kg        | 7.93E-01   | 2.76E-06         | 1.89E-07      | 1.85E-10          |
| 14          | 5         | Subsurface   | Cadmium     | mg/kg        | 2.59E+00   | 8.98E-06         | 8.80E-08      | 6.04E-10          |
| 14          | 5         | Subsurface   | Chromium    | mg/kg        | 4.70E+01   | 1.63E-04         | 7.99E-05      | 1.10E-08          |
| 14          | 5         | Subsurface   | Cobalt      | mg/kg        | 1.11E+01   | 3.85E-05         | 1.89E-05      | 2.59E-09          |
| 14          | 5         | Subsurface   | Copper      | mg/kg        | 1.34E+02   | 4.64E-04         | 2.27E-04      | 3.12E-08          |
| 14          | 5         | Subsurface   | Iron        | mg/kg        | 3.93E+04   | 1.37E-01         | 6.70E-02      | 9.19E-06          |
| 14          | 5         | Subsurface   | Manganese   | mg/kg        | 1.06E+03   | 3.68E-03         | 1.44E-03      | 2.47E-07          |
| 14          | 5         | Subsurface   | Mercury     | mg/kg        | 1.09E+01   | 3.80E-05         | 1.86E-05      | 7.62E-05          |
| 14          | 5         | Subsurface   | Nickel      | mg/kg        | 4.63E+02   | 1.61E-03         | 6.30E-04      | 1.08E-07          |
| 14          | 5         | Subsurface   | PCB, Total  | mg/kg        | 7.64E+00   | 2.65E-05         | 3.64E-05      | 3.01E-06          |
| 14          | 5         | Subsurface   | Silver      | mg/kg        | 1.29E+01   | 4.47E-05         | 1.75E-05      | 3.01E-09          |
| 14          | 5         | Subsurface   | Thallium    | mg/kg        | 3.52E-01   | 1.22E-06         | 5.99E-07      | 8.22E-11          |
| 14          | 5         | Subsurface   | Total PAH   | mg/kg        | 9.48E-02   | 3.29E-07         | 4.19E-07      | 1.64E-09          |
| 14          | 5         | Subsurface   | Uranium     | mg/kg        | 2.62E+02   | 9.12E-04         | 4.46E-04      | 6.13E-08          |
| 14          | 5         | Subsurface   | Vanadium    | mg/kg        | 3.68E+01   | 1.28E-04         | 3.26E-05      | 8.60E-09          |
| 14          | 6         | Subsurface   | Antimony    | mg/kg        | 2.13E+00   | 7.40E-06         | 3.62E-06      | 4.97E-10          |
| 14          | 6         | Subsurface   | Arsenic     | mg/kg        | 1.05E+01   | 3.65E-05         | 1.07E-05      | 2.45E-09          |
| 14          | 6         | Subsurface   | Cadmium     | mg/kg        | 6.57E-01   | 2.28E-06         | 2.24E-08      | 1.53E-10          |
| 14          | 6         | Subsurface   | Chromium    | mg/kg        | 4.39E+02   | 1.53E-03         | 7.48E-04      | 1.03E-07          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 6         | Subsurface   | Copper      | mg/kg        | 1.22E+02   | 4.25E-04         | 2.08E-04      | 2.86E-08          |
| 14          | 6         | Subsurface   | Manganese   | mg/kg        | 6.55E+02   | 2.27E-03         | 8.91E-04      | 1.53E-07          |
| 14          | 6         | Subsurface   | Mercury     | mg/kg        | 3.47E-01   | 1.21E-06         | 5.90E-07      | 2.42E-06          |
| 14          | 6         | Subsurface   | Nickel      | mg/kg        | 9.63E+02   | 3.35E-03         | 1.31E-03      | 2.25E-07          |
| 14          | 6         | Subsurface   | PCB, Total  | mg/kg        | 5.00E+00   | 1.74E-05         | 2.38E-05      | 1.97E-06          |
| 14          | 6         | Subsurface   | Silver      | mg/kg        | 1.47E+01   | 5.09E-05         | 1.99E-05      | 3.42E-09          |
| 14          | 6         | Subsurface   | Uranium     | mg/kg        | 5.77E+02   | 2.00E-03         | 9.81E-04      | 1.35E-07          |
| 14          | 7         | Subsurface   | Antimony    | mg/kg        | 6.02E-01   | 2.09E-06         | 1.02E-06      | 1.41E-10          |
| 14          | 7         | Subsurface   | Arsenic     | mg/kg        | 1.12E+01   | 3.90E-05         | 1.15E-05      | 2.62E-09          |
| 14          | 7         | Subsurface   | Cadmium     | mg/kg        | 2.11E+00   | 7.33E-06         | 7.18E-08      | 4.93E-10          |
| 14          | 7         | Subsurface   | Chromium    | mg/kg        | 6.46E+01   | 2.24E-04         | 1.10E-04      | 1.51E-08          |
| 14          | 7         | Subsurface   | Manganese   | mg/kg        | 5.99E+02   | 2.08E-03         | 8.16E-04      | 1.40E-07          |
| 14          | 7         | Subsurface   | Mercury     | mg/kg        | 7.82E+00   | 2.72E-05         | 1.33E-05      | 5.44E-05          |
| 14          | 7         | Subsurface   | Nickel      | mg/kg        | 1.22E+03   | 4.25E-03         | 1.66E-03      | 2.86E-07          |
| 14          | 7         | Subsurface   | PCB, Total  | mg/kg        | 7.60E+00   | 2.64E-05         | 3.62E-05      | 2.99E-06          |
| 14          | 7         | Subsurface   | Silver      | mg/kg        | 1.63E+01   | 5.65E-05         | 2.21E-05      | 3.80E-09          |
| 14          | 7         | Subsurface   | Total PAH   | mg/kg        | 4.88E-02   | 1.70E-07         | 2.16E-07      | 8.43E-10          |
| 14          | 7         | Subsurface   | Uranium     | mg/kg        | 3.33E+02   | 1.16E-03         | 5.66E-04      | 7.78E-08          |
| 14          | 8         | Subsurface   | Antimony    | mg/kg        | 5.01E-01   | 1.74E-06         | 8.52E-07      | 1.17E-10          |
| 14          | 8         | Subsurface   | Arsenic     | mg/kg        | 1.22E+01   | 4.23E-05         | 1.24E-05      | 2.84E-09          |
| 14          | 8         | Subsurface   | Chromium    | mg/kg        | 5.14E+01   | 1.79E-04         | 8.75E-05      | 1.20E-08          |
| 14          | 8         | Subsurface   | Copper      | mg/kg        | 1.17E+02   | 4.07E-04         | 1.99E-04      | 2.73E-08          |
| 14          | 8         | Subsurface   | Mercury     | mg/kg        | 8.70E+00   | 3.02E-05         | 1.48E-05      | 6.06E-05          |
| 14          | 8         | Subsurface   | Nickel      | mg/kg        | 6.73E+02   | 2.34E-03         | 9.15E-04      | 1.57E-07          |
| 14          | 8         | Subsurface   | PCB, Total  | mg/kg        | 5.00E+00   | 1.74E-05         | 2.38E-05      | 1.97E-06          |
| 14          | 8         | Subsurface   | Silver      | mg/kg        | 1.18E+01   | 4.10E-05         | 1.61E-05      | 2.76E-09          |
| 14          | 8         | Subsurface   | Total PAH   | mg/kg        | 4.13E-02   | 1.44E-07         | 1.83E-07      | 7.13E-10          |
| 14          | 8         | Subsurface   | Uranium     | mg/kg        | 4.05E+02   | 1.41E-03         | 6.90E-04      | 9.47E-08          |
| 14          | 9         | Subsurface   | Antimony    | mg/kg        | 2.00E+00   | 6.95E-06         | 3.40E-06      | 4.67E-10          |
| 14          | 9         | Subsurface   | Arsenic     | mg/kg        | 1.39E+01   | 4.82E-05         | 1.42E-05      | 3.24E-09          |
| 14          | 9         | Subsurface   | Cadmium     | mg/kg        | 9.40E-01   | 3.27E-06         | 3.20E-08      | 2.20E-10          |
| 14          | 9         | Subsurface   | Chromium    | mg/kg        | 4.64E+01   | 1.61E-04         | 7.90E-05      | 1.08E-08          |
| 14          | 9         | Subsurface   | Mercury     | mg/kg        | 1.13E+00   | 3.93E-06         | 1.92E-06      | 7.87E-06          |
| 14          | 9         | Subsurface   | Nickel      | mg/kg        | 9.43E+02   | 3.28E-03         | 1.28E-03      | 2.20E-07          |
| 14          | 9         | Subsurface   | PCB, Total  | mg/kg        | 6.84E+00   | 2.38E-05         | 3.26E-05      | 2.69E-06          |
| 14          | 9         | Subsurface   | Total PAH   | mg/kg        | 4.87E-01   | 1.69E-06         | 2.16E-06      | 8.42E-09          |
| 14          | 9         | Subsurface   | Uranium     | mg/kg        | 1.46E+03   | 5.09E-03         | 2.49E-03      | 3.42E-07          |
| 14          | 10        | Subsurface   | Antimony    | mg/kg        | 8.55E-01   | 2.97E-06         | 1.45E-06      | 2.00E-10          |
| 14          | 10        | Subsurface   | Arsenic     | mg/kg        | 1.15E+01   | 4.00E-05         | 1.18E-05      | 2.69E-09          |
| 14          | 10        | Subsurface   | Barium      | mg/kg        | 1.39E+02   | 4.83E-04         | 2.37E-04      | 3.25E-08          |
| 14          | 10        | Subsurface   | Chromium    | mg/kg        | 4.47E+01   | 1.55E-04         | 7.61E-05      | 1.04E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation |
|------|----|------------|------------|-------|----------|-----------|----------|------------|
| 14   | 10 | Subsurface | Copper     | mg/kg | 1.37E+02 | 4.76E-04  | 2.33E-04 | 3.20E-08   |
| 14   | 10 | Subsurface | Iron       | mg/kg | 2.69E+04 | 9.36E-02  | 4.58E-02 | 6.29E-06   |
| 14   | 10 | Subsurface | Manganese  | mg/kg | 7.11E+02 | 2.47E-03  | 9.67E-04 | 1.66E-07   |
| 14   | 10 | Subsurface | Mercury    | mg/kg | 2.49E+01 | 8.65E-05  | 4.24E-05 | 1.73E-04   |
| 14   | 10 | Subsurface | Nickel     | mg/kg | 5.80E+02 | 2.01E-03  | 7.89E-04 | 1.35E-07   |
| 14   | 10 | Subsurface | PCB, Total | mg/kg | 9.32E+00 | 3.24E-05  | 4.44E-05 | 3.67E-06   |
| 14   | 10 | Subsurface | Silver     | mg/kg | 1.07E+01 | 3.72E-05  | 1.46E-05 | 2.50E-09   |
| 14   | 10 | Subsurface | Total PAH  | mg/kg | 2.10E-01 | 7.30E-07  | 9.29E-07 | 3.63E-09   |
| 14   | 10 | Subsurface | Uranium    | mg/kg | 2.80E+02 | 9.71E-04  | 4.76E-04 | 6.53E-08   |
| 518  | 1  | Subsurface | Arsenic    | mg/kg | 6.45E+00 | 2.24E-05  | 6.58E-06 | 1.51E-09   |
| 518  | 1  | Subsurface | Carbazole  | mg/kg | 1.17E+01 | 4.07E-05  | 3.99E-05 | 1.27E-06   |
| 518  | 1  | Subsurface | Cobalt     | mg/kg | 6.80E+00 | 2.36E-05  | 1.16E-05 | 1.59E-09   |
| 518  | 1  | Subsurface | Nickel     | mg/kg | 1.29E+01 | 4.47E-05  | 1.75E-05 | 3.00E-09   |
| 518  | 1  | Subsurface | PCB, Total | mg/kg | 6.30E-01 | 2.19E-06  | 3.00E-06 | 2.48E-07   |
| 518  | 1  | Subsurface | Pyrene     | mg/kg | 3.94E+01 | 1.37E-04  | 1.74E-04 | 6.05E-06   |
| 518  | 1  | Subsurface | Total PAH  | mg/kg | 3.90E+01 | 1.35E-04  | 1.72E-04 | 6.73E-07   |
| 518  | 1  | Subsurface | Uranium    | mg/kg | 2.17E+02 | 7.54E-04  | 3.69E-04 | 5.07E-08   |
| 520  | 1  | Subsurface | Aluminum   | mg/kg | 9.61E+03 | 3.34E-02  | 1.64E-02 | 2.24E-06   |
| 520  | 1  | Subsurface | Arsenic    | mg/kg | 8.83E+00 | 3.07E-05  | 9.01E-06 | 2.06E-09   |
| 520  | 1  | Subsurface | Barium     | mg/kg | 1.57E+02 | 5.46E-04  | 2.67E-04 | 3.67E-08   |
| 520  | 1  | Subsurface | Beryllium  | mg/kg | 5.77E-01 | 2.01E-06  | 1.37E-07 | 1.35E-10   |
| 520  | 1  | Subsurface | Chromium   | mg/kg | 5.95E+01 | 2.07E-04  | 1.01E-04 | 1.39E-08   |
| 520  | 1  | Subsurface | Cobalt     | mg/kg | 1.08E+01 | 3.74E-05  | 1.83E-05 | 2.52E-09   |
| 520  | 1  | Subsurface | Iron       | mg/kg | 1.70E+04 | 5.90E-02  | 2.89E-02 | 3.96E-06   |
| 520  | 1  | Subsurface | Manganese  | mg/kg | 7.31E+02 | 2.54E-03  | 9.95E-04 | 1.71E-07   |
| 520  | 1  | Subsurface | Mercury    | mg/kg | 1.07E+01 | 3.71E-05  | 1.82E-05 | 7.44E-05   |
| 520  | 1  | Subsurface | Nickel     | mg/kg | 2.56E+02 | 8.90E-04  | 3.48E-04 | 5.98E-08   |
| 520  | 1  | Subsurface | Silver     | mg/kg | 1.40E+01 | 4.85E-05  | 1.90E-05 | 3.26E-09   |
| 520  | 1  | Subsurface | Total PAH  | mg/kg | 3.18E-02 | 1.11E-07  | 1.41E-07 | 5.50E-10   |
| 520  | 1  | Subsurface | Uranium    | mg/kg | 1.75E+01 | 6.08E-05  | 2.98E-05 | 4.09E-09   |
| 520  | 2  | Subsurface | Arsenic    | mg/kg | 9.87E+00 | 3.43E-05  | 1.01E-05 | 2.31E-09   |
| 520  | 2  | Subsurface | Chromium   | mg/kg | 6.67E+01 | 2.32E-04  | 1.13E-04 | 1.56E-08   |
| 520  | 2  | Subsurface | Manganese  | mg/kg | 6.49E+02 | 2.25E-03  | 8.83E-04 | 1.52E-07   |
| 520  | 2  | Subsurface | Mercury    | mg/kg | 1.19E+01 | 4.13E-05  | 2.02E-05 | 8.27E-05   |
| 520  | 2  | Subsurface | Nickel     | mg/kg | 3.10E+02 | 1.08E-03  | 4.23E-04 | 7.25E-08   |
| 520  | 2  | Subsurface | Total PAH  | mg/kg | 2.53E-01 | 8.79E-07  | 1.12E-06 | 4.37E-09   |
| 520  | 2  | Subsurface | Uranium    | mg/kg | 3.96E+01 | 1.37E-04  | 6.73E-05 | 9.24E-09   |
| 520  | 3  | Subsurface | Arsenic    | mg/kg | 1.04E+01 | 3.63E-05  | 1.07E-05 | 2.44E-09   |
| 520  | 3  | Subsurface | Chromium   | mg/kg | 6.57E+01 | 2.28E-04  | 1.12E-04 | 1.53E-08   |
| 520  | 3  | Subsurface | Copper     | mg/kg | 1.18E+02 | 4.09E-04  | 2.00E-04 | 2.75E-08   |
| 520  | 3  | Subsurface | Mercury    | mg/kg | 6.65E+00 | 2.31E-05  | 1.13E-05 | 4.63E-05   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 520         | 3         | Subsurface   | Nickel      | mg/kg        | 3.31E+02   | 1.15E-03         | 4.51E-04      | 7.73E-08          |
| 520         | 3         | Subsurface   | Silver      | mg/kg        | 1.26E+01   | 4.39E-05         | 1.72E-05      | 2.95E-09          |
| 520         | 3         | Subsurface   | Total PAH   | mg/kg        | 7.42E-02   | 2.58E-07         | 3.28E-07      | 1.28E-09          |
| 520         | 3         | Subsurface   | Uranium     | mg/kg        | 1.85E+01   | 6.44E-05         | 3.15E-05      | 4.33E-09          |
| 520         | 4         | Subsurface   | Arsenic     | mg/kg        | 9.35E+00   | 3.25E-05         | 9.55E-06      | 2.18E-09          |
| 520         | 4         | Subsurface   | Beryllium   | mg/kg        | 7.27E-01   | 2.53E-06         | 1.73E-07      | 1.70E-10          |
| 520         | 4         | Subsurface   | Cadmium     | mg/kg        | 1.17E+00   | 4.08E-06         | 3.99E-08      | 2.74E-10          |
| 520         | 4         | Subsurface   | Chromium    | mg/kg        | 6.60E+01   | 2.29E-04         | 1.12E-04      | 1.54E-08          |
| 520         | 4         | Subsurface   | Copper      | mg/kg        | 1.10E+02   | 3.82E-04         | 1.87E-04      | 2.56E-08          |
| 520         | 4         | Subsurface   | Iron        | mg/kg        | 1.65E+04   | 5.74E-02         | 2.81E-02      | 3.86E-06          |
| 520         | 4         | Subsurface   | Manganese   | mg/kg        | 5.73E+02   | 1.99E-03         | 7.80E-04      | 1.34E-07          |
| 520         | 4         | Subsurface   | Mercury     | mg/kg        | 9.69E+00   | 3.37E-05         | 1.65E-05      | 6.75E-05          |
| 520         | 4         | Subsurface   | Nickel      | mg/kg        | 2.82E+02   | 9.79E-04         | 3.83E-04      | 6.58E-08          |
| 520         | 4         | Subsurface   | Silver      | mg/kg        | 1.23E+01   | 4.26E-05         | 1.67E-05      | 2.86E-09          |
| 520         | 4         | Subsurface   | Total PAH   | mg/kg        | 5.52E-01   | 1.92E-06         | 2.44E-06      | 9.54E-09          |
| 520         | 4         | Subsurface   | Uranium     | mg/kg        | 2.27E+01   | 7.88E-05         | 3.86E-05      | 5.30E-09          |
| 520         | 4         | Subsurface   | Vanadium    | mg/kg        | 4.43E+01   | 1.54E-04         | 3.92E-05      | 1.03E-08          |
| 520         | 5         | Subsurface   | Antimony    | mg/kg        | 6.62E-01   | 2.30E-06         | 1.13E-06      | 1.55E-10          |
| 520         | 5         | Subsurface   | Arsenic     | mg/kg        | 9.97E+00   | 3.46E-05         | 1.02E-05      | 2.33E-09          |
| 520         | 5         | Subsurface   | Barium      | mg/kg        | 1.38E+02   | 4.79E-04         | 2.34E-04      | 3.22E-08          |
| 520         | 5         | Subsurface   | Beryllium   | mg/kg        | 7.01E-01   | 2.44E-06         | 1.67E-07      | 1.64E-10          |
| 520         | 5         | Subsurface   | Chromium    | mg/kg        | 4.94E+01   | 1.72E-04         | 8.40E-05      | 1.15E-08          |
| 520         | 5         | Subsurface   | Iron        | mg/kg        | 1.70E+04   | 5.91E-02         | 2.89E-02      | 3.97E-06          |
| 520         | 5         | Subsurface   | Manganese   | mg/kg        | 5.45E+02   | 1.89E-03         | 7.42E-04      | 1.27E-07          |
| 520         | 5         | Subsurface   | Mercury     | mg/kg        | 6.94E+00   | 2.41E-05         | 1.18E-05      | 4.83E-05          |
| 520         | 5         | Subsurface   | Nickel      | mg/kg        | 1.12E+02   | 3.90E-04         | 1.53E-04      | 2.62E-08          |
| 520         | 5         | Subsurface   | Total PAH   | mg/kg        | 3.87E-01   | 1.35E-06         | 1.71E-06      | 6.69E-09          |
| 520         | 5         | Subsurface   | Vanadium    | mg/kg        | 3.01E+01   | 1.05E-04         | 2.66E-05      | 7.03E-09          |
| 81          | 1         | Subsurface   | Aluminum    | mg/kg        | 9.55E+03   | 3.32E-02         | 1.62E-02      | 2.23E-06          |
| 81          | 1         | Subsurface   | Arsenic     | mg/kg        | 1.11E+01   | 3.86E-05         | 1.13E-05      | 2.59E-09          |
| 81          | 1         | Subsurface   | Beryllium   | mg/kg        | 6.98E-01   | 2.43E-06         | 1.66E-07      | 1.63E-10          |
| 81          | 1         | Subsurface   | Chromium    | mg/kg        | 6.38E+01   | 2.22E-04         | 1.09E-04      | 1.49E-08          |
| 81          | 1         | Subsurface   | Cobalt      | mg/kg        | 1.58E+01   | 5.49E-05         | 2.69E-05      | 3.69E-09          |
| 81          | 1         | Subsurface   | Manganese   | mg/kg        | 1.12E+03   | 3.90E-03         | 1.53E-03      | 2.62E-07          |
| 81          | 1         | Subsurface   | Mercury     | mg/kg        | 8.33E+00   | 2.90E-05         | 1.42E-05      | 5.80E-05          |
| 81          | 1         | Subsurface   | Nickel      | mg/kg        | 7.50E+01   | 2.61E-04         | 1.02E-04      | 1.75E-08          |
| 81          | 1         | Subsurface   | PCB, Total  | mg/kg        | 1.60E+02   | 5.55E-04         | 7.61E-04      | 6.29E-05          |
| 81          | 1         | Subsurface   | Silver      | mg/kg        | 2.70E+00   | 9.38E-06         | 3.68E-06      | 6.31E-10          |
| 81          | 1         | Subsurface   | Thallium    | mg/kg        | 3.49E-01   | 1.21E-06         | 5.94E-07      | 8.15E-11          |
| 81          | 1         | Subsurface   | Total PAH   | mg/kg        | 4.95E-01   | 1.72E-06         | 2.19E-06      | 8.55E-09          |
| 81          | 1         | Subsurface   | Uranium     | mg/kg        | 6.50E+03   | 2.26E-02         | 1.11E-02      | 1.52E-06          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 153         | 1         | Subsurface   | Arsenic     | mg/kg        | 9.92E+00   | 3.45E-05         | 1.01E-05      | 2.32E-09          |
| 153         | 1         | Subsurface   | Chromium    | mg/kg        | 6.59E+01   | 2.29E-04         | 1.12E-04      | 1.54E-08          |
| 153         | 1         | Subsurface   | Manganese   | mg/kg        | 5.73E+02   | 1.99E-03         | 7.80E-04      | 1.34E-07          |
| 153         | 1         | Subsurface   | Nickel      | mg/kg        | 7.83E+01   | 2.72E-04         | 1.07E-04      | 1.83E-08          |
| 153         | 1         | Subsurface   | PCB, Total  | mg/kg        | 6.00E-01   | 2.09E-06         | 2.86E-06      | 2.36E-07          |
| 153         | 1         | Subsurface   | Silver      | mg/kg        | 1.32E+01   | 4.58E-05         | 1.79E-05      | 3.08E-09          |
| 153         | 1         | Subsurface   | Total PAH   | mg/kg        | 7.31E-02   | 2.54E-07         | 3.23E-07      | 1.26E-09          |
| 156         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.11E+01   | 3.86E-05         | 1.13E-05      | 2.59E-09          |
| 156         | 1         | Subsurface   | Beryllium   | mg/kg        | 1.00E+00   | 3.48E-06         | 2.38E-07      | 2.34E-10          |
| 156         | 1         | Subsurface   | Chromium    | mg/kg        | 6.31E+01   | 2.19E-04         | 1.07E-04      | 1.47E-08          |
| 156         | 1         | Subsurface   | Cobalt      | mg/kg        | 1.72E+01   | 5.98E-05         | 2.93E-05      | 4.02E-09          |
| 156         | 1         | Subsurface   | Manganese   | mg/kg        | 2.83E+03   | 9.85E-03         | 3.86E-03      | 6.62E-07          |
| 156         | 1         | Subsurface   | Mercury     | mg/kg        | 9.87E+00   | 3.43E-05         | 1.68E-05      | 6.87E-05          |
| 156         | 1         | Subsurface   | Nickel      | mg/kg        | 6.16E+01   | 2.14E-04         | 8.39E-05      | 1.44E-08          |
| 156         | 1         | Subsurface   | PCB, Total  | mg/kg        | 3.00E-01   | 1.04E-06         | 1.43E-06      | 1.18E-07          |
| 156         | 1         | Subsurface   | Silver      | mg/kg        | 1.19E+01   | 4.14E-05         | 1.62E-05      | 2.78E-09          |
| 156         | 1         | Subsurface   | Total PAH   | mg/kg        | 8.26E-02   | 2.87E-07         | 3.65E-07      | 1.43E-09          |
| 156         | 1         | Subsurface   | Uranium     | mg/kg        | 2.32E+01   | 8.06E-05         | 3.95E-05      | 5.42E-09          |
| 160         | 1         | Subsurface   | Antimony    | mg/kg        | 6.80E-01   | 2.36E-06         | 1.16E-06      | 1.59E-10          |
| 160         | 1         | Subsurface   | Arsenic     | mg/kg        | 8.22E+00   | 2.86E-05         | 8.39E-06      | 1.92E-09          |
| 160         | 1         | Subsurface   | Chromium    | mg/kg        | 4.63E+01   | 1.61E-04         | 7.87E-05      | 1.08E-08          |
| 160         | 1         | Subsurface   | Silver      | mg/kg        | 1.13E+01   | 3.91E-05         | 1.53E-05      | 2.63E-09          |
| 160         | 1         | Subsurface   | Total PAH   | mg/kg        | 1.02E-01   | 3.55E-07         | 4.52E-07      | 1.76E-09          |
| 163         | 1         | Subsurface   | Arsenic     | mg/kg        | 1.00E+01   | 3.48E-05         | 1.02E-05      | 2.34E-09          |
| 163         | 1         | Subsurface   | Chromium    | mg/kg        | 5.89E+01   | 2.05E-04         | 1.00E-04      | 1.38E-08          |
| 163         | 1         | Subsurface   | Mercury     | mg/kg        | 7.53E+00   | 2.62E-05         | 1.28E-05      | 5.24E-05          |
| 163         | 1         | Subsurface   | Nickel      | mg/kg        | 7.54E+01   | 2.62E-04         | 1.03E-04      | 1.76E-08          |
| 163         | 1         | Subsurface   | Silver      | mg/kg        | 1.05E+01   | 3.66E-05         | 1.43E-05      | 2.46E-09          |
| 163         | 1         | Subsurface   | Total PAH   | mg/kg        | 1.07E-01   | 3.72E-07         | 4.73E-07      | 1.85E-09          |
| 163         | 1         | Subsurface   | Vanadium    | mg/kg        | 3.21E+01   | 1.12E-04         | 2.84E-05      | 7.50E-09          |
| 219         | 1         | Subsurface   | Nickel      | mg/kg        | 6.71E+01   | 2.33E-04         | 9.14E-05      | 1.57E-08          |
| 219         | 1         | Subsurface   | Total PAH   | mg/kg        | 7.50E-02   | 2.61E-07         | 3.32E-07      | 1.30E-09          |
| 488         | 1         | Subsurface   | Arsenic     | mg/kg        | 8.89E+00   | 3.09E-05         | 9.08E-06      | 2.08E-09          |
| 488         | 1         | Subsurface   | Chromium    | mg/kg        | 5.31E+01   | 1.84E-04         | 9.03E-05      | 1.24E-08          |
| 488         | 1         | Subsurface   | PCB, Total  | mg/kg        | 1.03E+01   | 3.58E-05         | 4.91E-05      | 4.06E-06          |
| 488         | 1         | Subsurface   | Total PAH   | mg/kg        | 2.50E-01   | 8.68E-07         | 1.10E-06      | 4.31E-09          |
| 488         | 1         | Subsurface   | Uranium     | mg/kg        | 1.48E+01   | 5.14E-05         | 2.52E-05      | 3.46E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC                     | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|--------------------------|-------|----------|-----------|----------|------------|-------------------|
| 1    | 1  | Subsurface | Aluminum                 | mg/kg | 1.05E+04 | 1.31E-02  | 6.40E-03 | 8.78E-07   |                   |
| 1    | 1  | Subsurface | Antimony                 | mg/kg | 2.06E+00 | 2.56E-06  | 1.25E-06 | 1.72E-10   |                   |
| 1    | 1  | Subsurface | Arsenic                  | mg/kg | 6.74E+00 | 8.37E-06  | 2.46E-06 | 5.62E-10   |                   |
| 1    | 1  | Subsurface | Barium                   | mg/kg | 1.46E+02 | 1.82E-04  | 8.90E-05 | 1.22E-08   |                   |
| 1    | 1  | Subsurface | Beryllium                | mg/kg | 3.37E+00 | 4.18E-06  | 2.87E-07 | 2.81E-10   |                   |
| 1    | 1  | Subsurface | Cadmium                  | mg/kg | 1.83E+00 | 2.27E-06  | 2.22E-08 | 1.52E-10   |                   |
| 1    | 1  | Subsurface | Chromium                 | mg/kg | 2.32E+01 | 2.88E-05  | 1.41E-05 | 1.94E-09   |                   |
| 1    | 1  | Subsurface | Cobalt                   | mg/kg | 1.05E+01 | 1.31E-05  | 6.40E-06 | 8.78E-10   |                   |
| 1    | 1  | Subsurface | Manganese                | mg/kg | 1.00E+03 | 1.25E-03  | 4.88E-04 | 8.38E-08   |                   |
| 1    | 1  | Subsurface | Nickel                   | mg/kg | 1.62E+01 | 2.00E-05  | 7.85E-06 | 1.35E-09   |                   |
| 1    | 1  | Subsurface | PCB, Total               | mg/kg | 1.20E-01 | 1.49E-07  | 2.04E-07 | 1.69E-08   |                   |
| 1    | 1  | Subsurface | Thallium                 | mg/kg | 8.92E-01 | 1.11E-06  | 5.42E-07 | 7.44E-11   |                   |
| 1    | 1  | Subsurface | Trichloroethene          | mg/kg | 6.90E-01 | 8.56E-07  | 2.10E-06 | 3.16E-05   |                   |
| 1    | 1  | Subsurface | Vanadium                 | mg/kg | 3.29E+01 | 4.08E-05  | 1.04E-05 | 2.74E-09   |                   |
| 1    | 1  | Subsurface | Cesium-137               | pCi/g | 5.91E-01 | 1.31E+03  |          | 8.82E-02   | 2.00E+00          |
| 1    | 1  | Subsurface | Neptunium-237            | pCi/g | 4.02E-01 | 8.92E+02  |          | 6.00E-02   | 1.36E+00          |
| 1    | 1  | Subsurface | Plutonium-239/240        | pCi/g | 6.14E+00 | 1.36E+04  |          | 9.16E-01   | 2.08E+01          |
| 1    | 1  | Subsurface | Thorium-230              | pCi/g | 4.40E+01 | 9.77E+04  |          | 6.57E+00   | 1.49E+02          |
| 1    | 1  | Subsurface | Uranium-235              | pCi/g | 1.06E-01 | 2.35E+02  |          | 1.58E-02   | 3.58E-01          |
| 1    | 1  | Subsurface | Uranium-238              | pCi/g | 1.97E+00 | 4.38E+03  |          | 2.95E-01   | 6.67E+00          |
| 1    | 2  | Subsurface | Aluminum                 | mg/kg | 9.14E+03 | 1.13E-02  | 5.56E-03 | 7.63E-07   |                   |
| 1    | 2  | Subsurface | Arsenic                  | mg/kg | 7.82E+00 | 9.71E-06  | 2.85E-06 | 6.52E-10   |                   |
| 1    | 2  | Subsurface | Barium                   | mg/kg | 1.57E+02 | 1.95E-04  | 9.55E-05 | 1.31E-08   |                   |
| 1    | 2  | Subsurface | Beryllium                | mg/kg | 5.07E+00 | 6.29E-06  | 4.31E-07 | 4.23E-10   |                   |
| 1    | 2  | Subsurface | Cadmium                  | mg/kg | 3.74E+00 | 4.64E-06  | 4.54E-08 | 3.12E-10   |                   |
| 1    | 2  | Subsurface | Chromium                 | mg/kg | 1.26E+02 | 1.56E-04  | 7.64E-05 | 1.05E-08   |                   |
| 1    | 2  | Subsurface | cis-1,2-Dichloroethene   | mg/kg | 2.40E+03 | 2.98E-03  | 7.29E-03 | 9.55E-02   |                   |
| 1    | 2  | Subsurface | Copper                   | mg/kg | 1.13E+02 | 1.40E-04  | 6.84E-05 | 9.39E-09   |                   |
| 1    | 2  | Subsurface | Manganese                | mg/kg | 7.28E+02 | 9.03E-04  | 3.54E-04 | 6.07E-08   |                   |
| 1    | 2  | Subsurface | Mercury                  | mg/kg | 7.06E+00 | 8.76E-06  | 4.29E-06 | 1.76E-05   |                   |
| 1    | 2  | Subsurface | Nickel                   | mg/kg | 4.96E+01 | 6.16E-05  | 2.41E-05 | 4.14E-09   |                   |
| 1    | 2  | Subsurface | PCB, Total               | mg/kg | 3.21E+01 | 3.99E-05  | 5.46E-05 | 4.52E-06   |                   |
| 1    | 2  | Subsurface | Silver                   | mg/kg | 7.39E+01 | 9.17E-05  | 3.59E-05 | 6.16E-09   |                   |
| 1    | 2  | Subsurface | Thallium                 | mg/kg | 3.70E-01 | 4.59E-07  | 2.25E-07 | 3.09E-11   |                   |
| 1    | 2  | Subsurface | trans-1,2-Dichloroethene | mg/kg | 8.93E+00 | 1.11E-05  | 2.71E-05 | 3.53E-04   |                   |
| 1    | 2  | Subsurface | Trichloroethene          | mg/kg | 6.48E+01 | 8.04E-05  | 1.97E-04 | 2.96E-03   |                   |
| 1    | 2  | Subsurface | Vanadium                 | mg/kg | 3.22E+01 | 3.99E-05  | 1.02E-05 | 2.68E-09   |                   |
| 1    | 2  | Subsurface | Vinyl chloride           | mg/kg | 4.47E+00 | 5.55E-06  | 1.36E-05 | 3.93E-04   |                   |
| 1    | 3  | Subsurface | Antimony                 | mg/kg | 3.80E-01 | 4.72E-07  | 2.31E-07 | 3.17E-11   |                   |
| 1    | 3  | Subsurface | Arsenic                  | mg/kg | 6.24E+00 | 7.74E-06  | 2.27E-06 | 5.20E-10   |                   |
| 1    | 3  | Subsurface | Barium                   | mg/kg | 1.34E+02 | 1.66E-04  | 8.11E-05 | 1.11E-08   |                   |
| 1    | 3  | Subsurface | Cadmium                  | mg/kg | 3.32E+00 | 4.12E-06  | 4.04E-08 | 2.77E-10   |                   |
| 1    | 3  | Subsurface | Manganese                | mg/kg | 5.13E+02 | 6.36E-04  | 2.49E-04 | 4.28E-08   |                   |
| 1    | 3  | Subsurface | Nickel                   | mg/kg | 2.16E+01 | 2.68E-05  | 1.05E-05 | 1.80E-09   |                   |
| 1    | 3  | Subsurface | PCB, Total               | mg/kg | 2.08E-01 | 2.58E-07  | 3.54E-07 | 2.93E-08   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC            | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|-----------------|-------|----------|-----------|----------|------------|-------------------|
| 1    | 3  | Subsurface | Uranium-238     | pCi/g | 1.73E+00 | 3.84E+03  |          | 2.58E-01   | 5.85E+00          |
| 1    | 4  | Subsurface | Beryllium       | mg/kg | 7.52E-01 | 9.33E-07  | 6.40E-08 | 6.27E-11   |                   |
| 1    | 4  | Subsurface | Cadmium         | mg/kg | 2.09E+00 | 2.59E-06  | 2.53E-08 | 1.74E-10   |                   |
| 1    | 4  | Subsurface | Chromium        | mg/kg | 7.09E+01 | 8.80E-05  | 4.31E-05 | 5.92E-09   |                   |
| 1    | 4  | Subsurface | Nickel          | mg/kg | 2.81E+01 | 3.48E-05  | 1.36E-05 | 2.34E-09   |                   |
| 1    | 4  | Subsurface | PCB, Total      | mg/kg | 9.24E-02 | 1.15E-07  | 1.57E-07 | 1.30E-08   |                   |
| 1    | 4  | Subsurface | Trichloroethene | mg/kg | 1.90E-01 | 2.36E-07  | 5.77E-07 | 8.70E-06   |                   |
| 1    | 4  | Subsurface | Vanadium        | mg/kg | 2.87E+01 | 3.56E-05  | 9.07E-06 | 2.39E-09   |                   |
| 1    | 4  | Subsurface | Cesium-137      | pCi/g | 3.37E-01 | 7.48E+02  |          | 5.03E-02   | 1.14E+00          |
| 1    | 4  | Subsurface | Cobalt-60       | pCi/g | 2.20E-02 | 4.88E+01  |          | 3.28E-03   | 7.43E-02          |
| 1    | 4  | Subsurface | Thorium-230     | pCi/g | 5.03E+00 | 1.12E+04  |          | 7.50E-01   | 1.70E+01          |
| 1    | 5  | Subsurface | Aluminum        | mg/kg | 1.20E+04 | 1.49E-02  | 7.29E-03 | 1.00E-06   |                   |
| 1    | 5  | Subsurface | Arsenic         | mg/kg | 1.67E+01 | 2.07E-05  | 6.09E-06 | 1.39E-09   |                   |
| 1    | 5  | Subsurface | Barium          | mg/kg | 2.15E+02 | 2.67E-04  | 1.31E-04 | 1.79E-08   |                   |
| 1    | 5  | Subsurface | Beryllium       | mg/kg | 8.30E+00 | 1.03E-05  | 7.06E-07 | 6.92E-10   |                   |
| 1    | 5  | Subsurface | Cadmium         | mg/kg | 2.97E+00 | 3.69E-06  | 3.61E-08 | 2.48E-10   |                   |
| 1    | 5  | Subsurface | Cobalt          | mg/kg | 1.43E+01 | 1.78E-05  | 8.69E-06 | 1.19E-09   |                   |
| 1    | 5  | Subsurface | Manganese       | mg/kg | 2.16E+03 | 2.68E-03  | 1.05E-03 | 1.80E-07   |                   |
| 1    | 5  | Subsurface | Nickel          | mg/kg | 4.07E+01 | 5.05E-05  | 1.98E-05 | 3.40E-09   |                   |
| 1    | 5  | Subsurface | PCB, Total      | mg/kg | 2.70E-01 | 3.35E-07  | 4.59E-07 | 3.80E-08   |                   |
| 1    | 5  | Subsurface | Total PAH       | mg/kg | 9.83E-02 | 1.22E-07  | 1.55E-07 | 6.06E-10   |                   |
| 99   | 1  | Subsurface | Aluminum        | mg/kg | 1.16E+04 | 1.45E-02  | 7.08E-03 | 9.71E-07   |                   |
| 99   | 1  | Subsurface | Arsenic         | mg/kg | 9.94E+00 | 1.23E-05  | 3.62E-06 | 8.29E-10   |                   |
| 99   | 1  | Subsurface | Barium          | mg/kg | 1.35E+02 | 1.67E-04  | 8.20E-05 | 1.13E-08   |                   |
| 99   | 1  | Subsurface | Beryllium       | mg/kg | 7.22E-01 | 8.96E-07  | 6.14E-08 | 6.02E-11   |                   |
| 99   | 1  | Subsurface | Chromium        | mg/kg | 6.29E+01 | 7.80E-05  | 3.82E-05 | 5.24E-09   |                   |
| 99   | 1  | Subsurface | Manganese       | mg/kg | 6.28E+02 | 7.80E-04  | 3.05E-04 | 5.24E-08   |                   |
| 99   | 1  | Subsurface | Mercury         | mg/kg | 9.53E+00 | 1.18E-05  | 5.79E-06 | 2.37E-05   |                   |
| 99   | 1  | Subsurface | Nickel          | mg/kg | 8.52E+01 | 1.06E-04  | 4.14E-05 | 7.10E-09   |                   |
| 99   | 1  | Subsurface | Silver          | mg/kg | 1.03E+01 | 1.28E-05  | 5.01E-06 | 8.59E-10   |                   |
| 99   | 1  | Subsurface | Uranium         | mg/kg | 1.61E+01 | 2.00E-05  | 9.77E-06 | 1.34E-09   |                   |
| 99   | 1  | Subsurface | Cobalt-60       | pCi/g | 1.19E-02 | 2.64E+01  |          | 1.78E-03   | 4.02E-02          |
| 99   | 1  | Subsurface | Uranium-238     | pCi/g | 9.45E-01 | 2.10E+03  |          | 1.41E-01   | 3.19E+00          |
| 99   | 2  | Subsurface | Chromium        | mg/kg | 4.57E+01 | 5.68E-05  | 2.78E-05 | 3.82E-09   |                   |
| 194  | 1  | Subsurface | Antimony        | mg/kg | 8.62E-01 | 1.07E-06  | 5.24E-07 | 7.19E-11   |                   |
| 194  | 1  | Subsurface | Arsenic         | mg/kg | 1.02E+01 | 1.26E-05  | 3.72E-06 | 8.50E-10   |                   |
| 194  | 1  | Subsurface | Beryllium       | mg/kg | 5.96E-01 | 7.40E-07  | 5.07E-08 | 4.97E-11   |                   |
| 194  | 1  | Subsurface | Chromium        | mg/kg | 5.11E+01 | 6.34E-05  | 3.10E-05 | 4.26E-09   |                   |
| 194  | 1  | Subsurface | Manganese       | mg/kg | 5.82E+02 | 7.22E-04  | 2.83E-04 | 4.85E-08   |                   |
| 194  | 1  | Subsurface | Mercury         | mg/kg | 6.71E+00 | 8.33E-06  | 4.08E-06 | 1.67E-05   |                   |
| 194  | 1  | Subsurface | Nickel          | mg/kg | 6.12E+01 | 7.59E-05  | 2.97E-05 | 5.10E-09   |                   |
| 194  | 1  | Subsurface | Silver          | mg/kg | 1.09E+01 | 1.36E-05  | 5.31E-06 | 9.12E-10   |                   |
| 194  | 1  | Subsurface | Thallium        | mg/kg | 3.84E-01 | 4.77E-07  | 2.33E-07 | 3.20E-11   |                   |
| 194  | 1  | Subsurface | Vanadium        | mg/kg | 3.74E+01 | 4.65E-05  | 1.18E-05 | 3.12E-09   |                   |
| 194  | 2  | Subsurface | Antimony        | mg/kg | 6.59E-01 | 8.18E-07  | 4.00E-07 | 5.50E-11   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 2  | Subsurface | Arsenic     | mg/kg | 1.02E+01 | 1.26E-05  | 3.72E-06 | 8.50E-10   |                   |
| 194  | 2  | Subsurface | Beryllium   | mg/kg | 6.96E-01 | 8.64E-07  | 5.92E-08 | 5.81E-11   |                   |
| 194  | 2  | Subsurface | Chromium    | mg/kg | 5.96E+01 | 7.40E-05  | 3.62E-05 | 4.97E-09   |                   |
| 194  | 2  | Subsurface | Manganese   | mg/kg | 7.01E+02 | 8.70E-04  | 3.41E-04 | 5.85E-08   |                   |
| 194  | 2  | Subsurface | Mercury     | mg/kg | 6.90E+00 | 8.56E-06  | 4.19E-06 | 1.72E-05   |                   |
| 194  | 2  | Subsurface | Silver      | mg/kg | 1.39E+01 | 1.73E-05  | 6.76E-06 | 1.16E-09   |                   |
| 194  | 2  | Subsurface | Uranium     | mg/kg | 2.68E+01 | 3.33E-05  | 1.63E-05 | 2.24E-09   |                   |
| 194  | 2  | Subsurface | Vanadium    | mg/kg | 3.55E+01 | 4.40E-05  | 1.12E-05 | 2.96E-09   |                   |
| 194  | 2  | Subsurface | Uranium-238 | pCi/g | 1.24E+00 | 2.74E+03  |          | 1.84E-01   | 4.17E+00          |
| 194  | 3  | Subsurface | Antimony    | mg/kg | 5.92E-01 | 7.35E-07  | 3.60E-07 | 4.94E-11   |                   |
| 194  | 3  | Subsurface | Arsenic     | mg/kg | 1.44E+01 | 1.79E-05  | 5.26E-06 | 1.20E-09   |                   |
| 194  | 3  | Subsurface | Chromium    | mg/kg | 4.98E+01 | 6.18E-05  | 3.02E-05 | 4.15E-09   |                   |
| 194  | 3  | Subsurface | Nickel      | mg/kg | 6.32E+01 | 7.85E-05  | 3.07E-05 | 5.27E-09   |                   |
| 194  | 3  | Subsurface | Total PAH   | mg/kg | 3.39E-02 | 4.21E-08  | 5.36E-08 | 2.09E-10   |                   |
| 194  | 3  | Subsurface | Cesium-137  | pCi/g | 2.35E-01 | 5.22E+02  |          | 3.51E-02   | 7.94E-01          |
| 194  | 3  | Subsurface | Uranium-238 | pCi/g | 1.16E+00 | 2.58E+03  |          | 1.73E-01   | 3.93E+00          |
| 194  | 4  | Subsurface | Aluminum    | mg/kg | 8.50E+03 | 1.06E-02  | 5.17E-03 | 7.09E-07   |                   |
| 194  | 4  | Subsurface | Arsenic     | mg/kg | 1.02E+01 | 1.27E-05  | 3.73E-06 | 8.53E-10   |                   |
| 194  | 4  | Subsurface | Beryllium   | mg/kg | 5.87E-01 | 7.29E-07  | 4.99E-08 | 4.90E-11   |                   |
| 194  | 4  | Subsurface | Chromium    | mg/kg | 5.59E+01 | 6.94E-05  | 3.40E-05 | 4.66E-09   |                   |
| 194  | 4  | Subsurface | Iron        | mg/kg | 1.83E+04 | 2.27E-02  | 1.11E-02 | 1.52E-06   |                   |
| 194  | 4  | Subsurface | Manganese   | mg/kg | 4.76E+02 | 5.91E-04  | 2.31E-04 | 3.97E-08   |                   |
| 194  | 4  | Subsurface | Mercury     | mg/kg | 8.92E+00 | 1.11E-05  | 5.42E-06 | 2.22E-05   |                   |
| 194  | 4  | Subsurface | Nickel      | mg/kg | 8.15E+01 | 1.01E-04  | 3.96E-05 | 6.80E-09   |                   |
| 194  | 4  | Subsurface | Silver      | mg/kg | 1.23E+01 | 1.52E-05  | 5.97E-06 | 1.02E-09   |                   |
| 194  | 4  | Subsurface | Total PAH   | mg/kg | 2.85E-02 | 3.54E-08  | 4.50E-08 | 1.76E-10   |                   |
| 194  | 4  | Subsurface | Vanadium    | mg/kg | 3.07E+01 | 3.81E-05  | 9.70E-06 | 2.56E-09   |                   |
| 194  | 4  | Subsurface | Cesium-137  | pCi/g | 1.44E-01 | 3.20E+02  |          | 2.15E-02   | 4.87E-01          |
| 194  | 4  | Subsurface | Uranium-238 | pCi/g | 1.02E+00 | 2.27E+03  |          | 1.53E-01   | 3.46E+00          |
| 194  | 5  | Subsurface | Aluminum    | mg/kg | 9.38E+03 | 1.16E-02  | 5.70E-03 | 7.83E-07   |                   |
| 194  | 5  | Subsurface | Arsenic     | mg/kg | 9.71E+00 | 1.21E-05  | 3.54E-06 | 8.10E-10   |                   |
| 194  | 5  | Subsurface | Beryllium   | mg/kg | 6.26E-01 | 7.77E-07  | 5.33E-08 | 5.22E-11   |                   |
| 194  | 5  | Subsurface | Chromium    | mg/kg | 5.54E+01 | 6.88E-05  | 3.37E-05 | 4.62E-09   |                   |
| 194  | 5  | Subsurface | Manganese   | mg/kg | 1.39E+03 | 1.72E-03  | 6.73E-04 | 1.16E-07   |                   |
| 194  | 5  | Subsurface | Mercury     | mg/kg | 8.69E+00 | 1.08E-05  | 5.28E-06 | 2.16E-05   |                   |
| 194  | 5  | Subsurface | Nickel      | mg/kg | 7.56E+01 | 9.39E-05  | 3.68E-05 | 6.31E-09   |                   |
| 194  | 5  | Subsurface | Silver      | mg/kg | 1.29E+01 | 1.60E-05  | 6.29E-06 | 1.08E-09   |                   |
| 194  | 5  | Subsurface | Total PAH   | mg/kg | 4.50E-01 | 5.59E-07  | 7.11E-07 | 2.78E-09   |                   |
| 194  | 5  | Subsurface | Vanadium    | mg/kg | 3.19E+01 | 3.96E-05  | 1.01E-05 | 2.66E-09   |                   |
| 194  | 5  | Subsurface | Uranium-238 | pCi/g | 1.11E+00 | 2.47E+03  |          | 1.66E-01   | 3.76E+00          |
| 194  | 6  | Subsurface | Manganese   | mg/kg | 1.37E+03 | 1.70E-03  | 6.67E-04 | 1.14E-07   |                   |
| 194  | 6  | Subsurface | Nickel      | mg/kg | 6.98E+01 | 8.67E-05  | 3.39E-05 | 5.83E-09   |                   |
| 194  | 6  | Subsurface | Silver      | mg/kg | 9.89E+00 | 1.23E-05  | 4.81E-06 | 8.25E-10   |                   |
| 194  | 6  | Subsurface | Uranium-238 | pCi/g | 1.12E+00 | 2.48E+03  |          | 1.67E-01   | 3.77E+00          |
| 194  | 7  | Subsurface | Arsenic     | mg/kg | 1.02E+01 | 1.27E-05  | 3.72E-06 | 8.52E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 7  | Subsurface | Chromium    | mg/kg | 5.32E+01 | 6.60E-05  | 3.23E-05 | 4.44E-09   |                   |
| 194  | 7  | Subsurface | Manganese   | mg/kg | 7.86E+02 | 9.75E-04  | 3.82E-04 | 6.55E-08   |                   |
| 194  | 7  | Subsurface | Nickel      | mg/kg | 7.71E+01 | 9.58E-05  | 3.75E-05 | 6.43E-09   |                   |
| 194  | 7  | Subsurface | Silver      | mg/kg | 1.25E+01 | 1.55E-05  | 6.08E-06 | 1.04E-09   |                   |
| 194  | 8  | Subsurface | Antimony    | mg/kg | 5.58E-01 | 6.93E-07  | 3.39E-07 | 4.65E-11   |                   |
| 194  | 8  | Subsurface | Arsenic     | mg/kg | 1.09E+01 | 1.35E-05  | 3.96E-06 | 9.07E-10   |                   |
| 194  | 8  | Subsurface | Chromium    | mg/kg | 6.09E+01 | 7.56E-05  | 3.70E-05 | 5.08E-09   |                   |
| 194  | 8  | Subsurface | Cobalt      | mg/kg | 1.33E+01 | 1.65E-05  | 8.08E-06 | 1.11E-09   |                   |
| 194  | 8  | Subsurface | Manganese   | mg/kg | 1.33E+03 | 1.65E-03  | 6.47E-04 | 1.11E-07   |                   |
| 194  | 8  | Subsurface | Nickel      | mg/kg | 6.01E+01 | 7.46E-05  | 2.92E-05 | 5.01E-09   |                   |
| 194  | 8  | Subsurface | Total PAH   | mg/kg | 3.74E-01 | 4.64E-07  | 5.91E-07 | 2.31E-09   |                   |
| 194  | 8  | Subsurface | Cesium-137  | pCi/g | 2.78E-01 | 6.17E+02  |          | 4.15E-02   | 9.39E-01          |
| 194  | 8  | Subsurface | Uranium-238 | pCi/g | 1.18E+00 | 2.62E+03  |          | 1.76E-01   | 3.99E+00          |
| 194  | 9  | Subsurface | Arsenic     | mg/kg | 9.77E+00 | 1.21E-05  | 3.56E-06 | 8.15E-10   |                   |
| 194  | 9  | Subsurface | Chromium    | mg/kg | 4.48E+01 | 5.56E-05  | 2.72E-05 | 3.74E-09   |                   |
| 194  | 9  | Subsurface | Manganese   | mg/kg | 5.54E+02 | 6.88E-04  | 2.69E-04 | 4.62E-08   |                   |
| 194  | 9  | Subsurface | Nickel      | mg/kg | 5.98E+01 | 7.43E-05  | 2.91E-05 | 4.99E-09   |                   |
| 194  | 9  | Subsurface | Silver      | mg/kg | 1.07E+01 | 1.33E-05  | 5.22E-06 | 8.95E-10   |                   |
| 194  | 10 | Subsurface | Arsenic     | mg/kg | 1.10E+01 | 1.37E-05  | 4.02E-06 | 9.19E-10   |                   |
| 194  | 10 | Subsurface | Chromium    | mg/kg | 5.00E+01 | 6.20E-05  | 3.04E-05 | 4.17E-09   |                   |
| 194  | 10 | Subsurface | Mercury     | mg/kg | 8.07E+00 | 1.00E-05  | 4.90E-06 | 2.01E-05   |                   |
| 194  | 10 | Subsurface | Nickel      | mg/kg | 7.60E+01 | 9.43E-05  | 3.69E-05 | 6.34E-09   |                   |
| 194  | 10 | Subsurface | Thallium    | mg/kg | 4.50E-01 | 5.59E-07  | 2.73E-07 | 3.75E-11   |                   |
| 194  | 10 | Subsurface | Total PAH   | mg/kg | 2.57E-01 | 3.19E-07  | 4.06E-07 | 1.59E-09   |                   |
| 194  | 10 | Subsurface | Cesium-137  | pCi/g | 5.81E-01 | 1.29E+03  |          | 8.67E-02   | 1.96E+00          |
| 194  | 10 | Subsurface | Uranium-238 | pCi/g | 1.49E+00 | 3.31E+03  |          | 2.22E-01   | 5.03E+00          |
| 194  | 11 | Subsurface | Arsenic     | mg/kg | 1.08E+01 | 1.34E-05  | 3.92E-06 | 8.98E-10   |                   |
| 194  | 11 | Subsurface | Chromium    | mg/kg | 5.66E+01 | 7.02E-05  | 3.44E-05 | 4.72E-09   |                   |
| 194  | 11 | Subsurface | Mercury     | mg/kg | 8.09E+00 | 1.00E-05  | 4.92E-06 | 2.01E-05   |                   |
| 194  | 11 | Subsurface | Nickel      | mg/kg | 1.01E+02 | 1.25E-04  | 4.89E-05 | 8.40E-09   |                   |
| 194  | 11 | Subsurface | PCB, Total  | mg/kg | 8.40E-02 | 1.04E-07  | 1.43E-07 | 1.18E-08   |                   |
| 194  | 11 | Subsurface | Silver      | mg/kg | 1.33E+01 | 1.65E-05  | 6.46E-06 | 1.11E-09   |                   |
| 194  | 11 | Subsurface | Thallium    | mg/kg | 3.70E-01 | 4.59E-07  | 2.25E-07 | 3.09E-11   |                   |
| 194  | 11 | Subsurface | Total PAH   | mg/kg | 7.95E-02 | 9.87E-08  | 1.26E-07 | 4.91E-10   |                   |
| 194  | 12 | Subsurface | Arsenic     | mg/kg | 9.18E+00 | 1.14E-05  | 3.35E-06 | 7.66E-10   |                   |
| 194  | 12 | Subsurface | Chromium    | mg/kg | 6.34E+01 | 7.86E-05  | 3.85E-05 | 5.29E-09   |                   |
| 194  | 12 | Subsurface | Manganese   | mg/kg | 7.31E+02 | 9.07E-04  | 3.55E-04 | 6.09E-08   |                   |
| 194  | 12 | Subsurface | Nickel      | mg/kg | 7.86E+01 | 9.76E-05  | 3.82E-05 | 6.56E-09   |                   |
| 194  | 12 | Subsurface | Silver      | mg/kg | 1.54E+01 | 1.91E-05  | 7.46E-06 | 1.28E-09   |                   |
| 194  | 12 | Subsurface | Total PAH   | mg/kg | 7.07E-01 | 8.78E-07  | 1.12E-06 | 4.36E-09   |                   |
| 194  | 13 | Subsurface | Arsenic     | mg/kg | 9.90E+00 | 1.23E-05  | 3.61E-06 | 8.26E-10   |                   |
| 194  | 13 | Subsurface | Chromium    | mg/kg | 6.25E+01 | 7.75E-05  | 3.80E-05 | 5.21E-09   |                   |
| 194  | 13 | Subsurface | Manganese   | mg/kg | 6.05E+02 | 7.51E-04  | 2.94E-04 | 5.05E-08   |                   |
| 194  | 13 | Subsurface | Nickel      | mg/kg | 6.80E+01 | 8.44E-05  | 3.31E-05 | 5.67E-09   |                   |
| 194  | 13 | Subsurface | Total PAH   | mg/kg | 6.73E-02 | 8.35E-08  | 1.06E-07 | 4.15E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 14 | Subsurface | Aluminum   | mg/kg | 1.26E+04 | 1.57E-02  | 7.68E-03 | 1.05E-06   |                   |
| 194  | 14 | Subsurface | Arsenic    | mg/kg | 1.09E+01 | 1.35E-05  | 3.96E-06 | 9.05E-10   |                   |
| 194  | 14 | Subsurface | Chromium   | mg/kg | 6.09E+01 | 7.56E-05  | 3.70E-05 | 5.08E-09   |                   |
| 194  | 14 | Subsurface | Manganese  | mg/kg | 7.02E+02 | 8.71E-04  | 3.41E-04 | 5.86E-08   |                   |
| 194  | 14 | Subsurface | Mercury    | mg/kg | 8.94E+00 | 1.11E-05  | 5.43E-06 | 2.22E-05   |                   |
| 194  | 14 | Subsurface | Nickel     | mg/kg | 7.09E+01 | 8.79E-05  | 3.44E-05 | 5.91E-09   |                   |
| 194  | 14 | Subsurface | Vanadium   | mg/kg | 3.51E+01 | 4.36E-05  | 1.11E-05 | 2.93E-09   |                   |
| 194  | 15 | Subsurface | Arsenic    | mg/kg | 8.95E+00 | 1.11E-05  | 3.26E-06 | 7.46E-10   |                   |
| 194  | 15 | Subsurface | Chromium   | mg/kg | 6.06E+01 | 7.52E-05  | 3.68E-05 | 5.05E-09   |                   |
| 194  | 15 | Subsurface | Manganese  | mg/kg | 6.10E+02 | 7.57E-04  | 2.96E-04 | 5.09E-08   |                   |
| 194  | 15 | Subsurface | Nickel     | mg/kg | 7.98E+01 | 9.90E-05  | 3.88E-05 | 6.65E-09   |                   |
| 194  | 15 | Subsurface | Silver     | mg/kg | 1.17E+01 | 1.45E-05  | 5.68E-06 | 9.74E-10   |                   |
| 194  | 16 | Subsurface | Antimony   | mg/kg | 5.08E-01 | 6.31E-07  | 3.09E-07 | 4.24E-11   |                   |
| 194  | 16 | Subsurface | Arsenic    | mg/kg | 1.09E+01 | 1.36E-05  | 3.99E-06 | 9.12E-10   |                   |
| 194  | 16 | Subsurface | Beryllium  | mg/kg | 6.46E-01 | 8.02E-07  | 5.50E-08 | 5.39E-11   |                   |
| 194  | 16 | Subsurface | Chromium   | mg/kg | 5.32E+01 | 6.61E-05  | 3.24E-05 | 4.44E-09   |                   |
| 194  | 16 | Subsurface | Manganese  | mg/kg | 1.72E+03 | 2.13E-03  | 8.36E-04 | 1.43E-07   |                   |
| 194  | 16 | Subsurface | Nickel     | mg/kg | 8.59E+01 | 1.07E-04  | 4.18E-05 | 7.16E-09   |                   |
| 194  | 16 | Subsurface | Silver     | mg/kg | 1.23E+01 | 1.53E-05  | 5.99E-06 | 1.03E-09   |                   |
| 194  | 16 | Subsurface | Thallium   | mg/kg | 3.81E-01 | 4.73E-07  | 2.32E-07 | 3.18E-11   |                   |
| 194  | 16 | Subsurface | Vanadium   | mg/kg | 3.24E+01 | 4.02E-05  | 1.02E-05 | 2.70E-09   |                   |
| 194  | 17 | Subsurface | Arsenic    | mg/kg | 1.12E+01 | 1.38E-05  | 4.07E-06 | 9.30E-10   |                   |
| 194  | 17 | Subsurface | Cadmium    | mg/kg | 8.52E-01 | 1.06E-06  | 1.04E-08 | 7.11E-11   |                   |
| 194  | 17 | Subsurface | Chromium   | mg/kg | 5.45E+01 | 6.77E-05  | 3.31E-05 | 4.55E-09   |                   |
| 194  | 17 | Subsurface | Nickel     | mg/kg | 6.94E+01 | 8.61E-05  | 3.37E-05 | 5.79E-09   |                   |
| 194  | 17 | Subsurface | Total PAH  | mg/kg | 1.04E-01 | 1.29E-07  | 1.64E-07 | 6.41E-10   |                   |
| 194  | 17 | Subsurface | Cesium-137 | pCi/g | 2.53E-01 | 5.62E+02  |          | 3.77E-02   | 8.55E-01          |
| 194  | 18 | Subsurface | Aluminum   | mg/kg | 1.67E+04 | 2.07E-02  | 1.01E-02 | 1.39E-06   |                   |
| 194  | 18 | Subsurface | Antimony   | mg/kg | 5.94E-01 | 7.37E-07  | 3.61E-07 | 4.96E-11   |                   |
| 194  | 18 | Subsurface | Arsenic    | mg/kg | 1.19E+01 | 1.47E-05  | 4.33E-06 | 9.90E-10   |                   |
| 194  | 18 | Subsurface | Beryllium  | mg/kg | 7.21E-01 | 8.95E-07  | 6.13E-08 | 6.01E-11   |                   |
| 194  | 18 | Subsurface | Chromium   | mg/kg | 6.85E+01 | 8.50E-05  | 4.16E-05 | 5.71E-09   |                   |
| 194  | 18 | Subsurface | Iron       | mg/kg | 2.10E+04 | 2.61E-02  | 1.28E-02 | 1.76E-06   |                   |
| 194  | 18 | Subsurface | Manganese  | mg/kg | 7.72E+02 | 9.59E-04  | 3.76E-04 | 6.44E-08   |                   |
| 194  | 18 | Subsurface | Nickel     | mg/kg | 9.80E+01 | 1.22E-04  | 4.76E-05 | 8.17E-09   |                   |
| 194  | 18 | Subsurface | Thallium   | mg/kg | 3.04E-01 | 3.77E-07  | 1.85E-07 | 2.54E-11   |                   |
| 194  | 18 | Subsurface | Vanadium   | mg/kg | 3.90E+01 | 4.85E-05  | 1.23E-05 | 3.26E-09   |                   |
| 194  | 19 | Subsurface | Arsenic    | mg/kg | 9.96E+00 | 1.24E-05  | 3.63E-06 | 8.31E-10   |                   |
| 194  | 19 | Subsurface | Chromium   | mg/kg | 4.84E+01 | 6.00E-05  | 2.94E-05 | 4.03E-09   |                   |
| 194  | 19 | Subsurface | Nickel     | mg/kg | 6.83E+01 | 8.47E-05  | 3.32E-05 | 5.69E-09   |                   |
| 194  | 19 | Subsurface | Silver     | mg/kg | 9.44E+00 | 1.17E-05  | 4.59E-06 | 7.87E-10   |                   |
| 194  | 20 | Subsurface | Arsenic    | mg/kg | 1.14E+01 | 1.42E-05  | 4.17E-06 | 9.54E-10   |                   |
| 194  | 20 | Subsurface | Barium     | mg/kg | 2.35E+02 | 2.92E-04  | 1.43E-04 | 1.96E-08   |                   |
| 194  | 20 | Subsurface | Beryllium  | mg/kg | 8.66E-01 | 1.07E-06  | 7.37E-08 | 7.22E-11   |                   |
| 194  | 20 | Subsurface | Chromium   | mg/kg | 7.11E+01 | 8.82E-05  | 4.32E-05 | 5.93E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 20 | Subsurface | Cobalt     | mg/kg | 1.48E+01 | 1.84E-05  | 9.01E-06 | 1.24E-09   |                   |
| 194  | 20 | Subsurface | Manganese  | mg/kg | 2.33E+03 | 2.89E-03  | 1.13E-03 | 1.94E-07   |                   |
| 194  | 20 | Subsurface | Mercury    | mg/kg | 7.28E+00 | 9.04E-06  | 4.42E-06 | 1.81E-05   |                   |
| 194  | 20 | Subsurface | Nickel     | mg/kg | 6.57E+01 | 8.16E-05  | 3.19E-05 | 5.48E-09   |                   |
| 194  | 20 | Subsurface | Silver     | mg/kg | 1.08E+01 | 1.34E-05  | 5.23E-06 | 8.98E-10   |                   |
| 194  | 20 | Subsurface | Total PAH  | mg/kg | 2.08E-02 | 2.58E-08  | 3.29E-08 | 1.28E-10   |                   |
| 194  | 20 | Subsurface | Vanadium   | mg/kg | 3.29E+01 | 4.08E-05  | 1.04E-05 | 2.74E-09   |                   |
| 194  | 21 | Subsurface | Antimony   | mg/kg | 9.30E-01 | 1.15E-06  | 5.65E-07 | 7.76E-11   |                   |
| 194  | 21 | Subsurface | Arsenic    | mg/kg | 3.52E+01 | 4.37E-05  | 1.28E-05 | 2.94E-09   |                   |
| 194  | 21 | Subsurface | Barium     | mg/kg | 2.96E+03 | 3.67E-03  | 1.80E-03 | 2.47E-07   |                   |
| 194  | 21 | Subsurface | Beryllium  | mg/kg | 1.80E+00 | 2.23E-06  | 1.53E-07 | 1.50E-10   |                   |
| 194  | 21 | Subsurface | Chromium   | mg/kg | 5.51E+01 | 6.84E-05  | 3.35E-05 | 4.60E-09   |                   |
| 194  | 21 | Subsurface | Cobalt     | mg/kg | 8.31E+01 | 1.03E-04  | 5.05E-05 | 6.93E-09   |                   |
| 194  | 21 | Subsurface | Iron       | mg/kg | 4.73E+04 | 5.87E-02  | 2.87E-02 | 3.95E-06   |                   |
| 194  | 21 | Subsurface | Manganese  | mg/kg | 3.11E+04 | 3.86E-02  | 1.51E-02 | 2.59E-06   |                   |
| 194  | 21 | Subsurface | Mercury    | mg/kg | 6.62E+00 | 8.22E-06  | 4.02E-06 | 1.65E-05   |                   |
| 194  | 21 | Subsurface | Nickel     | mg/kg | 7.01E+01 | 8.70E-05  | 3.41E-05 | 5.85E-09   |                   |
| 194  | 21 | Subsurface | Thallium   | mg/kg | 1.40E+00 | 1.74E-06  | 8.51E-07 | 1.17E-10   |                   |
| 194  | 21 | Subsurface | Vanadium   | mg/kg | 8.63E+01 | 1.07E-04  | 2.73E-05 | 7.20E-09   |                   |
| 194  | 22 | Subsurface | Aluminum   | mg/kg | 1.13E+04 | 1.40E-02  | 6.86E-03 | 9.42E-07   |                   |
| 194  | 22 | Subsurface | Antimony   | mg/kg | 5.29E-01 | 6.57E-07  | 3.21E-07 | 4.41E-11   |                   |
| 194  | 22 | Subsurface | Arsenic    | mg/kg | 1.15E+01 | 1.43E-05  | 4.19E-06 | 9.59E-10   |                   |
| 194  | 22 | Subsurface | Chromium   | mg/kg | 4.75E+01 | 5.90E-05  | 2.89E-05 | 3.97E-09   |                   |
| 194  | 22 | Subsurface | Cobalt     | mg/kg | 1.08E+01 | 1.34E-05  | 6.54E-06 | 8.98E-10   |                   |
| 194  | 22 | Subsurface | Manganese  | mg/kg | 1.06E+03 | 1.31E-03  | 5.15E-04 | 8.83E-08   |                   |
| 194  | 22 | Subsurface | Nickel     | mg/kg | 7.08E+01 | 8.78E-05  | 3.44E-05 | 5.90E-09   |                   |
| 194  | 22 | Subsurface | PCB, Total | mg/kg | 1.04E+01 | 1.29E-05  | 1.77E-05 | 1.46E-06   |                   |
| 194  | 22 | Subsurface | Silver     | mg/kg | 1.14E+01 | 1.41E-05  | 5.52E-06 | 9.47E-10   |                   |
| 194  | 22 | Subsurface | Cesium-137 | pCi/g | 1.62E-01 | 3.60E+02  |          | 2.42E-02   | 5.47E-01          |
| 194  | 23 | Subsurface | Arsenic    | mg/kg | 1.12E+01 | 1.39E-05  | 4.09E-06 | 9.37E-10   |                   |
| 194  | 23 | Subsurface | Cadmium    | mg/kg | 6.58E+00 | 8.17E-06  | 8.00E-08 | 5.49E-10   |                   |
| 194  | 23 | Subsurface | Chromium   | mg/kg | 5.90E+01 | 7.32E-05  | 3.58E-05 | 4.92E-09   |                   |
| 194  | 23 | Subsurface | Iron       | mg/kg | 1.94E+04 | 2.40E-02  | 1.18E-02 | 1.62E-06   |                   |
| 194  | 23 | Subsurface | Manganese  | mg/kg | 7.24E+02 | 8.99E-04  | 3.52E-04 | 6.04E-08   |                   |
| 194  | 23 | Subsurface | Mercury    | mg/kg | 7.75E+00 | 9.62E-06  | 4.71E-06 | 1.93E-05   |                   |
| 194  | 23 | Subsurface | Nickel     | mg/kg | 7.33E+01 | 9.10E-05  | 3.57E-05 | 6.12E-09   |                   |
| 194  | 23 | Subsurface | Silver     | mg/kg | 1.04E+01 | 1.28E-05  | 5.03E-06 | 8.63E-10   |                   |
| 194  | 23 | Subsurface | Cesium-137 | pCi/g | 2.83E-01 | 6.28E+02  |          | 4.22E-02   | 9.56E-01          |
| 194  | 24 | Subsurface | Arsenic    | mg/kg | 1.19E+01 | 1.48E-05  | 4.35E-06 | 9.94E-10   |                   |
| 194  | 24 | Subsurface | Beryllium  | mg/kg | 6.50E-01 | 8.07E-07  | 5.53E-08 | 5.42E-11   |                   |
| 194  | 24 | Subsurface | Chromium   | mg/kg | 4.67E+01 | 5.80E-05  | 2.84E-05 | 3.90E-09   |                   |
| 194  | 24 | Subsurface | Iron       | mg/kg | 2.31E+04 | 2.87E-02  | 1.40E-02 | 1.93E-06   |                   |
| 194  | 24 | Subsurface | Manganese  | mg/kg | 6.03E+02 | 7.48E-04  | 2.93E-04 | 5.03E-08   |                   |
| 194  | 24 | Subsurface | Mercury    | mg/kg | 7.03E+00 | 8.73E-06  | 4.27E-06 | 1.75E-05   |                   |
| 194  | 24 | Subsurface | Nickel     | mg/kg | 8.41E+01 | 1.04E-04  | 4.09E-05 | 7.02E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 24 | Subsurface | Total PAH  | mg/kg | 1.49E-02 | 1.85E-08  | 2.35E-08 | 9.19E-11   |                   |
| 194  | 24 | Subsurface | Cesium-137 | pCi/g | 2.13E-01 | 4.73E+02  |          | 3.18E-02   | 7.20E-01          |
| 194  | 25 | Subsurface | Aluminum   | mg/kg | 1.45E+04 | 1.80E-02  | 8.81E-03 | 1.21E-06   |                   |
| 194  | 25 | Subsurface | Arsenic    | mg/kg | 1.05E+01 | 1.30E-05  | 3.83E-06 | 8.77E-10   |                   |
| 194  | 25 | Subsurface | Barium     | mg/kg | 3.00E+02 | 3.72E-04  | 1.82E-04 | 2.50E-08   |                   |
| 194  | 25 | Subsurface | Beryllium  | mg/kg | 8.30E-01 | 1.03E-06  | 7.06E-08 | 6.92E-11   |                   |
| 194  | 25 | Subsurface | Chromium   | mg/kg | 5.23E+01 | 6.49E-05  | 3.18E-05 | 4.36E-09   |                   |
| 194  | 25 | Subsurface | Manganese  | mg/kg | 9.90E+02 | 1.23E-03  | 4.81E-04 | 8.26E-08   |                   |
| 194  | 25 | Subsurface | Nickel     | mg/kg | 6.33E+01 | 7.86E-05  | 3.08E-05 | 5.28E-09   |                   |
| 194  | 25 | Subsurface | Total PAH  | mg/kg | 2.06E-02 | 2.56E-08  | 3.25E-08 | 1.27E-10   |                   |
| 194  | 26 | Subsurface | Aluminum   | mg/kg | 1.21E+04 | 1.50E-02  | 7.34E-03 | 1.01E-06   |                   |
| 194  | 26 | Subsurface | Arsenic    | mg/kg | 9.09E+00 | 1.13E-05  | 3.31E-06 | 7.58E-10   |                   |
| 194  | 26 | Subsurface | Beryllium  | mg/kg | 7.31E-01 | 9.07E-07  | 6.22E-08 | 6.10E-11   |                   |
| 194  | 26 | Subsurface | Chromium   | mg/kg | 4.81E+01 | 5.97E-05  | 2.92E-05 | 4.01E-09   |                   |
| 194  | 26 | Subsurface | Cobalt     | mg/kg | 1.34E+01 | 1.67E-05  | 8.16E-06 | 1.12E-09   |                   |
| 194  | 26 | Subsurface | Manganese  | mg/kg | 6.25E+02 | 7.76E-04  | 3.04E-04 | 5.21E-08   |                   |
| 194  | 26 | Subsurface | Silver     | mg/kg | 1.03E+01 | 1.27E-05  | 4.99E-06 | 8.57E-10   |                   |
| 194  | 26 | Subsurface | Thallium   | mg/kg | 3.12E-01 | 3.87E-07  | 1.90E-07 | 2.60E-11   |                   |
| 194  | 26 | Subsurface | Vanadium   | mg/kg | 3.84E+01 | 4.77E-05  | 1.21E-05 | 3.20E-09   |                   |
| 194  | 27 | Subsurface | Antimony   | mg/kg | 4.96E-01 | 6.16E-07  | 3.01E-07 | 4.14E-11   |                   |
| 194  | 27 | Subsurface | Arsenic    | mg/kg | 1.07E+01 | 1.32E-05  | 3.88E-06 | 8.88E-10   |                   |
| 194  | 27 | Subsurface | Chromium   | mg/kg | 5.16E+01 | 6.41E-05  | 3.14E-05 | 4.31E-09   |                   |
| 194  | 27 | Subsurface | Nickel     | mg/kg | 6.55E+01 | 8.13E-05  | 3.18E-05 | 5.46E-09   |                   |
| 194  | 27 | Subsurface | Silver     | mg/kg | 1.03E+01 | 1.28E-05  | 5.01E-06 | 8.59E-10   |                   |
| 194  | 28 | Subsurface | Arsenic    | mg/kg | 1.13E+01 | 1.40E-05  | 4.11E-06 | 9.41E-10   |                   |
| 194  | 28 | Subsurface | Beryllium  | mg/kg | 7.41E-01 | 9.20E-07  | 6.30E-08 | 6.18E-11   |                   |
| 194  | 28 | Subsurface | Chromium   | mg/kg | 6.36E+01 | 7.89E-05  | 3.86E-05 | 5.30E-09   |                   |
| 194  | 28 | Subsurface | Manganese  | mg/kg | 1.21E+03 | 1.50E-03  | 5.86E-04 | 1.01E-07   |                   |
| 194  | 28 | Subsurface | Nickel     | mg/kg | 6.89E+01 | 8.55E-05  | 3.35E-05 | 5.75E-09   |                   |
| 194  | 28 | Subsurface | Silver     | mg/kg | 1.52E+01 | 1.89E-05  | 7.39E-06 | 1.27E-09   |                   |
| 194  | 28 | Subsurface | Vanadium   | mg/kg | 3.85E+01 | 4.78E-05  | 1.22E-05 | 3.21E-09   |                   |
| 194  | 29 | Subsurface | Aluminum   | mg/kg | 1.32E+04 | 1.64E-02  | 8.02E-03 | 1.10E-06   |                   |
| 194  | 29 | Subsurface | Antimony   | mg/kg | 7.10E-01 | 8.81E-07  | 4.31E-07 | 5.92E-11   |                   |
| 194  | 29 | Subsurface | Arsenic    | mg/kg | 1.43E+01 | 1.77E-05  | 5.21E-06 | 1.19E-09   |                   |
| 194  | 29 | Subsurface | Barium     | mg/kg | 1.88E+02 | 2.33E-04  | 1.14E-04 | 1.57E-08   |                   |
| 194  | 29 | Subsurface | Beryllium  | mg/kg | 8.20E-01 | 1.02E-06  | 6.98E-08 | 6.84E-11   |                   |
| 194  | 29 | Subsurface | Chromium   | mg/kg | 5.76E+01 | 7.15E-05  | 3.50E-05 | 4.80E-09   |                   |
| 194  | 29 | Subsurface | Cobalt     | mg/kg | 1.41E+01 | 1.75E-05  | 8.57E-06 | 1.18E-09   |                   |
| 194  | 29 | Subsurface | Manganese  | mg/kg | 2.65E+03 | 3.29E-03  | 1.29E-03 | 2.21E-07   |                   |
| 194  | 29 | Subsurface | Nickel     | mg/kg | 8.47E+01 | 1.05E-04  | 4.12E-05 | 7.06E-09   |                   |
| 194  | 29 | Subsurface | Silver     | mg/kg | 9.77E+00 | 1.21E-05  | 4.75E-06 | 8.15E-10   |                   |
| 194  | 29 | Subsurface | Thallium   | mg/kg | 4.40E-01 | 5.46E-07  | 2.67E-07 | 3.67E-11   |                   |
| 194  | 29 | Subsurface | Vanadium   | mg/kg | 4.12E+01 | 5.11E-05  | 1.30E-05 | 3.44E-09   |                   |
| 194  | 30 | Subsurface | Arsenic    | mg/kg | 9.44E+00 | 1.17E-05  | 3.44E-06 | 7.88E-10   |                   |
| 194  | 30 | Subsurface | Beryllium  | mg/kg | 3.16E+00 | 3.93E-06  | 2.69E-07 | 2.64E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 30 | Subsurface | Chromium      | mg/kg | 5.70E+01 | 7.08E-05  | 3.47E-05 | 4.76E-09   |                   |
| 194  | 30 | Subsurface | Manganese     | mg/kg | 6.15E+02 | 7.63E-04  | 2.99E-04 | 5.13E-08   |                   |
| 194  | 30 | Subsurface | Mercury       | mg/kg | 8.80E+00 | 1.09E-05  | 5.35E-06 | 2.19E-05   |                   |
| 194  | 30 | Subsurface | Nickel        | mg/kg | 6.99E+01 | 8.67E-05  | 3.40E-05 | 5.83E-09   |                   |
| 194  | 30 | Subsurface | Silver        | mg/kg | 1.04E+01 | 1.29E-05  | 5.05E-06 | 8.66E-10   |                   |
| 194  | 30 | Subsurface | Vanadium      | mg/kg | 2.79E+01 | 3.46E-05  | 8.81E-06 | 2.32E-09   |                   |
| 194  | 31 | Subsurface | Cesium-137    | pCi/g | 5.70E-01 | 1.27E+03  |          | 8.50E-02   | 1.93E+00          |
| 194  | 31 | Subsurface | Uranium-238   | pCi/g | 1.72E+00 | 3.82E+03  |          | 2.57E-01   | 5.81E+00          |
| 196  | 1  | Subsurface | Aluminum      | mg/kg | 1.79E+04 | 2.22E-02  | 1.09E-02 | 1.49E-06   |                   |
| 196  | 1  | Subsurface | Antimony      | mg/kg | 1.21E+02 | 1.50E-04  | 7.35E-05 | 1.01E-08   |                   |
| 196  | 1  | Subsurface | Arsenic       | mg/kg | 1.05E+01 | 1.30E-05  | 3.83E-06 | 8.76E-10   |                   |
| 196  | 1  | Subsurface | Barium        | mg/kg | 3.89E+02 | 4.83E-04  | 2.36E-04 | 3.24E-08   |                   |
| 196  | 1  | Subsurface | Beryllium     | mg/kg | 1.13E+02 | 1.40E-04  | 9.61E-06 | 9.43E-09   |                   |
| 196  | 1  | Subsurface | Cadmium       | mg/kg | 1.16E+02 | 1.44E-04  | 1.41E-06 | 9.68E-09   |                   |
| 196  | 1  | Subsurface | Chromium      | mg/kg | 1.12E+02 | 1.39E-04  | 6.81E-05 | 9.34E-09   |                   |
| 196  | 1  | Subsurface | Cobalt        | mg/kg | 1.12E+02 | 1.39E-04  | 6.81E-05 | 9.34E-09   |                   |
| 196  | 1  | Subsurface | Iron          | mg/kg | 2.96E+04 | 3.67E-02  | 1.80E-02 | 2.47E-06   |                   |
| 196  | 1  | Subsurface | Manganese     | mg/kg | 1.98E+03 | 2.46E-03  | 9.63E-04 | 1.65E-07   |                   |
| 196  | 1  | Subsurface | Nickel        | mg/kg | 5.87E+02 | 7.29E-04  | 2.85E-04 | 4.90E-08   |                   |
| 196  | 1  | Subsurface | Silver        | mg/kg | 6.54E+01 | 8.12E-05  | 3.18E-05 | 5.46E-09   |                   |
| 196  | 1  | Subsurface | Thallium      | mg/kg | 1.14E+02 | 1.42E-04  | 6.93E-05 | 9.51E-09   |                   |
| 196  | 1  | Subsurface | Uranium       | mg/kg | 2.33E+01 | 2.89E-05  | 1.42E-05 | 1.94E-09   |                   |
| 196  | 1  | Subsurface | Vanadium      | mg/kg | 4.38E+01 | 5.44E-05  | 1.38E-05 | 3.65E-09   |                   |
| 196  | 1  | Subsurface | Zinc          | mg/kg | 1.65E+03 | 2.05E-03  | 1.00E-03 | 1.38E-07   |                   |
| 196  | 1  | Subsurface | Neptunium-237 | pCi/g | 3.11E-01 | 6.90E+02  |          | 4.64E-02   | 1.05E+00          |
| 196  | 1  | Subsurface | Uranium-238   | pCi/g | 1.54E+00 | 3.42E+03  |          | 2.30E-01   | 5.20E+00          |
| 196  | 2  | Subsurface | Aluminum      | mg/kg | 1.69E+04 | 2.10E-02  | 1.03E-02 | 1.41E-06   |                   |
| 196  | 2  | Subsurface | Antimony      | mg/kg | 6.22E+01 | 7.72E-05  | 3.78E-05 | 5.19E-09   |                   |
| 196  | 2  | Subsurface | Arsenic       | mg/kg | 9.40E+00 | 1.17E-05  | 3.43E-06 | 7.84E-10   |                   |
| 196  | 2  | Subsurface | Barium        | mg/kg | 2.02E+02 | 2.51E-04  | 1.23E-04 | 1.69E-08   |                   |
| 196  | 2  | Subsurface | Cadmium       | mg/kg | 4.42E+00 | 5.49E-06  | 5.37E-08 | 3.69E-10   |                   |
| 196  | 2  | Subsurface | Nickel        | mg/kg | 8.01E+01 | 9.94E-05  | 3.89E-05 | 6.68E-09   |                   |
| 196  | 2  | Subsurface | PCB, Total    | mg/kg | 1.51E+00 | 1.87E-06  | 2.57E-06 | 2.12E-07   |                   |
| 196  | 2  | Subsurface | Selenium      | mg/kg | 6.29E+01 | 7.81E-05  | 3.82E-05 | 5.25E-09   |                   |
| 196  | 2  | Subsurface | Total PAH     | mg/kg | 9.04E+00 | 1.12E-05  | 1.43E-05 | 5.57E-08   |                   |
| 196  | 2  | Subsurface | Uranium-238   | pCi/g | 2.21E+00 | 4.91E+03  |          | 3.30E-01   | 7.47E+00          |
| 489  | 1  | Subsurface | Arsenic       | mg/kg | 1.00E+01 | 1.24E-05  | 3.65E-06 | 8.34E-10   |                   |
| 489  | 1  | Subsurface | Cadmium       | mg/kg | 8.70E-01 | 1.08E-06  | 1.06E-08 | 7.26E-11   |                   |
| 489  | 1  | Subsurface | Nickel        | mg/kg | 7.88E+01 | 9.78E-05  | 3.83E-05 | 6.58E-09   |                   |
| 489  | 1  | Subsurface | Total PAH     | mg/kg | 8.22E-02 | 1.02E-07  | 1.30E-07 | 5.07E-10   |                   |
| 489  | 1  | Subsurface | Uranium-238   | pCi/g | 1.47E+00 | 3.26E+03  |          | 2.19E-01   | 4.97E+00          |
| 531  | 1  | Subsurface | Antimony      | mg/kg | 1.00E+00 | 1.24E-06  | 6.08E-07 | 8.34E-11   |                   |
| 531  | 1  | Subsurface | Arsenic       | mg/kg | 4.68E+01 | 5.81E-05  | 1.71E-05 | 3.91E-09   |                   |
| 531  | 1  | Subsurface | Cadmium       | mg/kg | 3.10E+00 | 3.85E-06  | 3.77E-08 | 2.59E-10   |                   |
| 531  | 1  | Subsurface | Chromium      | mg/kg | 5.33E+01 | 6.62E-05  | 3.24E-05 | 4.45E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 531  | 1  | Subsurface | Iron              | mg/kg | 5.68E+04 | 7.06E-02  | 3.45E-02 | 4.74E-06   |                   |
| 531  | 1  | Subsurface | Manganese         | mg/kg | 8.65E+02 | 1.07E-03  | 4.21E-04 | 7.22E-08   |                   |
| 531  | 1  | Subsurface | Nickel            | mg/kg | 1.62E+02 | 2.01E-04  | 7.89E-05 | 1.35E-08   |                   |
| 531  | 1  | Subsurface | Total PAH         | mg/kg | 5.34E-02 | 6.63E-08  | 8.43E-08 | 3.29E-10   |                   |
| 531  | 1  | Subsurface | Uranium           | mg/kg | 2.41E+01 | 2.99E-05  | 1.46E-05 | 2.01E-09   |                   |
| 531  | 1  | Subsurface | Zinc              | mg/kg | 2.45E+03 | 3.04E-03  | 1.49E-03 | 2.05E-07   |                   |
| 531  | 1  | Subsurface | Uranium-235       | pCi/g | 1.38E-01 | 3.06E+02  |          | 2.06E-02   | 4.66E-01          |
| 531  | 1  | Subsurface | Uranium-238       | pCi/g | 3.48E+00 | 7.73E+03  |          | 5.19E-01   | 1.18E+01          |
| 200  | 1  | Subsurface | Antimony          | mg/kg | 3.82E-01 | 4.74E-07  | 2.32E-07 | 3.19E-11   |                   |
| 200  | 1  | Subsurface | Arsenic           | mg/kg | 9.73E+00 | 1.21E-05  | 3.55E-06 | 8.12E-10   |                   |
| 200  | 1  | Subsurface | Chromium          | mg/kg | 6.19E+01 | 7.68E-05  | 3.76E-05 | 5.16E-09   |                   |
| 200  | 1  | Subsurface | Manganese         | mg/kg | 4.60E+02 | 5.70E-04  | 2.23E-04 | 3.83E-08   |                   |
| 200  | 1  | Subsurface | Mercury           | mg/kg | 6.93E+00 | 8.60E-06  | 4.21E-06 | 1.72E-05   |                   |
| 200  | 1  | Subsurface | Nickel            | mg/kg | 1.26E+02 | 1.56E-04  | 6.11E-05 | 1.05E-08   |                   |
| 200  | 1  | Subsurface | PCB, Total        | mg/kg | 2.60E+00 | 3.23E-06  | 4.42E-06 | 3.66E-07   |                   |
| 200  | 1  | Subsurface | Silver            | mg/kg | 9.47E+00 | 1.18E-05  | 4.60E-06 | 7.90E-10   |                   |
| 200  | 1  | Subsurface | Total PAH         | mg/kg | 1.89E-02 | 2.35E-08  | 2.99E-08 | 1.17E-10   |                   |
| 200  | 1  | Subsurface | Uranium           | mg/kg | 2.65E+01 | 3.29E-05  | 1.61E-05 | 2.21E-09   |                   |
| 200  | 1  | Subsurface | Cesium-137        | pCi/g | 4.68E-01 | 1.04E+03  |          | 6.98E-02   | 1.58E+00          |
| 200  | 1  | Subsurface | Uranium-235       | pCi/g | 1.14E-01 | 2.53E+02  |          | 1.70E-02   | 3.85E-01          |
| 200  | 1  | Subsurface | Uranium-238       | pCi/g | 2.79E+00 | 6.20E+03  |          | 4.17E-01   | 9.44E+00          |
| 212  | 1  | Subsurface | Antimony          | mg/kg | 1.40E+00 | 1.74E-06  | 8.51E-07 | 1.17E-10   |                   |
| 212  | 1  | Subsurface | Arsenic           | mg/kg | 1.44E+01 | 1.79E-05  | 5.26E-06 | 1.20E-09   |                   |
| 212  | 1  | Subsurface | Barium            | mg/kg | 1.92E+02 | 2.38E-04  | 1.17E-04 | 1.60E-08   |                   |
| 212  | 1  | Subsurface | Beryllium         | mg/kg | 8.90E-01 | 1.10E-06  | 7.57E-08 | 7.42E-11   |                   |
| 212  | 1  | Subsurface | Chromium          | mg/kg | 6.66E+01 | 8.27E-05  | 4.05E-05 | 5.56E-09   |                   |
| 212  | 1  | Subsurface | Cobalt            | mg/kg | 1.76E+01 | 2.18E-05  | 1.07E-05 | 1.47E-09   |                   |
| 212  | 1  | Subsurface | Iron              | mg/kg | 4.14E+04 | 5.14E-02  | 2.52E-02 | 3.45E-06   |                   |
| 212  | 1  | Subsurface | Manganese         | mg/kg | 1.44E+03 | 1.79E-03  | 7.00E-04 | 1.20E-07   |                   |
| 212  | 1  | Subsurface | Mercury           | mg/kg | 6.94E+00 | 8.61E-06  | 4.22E-06 | 1.73E-05   |                   |
| 212  | 1  | Subsurface | Nickel            | mg/kg | 8.69E+01 | 1.08E-04  | 4.23E-05 | 7.25E-09   |                   |
| 212  | 1  | Subsurface | PCB, Total        | mg/kg | 1.80E-01 | 2.23E-07  | 3.06E-07 | 2.53E-08   |                   |
| 212  | 1  | Subsurface | Silver            | mg/kg | 1.55E+01 | 1.93E-05  | 7.55E-06 | 1.29E-09   |                   |
| 212  | 1  | Subsurface | Uranium           | mg/kg | 2.30E+01 | 2.85E-05  | 1.40E-05 | 1.92E-09   |                   |
| 212  | 1  | Subsurface | Vanadium          | mg/kg | 5.33E+01 | 6.62E-05  | 1.68E-05 | 4.45E-09   |                   |
| 212  | 1  | Subsurface | Cesium-137        | pCi/g | 6.01E-01 | 1.33E+03  |          | 8.97E-02   | 2.03E+00          |
| 212  | 1  | Subsurface | Cobalt-60         | pCi/g | 8.76E-03 | 1.94E+01  |          | 1.31E-03   | 2.96E-02          |
| 212  | 1  | Subsurface | Neptunium-237     | pCi/g | 4.00E+00 | 8.88E+03  |          | 5.97E-01   | 1.35E+01          |
| 212  | 1  | Subsurface | Plutonium-239/240 | pCi/g | 6.71E+00 | 1.49E+04  |          | 1.00E+00   | 2.27E+01          |
| 212  | 1  | Subsurface | Thorium-230       | pCi/g | 2.60E+02 | 5.77E+05  |          | 3.88E+01   | 8.79E+02          |
| 212  | 1  | Subsurface | Uranium-235       | pCi/g | 2.09E-01 | 4.64E+02  |          | 3.12E-02   | 7.06E-01          |
| 212  | 1  | Subsurface | Uranium-238       | pCi/g | 3.17E+00 | 7.04E+03  |          | 4.73E-01   | 1.07E+01          |
| 213  | 1  | Subsurface | Antimony          | mg/kg | 8.50E-01 | 1.06E-06  | 5.17E-07 | 7.09E-11   |                   |
| 213  | 1  | Subsurface | Arsenic           | mg/kg | 9.21E+00 | 1.14E-05  | 3.36E-06 | 7.68E-10   |                   |
| 213  | 1  | Subsurface | Chromium          | mg/kg | 5.47E+01 | 6.78E-05  | 3.32E-05 | 4.56E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC               | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|--------------------|-------|----------|-----------|----------|------------|-------------------|
| 213  | 1  | Subsurface | Manganese          | mg/kg | 9.06E+02 | 1.12E-03  | 4.41E-04 | 7.56E-08   |                   |
| 213  | 1  | Subsurface | Nickel             | mg/kg | 6.67E+01 | 8.28E-05  | 3.24E-05 | 5.57E-09   |                   |
| 213  | 1  | Subsurface | PCB, Total         | mg/kg | 7.30E-02 | 9.06E-08  | 1.24E-07 | 1.03E-08   |                   |
| 213  | 1  | Subsurface | Silver             | mg/kg | 1.32E+01 | 1.63E-05  | 6.40E-06 | 1.10E-09   |                   |
| 213  | 1  | Subsurface | Total PAH          | mg/kg | 1.72E-01 | 2.13E-07  | 2.72E-07 | 1.06E-09   |                   |
| 213  | 1  | Subsurface | Uranium-238        | pCi/g | 2.33E+00 | 5.17E+03  |          | 3.48E-01   | 7.87E+00          |
| 213  | 2  | Subsurface | Chromium           | mg/kg | 6.77E+01 | 8.41E-05  | 4.12E-05 | 5.65E-09   |                   |
| 213  | 2  | Subsurface | Manganese          | mg/kg | 2.10E+03 | 2.61E-03  | 1.02E-03 | 1.76E-07   |                   |
| 213  | 2  | Subsurface | Nickel             | mg/kg | 9.10E+01 | 1.13E-04  | 4.42E-05 | 7.59E-09   |                   |
| 213  | 2  | Subsurface | Silver             | mg/kg | 1.13E+01 | 1.40E-05  | 5.47E-06 | 9.39E-10   |                   |
| 214  | 1  | Subsurface | Antimony           | mg/kg | 5.70E-01 | 7.08E-07  | 3.46E-07 | 4.75E-11   |                   |
| 214  | 1  | Subsurface | Arsenic            | mg/kg | 1.15E+01 | 1.43E-05  | 4.20E-06 | 9.61E-10   |                   |
| 215  | 1  | Subsurface | Antimony           | mg/kg | 6.80E-01 | 8.44E-07  | 4.13E-07 | 5.67E-11   |                   |
| 215  | 1  | Subsurface | Arsenic            | mg/kg | 1.02E+01 | 1.26E-05  | 3.70E-06 | 8.48E-10   |                   |
| 215  | 1  | Subsurface | Chromium           | mg/kg | 5.73E+01 | 7.11E-05  | 3.48E-05 | 4.78E-09   |                   |
| 215  | 1  | Subsurface | Iron               | mg/kg | 3.87E+04 | 4.80E-02  | 2.35E-02 | 3.23E-06   |                   |
| 215  | 1  | Subsurface | Nickel             | mg/kg | 7.32E+01 | 9.08E-05  | 3.56E-05 | 6.10E-09   |                   |
| 215  | 1  | Subsurface | Silver             | mg/kg | 9.51E+00 | 1.18E-05  | 4.62E-06 | 7.93E-10   |                   |
| 215  | 1  | Subsurface | Total PAH          | mg/kg | 5.00E-01 | 6.21E-07  | 7.90E-07 | 3.08E-09   |                   |
| 216  | 1  | Subsurface | Arsenic            | mg/kg | 8.60E+00 | 1.07E-05  | 3.14E-06 | 7.17E-10   |                   |
| 216  | 1  | Subsurface | Total PAH          | mg/kg | 1.49E-01 | 1.85E-07  | 2.36E-07 | 9.21E-10   |                   |
| 216  | 1  | Subsurface | Cesium-137         | pCi/g | 4.10E-01 | 9.10E+02  |          | 6.12E-02   | 1.39E+00          |
| 216  | 1  | Subsurface | Uranium-238        | pCi/g | 1.33E+00 | 2.95E+03  |          | 1.98E-01   | 4.49E+00          |
| 217  | 1  | Subsurface | Arsenic            | mg/kg | 9.42E+00 | 1.17E-05  | 3.44E-06 | 7.86E-10   |                   |
| 217  | 1  | Subsurface | Chromium           | mg/kg | 6.53E+01 | 8.11E-05  | 3.97E-05 | 5.45E-09   |                   |
| 217  | 1  | Subsurface | Cobalt             | mg/kg | 1.64E+01 | 2.04E-05  | 9.97E-06 | 1.37E-09   |                   |
| 217  | 1  | Subsurface | Manganese          | mg/kg | 9.97E+02 | 1.24E-03  | 4.85E-04 | 8.32E-08   |                   |
| 217  | 1  | Subsurface | Mercury            | mg/kg | 7.37E+00 | 9.15E-06  | 4.48E-06 | 1.83E-05   |                   |
| 217  | 1  | Subsurface | Nickel             | mg/kg | 8.71E+01 | 1.08E-04  | 4.23E-05 | 7.26E-09   |                   |
| 217  | 1  | Subsurface | Silver             | mg/kg | 1.35E+01 | 1.67E-05  | 6.54E-06 | 1.12E-09   |                   |
| 217  | 1  | Subsurface | Vanadium           | mg/kg | 3.00E+01 | 3.72E-05  | 9.48E-06 | 2.50E-09   |                   |
| 217  | 1  | Subsurface | Uranium-238        | pCi/g | 1.09E+00 | 2.43E+03  |          | 1.63E-01   | 3.70E+00          |
| 217  | 2  | Subsurface | 1,1-Dichloroethene | mg/kg | 1.88E-02 | 2.33E-08  | 5.71E-08 | 1.42E-06   |                   |
| 217  | 2  | Subsurface | Aluminum           | mg/kg | 1.02E+04 | 1.27E-02  | 6.22E-03 | 8.54E-07   |                   |
| 217  | 2  | Subsurface | Antimony           | mg/kg | 3.10E+00 | 3.85E-06  | 1.88E-06 | 2.59E-10   |                   |
| 217  | 2  | Subsurface | Arsenic            | mg/kg | 9.97E+00 | 1.24E-05  | 3.64E-06 | 8.32E-10   |                   |
| 217  | 2  | Subsurface | Beryllium          | mg/kg | 5.85E-01 | 7.26E-07  | 4.98E-08 | 4.88E-11   |                   |
| 217  | 2  | Subsurface | Chromium           | mg/kg | 6.61E+01 | 8.20E-05  | 4.01E-05 | 5.51E-09   |                   |
| 217  | 2  | Subsurface | Cobalt             | mg/kg | 8.29E+01 | 1.03E-04  | 5.04E-05 | 6.92E-09   |                   |
| 217  | 2  | Subsurface | Iron               | mg/kg | 3.04E+04 | 3.78E-02  | 1.85E-02 | 2.54E-06   |                   |
| 217  | 2  | Subsurface | Manganese          | mg/kg | 9.50E+02 | 1.18E-03  | 4.62E-04 | 7.92E-08   |                   |
| 217  | 2  | Subsurface | Mercury            | mg/kg | 9.20E+00 | 1.14E-05  | 5.59E-06 | 2.29E-05   |                   |
| 217  | 2  | Subsurface | Nickel             | mg/kg | 7.88E+01 | 9.78E-05  | 3.83E-05 | 6.57E-09   |                   |
| 217  | 2  | Subsurface | Silver             | mg/kg | 1.61E+01 | 2.00E-05  | 7.82E-06 | 1.34E-09   |                   |
| 217  | 2  | Subsurface | Total PAH          | mg/kg | 4.06E-01 | 5.04E-07  | 6.41E-07 | 2.50E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 217  | 2  | Subsurface | Vanadium      | mg/kg | 2.87E+01 | 3.56E-05  | 9.07E-06 | 2.39E-09   |                   |
| 221  | 1  | Subsurface | Aluminum      | mg/kg | 2.36E+04 | 2.93E-02  | 1.43E-02 | 1.97E-06   |                   |
| 221  | 1  | Subsurface | Antimony      | mg/kg | 5.78E-01 | 7.17E-07  | 3.51E-07 | 4.82E-11   |                   |
| 221  | 1  | Subsurface | Arsenic       | mg/kg | 1.24E+01 | 1.54E-05  | 4.51E-06 | 1.03E-09   |                   |
| 221  | 1  | Subsurface | Barium        | mg/kg | 8.64E+02 | 1.07E-03  | 5.25E-04 | 7.21E-08   |                   |
| 221  | 1  | Subsurface | Beryllium     | mg/kg | 1.55E+00 | 1.93E-06  | 1.32E-07 | 1.30E-10   |                   |
| 221  | 1  | Subsurface | Chromium      | mg/kg | 6.57E+01 | 8.15E-05  | 3.99E-05 | 5.48E-09   |                   |
| 221  | 1  | Subsurface | Cobalt        | mg/kg | 7.22E+01 | 8.96E-05  | 4.38E-05 | 6.02E-09   |                   |
| 221  | 1  | Subsurface | Iron          | mg/kg | 3.86E+04 | 4.79E-02  | 2.34E-02 | 3.22E-06   |                   |
| 221  | 1  | Subsurface | Manganese     | mg/kg | 4.39E+03 | 5.44E-03  | 2.13E-03 | 3.66E-07   |                   |
| 221  | 1  | Subsurface | Mercury       | mg/kg | 1.23E+01 | 1.53E-05  | 7.47E-06 | 3.06E-05   |                   |
| 221  | 1  | Subsurface | Nickel        | mg/kg | 9.46E+01 | 1.17E-04  | 4.60E-05 | 7.89E-09   |                   |
| 221  | 1  | Subsurface | PCB, Total    | mg/kg | 5.00E-01 | 6.21E-07  | 8.51E-07 | 7.03E-08   |                   |
| 221  | 1  | Subsurface | Silver        | mg/kg | 9.74E+00 | 1.21E-05  | 4.74E-06 | 8.12E-10   |                   |
| 221  | 1  | Subsurface | Thallium      | mg/kg | 1.24E+00 | 1.53E-06  | 7.51E-07 | 1.03E-10   |                   |
| 221  | 1  | Subsurface | Total PAH     | mg/kg | 1.02E+00 | 1.27E-06  | 1.62E-06 | 6.31E-09   |                   |
| 221  | 1  | Subsurface | Uranium       | mg/kg | 1.46E+01 | 1.81E-05  | 8.88E-06 | 1.22E-09   |                   |
| 221  | 1  | Subsurface | Vanadium      | mg/kg | 5.36E+01 | 6.65E-05  | 1.69E-05 | 4.47E-09   |                   |
| 221  | 1  | Subsurface | Uranium-238   | pCi/g | 1.93E+00 | 4.28E+03  |          | 2.88E-01   | 6.52E+00          |
| 222  | 1  | Subsurface | Aluminum      | mg/kg | 1.11E+04 | 1.37E-02  | 6.72E-03 | 9.23E-07   |                   |
| 222  | 1  | Subsurface | Arsenic       | mg/kg | 1.02E+01 | 1.26E-05  | 3.71E-06 | 8.49E-10   |                   |
| 222  | 1  | Subsurface | Chromium      | mg/kg | 6.48E+01 | 8.04E-05  | 3.94E-05 | 5.40E-09   |                   |
| 222  | 1  | Subsurface | Manganese     | mg/kg | 6.33E+02 | 7.85E-04  | 3.08E-04 | 5.28E-08   |                   |
| 222  | 1  | Subsurface | Nickel        | mg/kg | 9.19E+01 | 1.14E-04  | 4.47E-05 | 7.67E-09   |                   |
| 222  | 1  | Subsurface | PCB, Total    | mg/kg | 9.67E-01 | 1.20E-06  | 1.65E-06 | 1.36E-07   |                   |
| 222  | 1  | Subsurface | Total PAH     | mg/kg | 1.77E-01 | 2.20E-07  | 2.80E-07 | 1.09E-09   |                   |
| 222  | 1  | Subsurface | Uranium       | mg/kg | 2.77E+01 | 3.44E-05  | 1.69E-05 | 2.31E-09   |                   |
| 222  | 1  | Subsurface | Cesium-137    | pCi/g | 2.99E-01 | 6.64E+02  |          | 4.46E-02   | 1.01E+00          |
| 222  | 1  | Subsurface | Cobalt-60     | pCi/g | 6.54E-03 | 1.45E+01  |          | 9.76E-04   | 2.21E-02          |
| 222  | 1  | Subsurface | Uranium-234   | pCi/g | 7.04E+00 | 1.56E+04  |          | 1.05E+00   | 2.38E+01          |
| 222  | 1  | Subsurface | Uranium-235   | pCi/g | 7.10E-01 | 1.58E+03  |          | 1.06E-01   | 2.40E+00          |
| 222  | 1  | Subsurface | Uranium-238   | pCi/g | 1.54E+01 | 3.42E+04  |          | 2.30E+00   | 5.20E+01          |
| 227  | 1  | Subsurface | Arsenic       | mg/kg | 8.46E+00 | 1.05E-05  | 3.08E-06 | 7.06E-10   |                   |
| 227  | 1  | Subsurface | Beryllium     | mg/kg | 5.50E-01 | 6.83E-07  | 4.68E-08 | 4.59E-11   |                   |
| 227  | 1  | Subsurface | Chromium      | mg/kg | 5.34E+01 | 6.63E-05  | 3.25E-05 | 4.46E-09   |                   |
| 227  | 1  | Subsurface | Nickel        | mg/kg | 1.99E+02 | 2.47E-04  | 9.67E-05 | 1.66E-08   |                   |
| 227  | 1  | Subsurface | PCB, Total    | mg/kg | 3.94E+00 | 4.89E-06  | 6.70E-06 | 5.54E-07   |                   |
| 227  | 1  | Subsurface | Thallium      | mg/kg | 5.10E-01 | 6.33E-07  | 3.10E-07 | 4.25E-11   |                   |
| 227  | 1  | Subsurface | Total PAH     | mg/kg | 3.38E-01 | 4.19E-07  | 5.34E-07 | 2.08E-09   |                   |
| 227  | 1  | Subsurface | Uranium       | mg/kg | 1.02E+02 | 1.26E-04  | 6.17E-05 | 8.48E-09   |                   |
| 227  | 1  | Subsurface | Cesium-137    | pCi/g | 1.67E-01 | 3.71E+02  |          | 2.49E-02   | 5.64E-01          |
| 227  | 1  | Subsurface | Cobalt-60     | pCi/g | 1.53E-02 | 3.40E+01  |          | 2.28E-03   | 5.17E-02          |
| 227  | 1  | Subsurface | Neptunium-237 | pCi/g | 7.95E-01 | 1.76E+03  |          | 1.19E-01   | 2.69E+00          |
| 227  | 1  | Subsurface | Technetium-99 | pCi/g | 4.18E+01 | 9.28E+04  |          | 6.23E+00   | 1.41E+02          |
| 227  | 1  | Subsurface | Uranium-234   | pCi/g | 1.40E+01 | 3.11E+04  |          | 2.09E+00   | 4.73E+01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 227  | 1  | Subsurface | Uranium-235   | pCi/g | 1.35E+00 | 2.99E+03  |          | 2.01E-01   | 4.55E+00          |
| 227  | 1  | Subsurface | Uranium-238   | pCi/g | 4.18E+01 | 9.28E+04  |          | 6.24E+00   | 1.41E+02          |
| 227  | 2  | Subsurface | Arsenic       | mg/kg | 8.34E+00 | 1.04E-05  | 3.04E-06 | 6.96E-10   |                   |
| 227  | 2  | Subsurface | Barium        | mg/kg | 1.35E+02 | 1.68E-04  | 8.21E-05 | 1.13E-08   |                   |
| 227  | 2  | Subsurface | Beryllium     | mg/kg | 5.63E-01 | 6.99E-07  | 4.79E-08 | 4.70E-11   |                   |
| 227  | 2  | Subsurface | Chromium      | mg/kg | 4.55E+01 | 5.64E-05  | 2.76E-05 | 3.79E-09   |                   |
| 227  | 2  | Subsurface | Cobalt        | mg/kg | 1.06E+01 | 1.32E-05  | 6.45E-06 | 8.85E-10   |                   |
| 227  | 2  | Subsurface | Manganese     | mg/kg | 7.38E+02 | 9.16E-04  | 3.59E-04 | 6.15E-08   |                   |
| 227  | 2  | Subsurface | Mercury       | mg/kg | 8.32E+00 | 1.03E-05  | 5.06E-06 | 2.07E-05   |                   |
| 227  | 2  | Subsurface | Nickel        | mg/kg | 1.23E+02 | 1.53E-04  | 5.98E-05 | 1.03E-08   |                   |
| 227  | 2  | Subsurface | PCB, Total    | mg/kg | 4.75E+00 | 5.89E-06  | 8.08E-06 | 6.68E-07   |                   |
| 227  | 2  | Subsurface | Silver        | mg/kg | 8.52E+00 | 1.06E-05  | 4.14E-06 | 7.11E-10   |                   |
| 227  | 2  | Subsurface | Total PAH     | mg/kg | 1.16E-01 | 1.44E-07  | 1.83E-07 | 7.14E-10   |                   |
| 227  | 2  | Subsurface | Uranium       | mg/kg | 1.51E+01 | 1.87E-05  | 9.15E-06 | 1.26E-09   |                   |
| 227  | 2  | Subsurface | Vanadium      | mg/kg | 2.46E+01 | 3.05E-05  | 7.76E-06 | 2.05E-09   |                   |
| 227  | 2  | Subsurface | Cobalt-60     | pCi/g | 1.37E-02 | 3.04E+01  |          | 2.04E-03   | 4.63E-02          |
| 227  | 2  | Subsurface | Neptunium-237 | pCi/g | 3.83E-02 | 8.50E+01  |          | 5.71E-03   | 1.29E-01          |
| 227  | 2  | Subsurface | Uranium-238   | pCi/g | 1.57E+00 | 3.49E+03  |          | 2.35E-01   | 5.32E+00          |
| 228  | 1  | Subsurface | Antimony      | mg/kg | 6.30E-01 | 7.82E-07  | 3.83E-07 | 5.26E-11   |                   |
| 228  | 1  | Subsurface | Arsenic       | mg/kg | 2.79E+01 | 3.46E-05  | 1.02E-05 | 2.33E-09   |                   |
| 228  | 1  | Subsurface | Beryllium     | mg/kg | 7.50E-01 | 9.31E-07  | 6.38E-08 | 6.26E-11   |                   |
| 228  | 1  | Subsurface | Cadmium       | mg/kg | 3.90E+00 | 4.84E-06  | 4.74E-08 | 3.25E-10   |                   |
| 228  | 1  | Subsurface | Chromium      | mg/kg | 1.89E+02 | 2.34E-04  | 1.15E-04 | 1.58E-08   |                   |
| 228  | 1  | Subsurface | Iron          | mg/kg | 3.77E+04 | 4.68E-02  | 2.29E-02 | 3.15E-06   |                   |
| 228  | 1  | Subsurface | Manganese     | mg/kg | 9.97E+02 | 1.24E-03  | 4.85E-04 | 8.32E-08   |                   |
| 228  | 1  | Subsurface | Mercury       | mg/kg | 9.37E+00 | 1.16E-05  | 5.69E-06 | 2.33E-05   |                   |
| 228  | 1  | Subsurface | Nickel        | mg/kg | 7.92E+01 | 9.83E-05  | 3.85E-05 | 6.60E-09   |                   |
| 228  | 1  | Subsurface | Silver        | mg/kg | 1.16E+01 | 1.44E-05  | 5.65E-06 | 9.70E-10   |                   |
| 228  | 1  | Subsurface | Total PAH     | mg/kg | 6.69E-02 | 8.30E-08  | 1.06E-07 | 4.12E-10   |                   |
| 228  | 1  | Subsurface | Uranium       | mg/kg | 1.51E+01 | 1.88E-05  | 9.19E-06 | 1.26E-09   |                   |
| 228  | 1  | Subsurface | Cobalt-60     | pCi/g | 1.29E-02 | 2.86E+01  |          | 1.92E-03   | 4.36E-02          |
| 228  | 1  | Subsurface | Neptunium-237 | pCi/g | 8.00E-01 | 1.78E+03  |          | 1.19E-01   | 2.70E+00          |
| 228  | 1  | Subsurface | Uranium-235   | pCi/g | 1.78E-01 | 3.95E+02  |          | 2.66E-02   | 6.01E-01          |
| 228  | 1  | Subsurface | Uranium-238   | pCi/g | 3.77E+00 | 8.37E+03  |          | 5.62E-01   | 1.27E+01          |
| 27   | 1  | Subsurface | Nickel        | mg/kg | 3.97E+01 | 4.93E-05  | 1.93E-05 | 3.31E-09   |                   |
| 27   | 1  | Subsurface | PCB, Total    | mg/kg | 7.20E-02 | 8.94E-08  | 1.23E-07 | 1.01E-08   |                   |
| 27   | 1  | Subsurface | Cobalt-60     | pCi/g | 1.01E-02 | 2.24E+01  |          | 1.51E-03   | 3.41E-02          |
| 76   | 1  | Subsurface | Arsenic       | mg/kg | 1.31E+01 | 1.63E-05  | 4.78E-06 | 1.09E-09   |                   |
| 76   | 1  | Subsurface | Barium        | mg/kg | 2.69E+02 | 3.34E-04  | 1.63E-04 | 2.24E-08   |                   |
| 76   | 1  | Subsurface | Mercury       | mg/kg | 7.45E+00 | 9.25E-06  | 4.53E-06 | 1.85E-05   |                   |
| 76   | 1  | Subsurface | PCB, Total    | mg/kg | 2.60E-01 | 3.23E-07  | 4.42E-07 | 3.66E-08   |                   |
| 76   | 1  | Subsurface | Total PAH     | mg/kg | 1.76E+00 | 2.18E-06  | 2.78E-06 | 1.08E-08   |                   |
| 76   | 1  | Subsurface | Uranium-238   | pCi/g | 1.45E+00 | 3.22E+03  |          | 2.16E-01   | 4.90E+00          |
| 165  | 1  | Subsurface | Aluminum      | mg/kg | 8.41E+03 | 1.04E-02  | 5.11E-03 | 7.01E-07   |                   |
| 165  | 1  | Subsurface | Antimony      | mg/kg | 2.20E+00 | 2.73E-06  | 1.34E-06 | 1.84E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 165  | 1  | Subsurface | Arsenic           | mg/kg | 6.37E+01 | 7.91E-05  | 2.32E-05 | 5.31E-09   |                   |
| 165  | 1  | Subsurface | Barium            | mg/kg | 5.25E+02 | 6.52E-04  | 3.19E-04 | 4.38E-08   |                   |
| 165  | 1  | Subsurface | Beryllium         | mg/kg | 8.14E-01 | 1.01E-06  | 6.93E-08 | 6.79E-11   |                   |
| 165  | 1  | Subsurface | Chromium          | mg/kg | 3.61E+01 | 4.48E-05  | 2.19E-05 | 3.01E-09   |                   |
| 165  | 1  | Subsurface | Cobalt            | mg/kg | 8.44E+00 | 1.05E-05  | 5.13E-06 | 7.04E-10   |                   |
| 165  | 1  | Subsurface | Mercury           | mg/kg | 3.77E-01 | 4.68E-07  | 2.29E-07 | 9.37E-07   |                   |
| 165  | 1  | Subsurface | Naphthalene       | mg/kg | 1.51E+00 | 1.87E-06  | 4.57E-06 | 4.18E-06   |                   |
| 165  | 1  | Subsurface | Nickel            | mg/kg | 3.36E+01 | 4.17E-05  | 1.63E-05 | 2.80E-09   |                   |
| 165  | 1  | Subsurface | PCB, Total        | mg/kg | 9.89E+00 | 1.23E-05  | 1.68E-05 | 1.39E-06   |                   |
| 165  | 1  | Subsurface | Silver            | mg/kg | 3.09E+01 | 3.84E-05  | 1.50E-05 | 2.58E-09   |                   |
| 165  | 1  | Subsurface | Total PAH         | mg/kg | 1.87E+00 | 2.32E-06  | 2.95E-06 | 1.15E-08   |                   |
| 165  | 1  | Subsurface | Uranium           | mg/kg | 1.08E+02 | 1.33E-04  | 6.53E-05 | 8.97E-09   |                   |
| 165  | 1  | Subsurface | Cesium-137        | pCi/g | 3.47E+00 | 7.71E+03  |          | 5.18E-01   | 1.17E+01          |
| 165  | 1  | Subsurface | Neptunium-237     | pCi/g | 4.26E-01 | 9.46E+02  |          | 6.36E-02   | 1.44E+00          |
| 165  | 1  | Subsurface | Plutonium-239/240 | pCi/g | 2.81E+00 | 6.23E+03  |          | 4.18E-01   | 9.48E+00          |
| 165  | 1  | Subsurface | Thorium-230       | pCi/g | 6.02E+00 | 1.34E+04  |          | 8.98E-01   | 2.03E+01          |
| 165  | 1  | Subsurface | Uranium-234       | pCi/g | 5.76E+01 | 1.28E+05  |          | 8.60E+00   | 1.95E+02          |
| 165  | 1  | Subsurface | Uranium-235       | pCi/g | 2.06E+00 | 4.58E+03  |          | 3.07E-01   | 6.96E+00          |
| 165  | 1  | Subsurface | Uranium-238       | pCi/g | 6.42E+01 | 1.42E+05  |          | 9.58E+00   | 2.17E+02          |
| 170  | 1  | Subsurface | Cesium-137        | pCi/g | 3.35E-01 | 7.44E+02  |          | 5.00E-02   | 1.13E+00          |
| 170  | 1  | Subsurface | Cobalt-60         | pCi/g | 9.50E-03 | 2.11E+01  |          | 1.42E-03   | 3.21E-02          |
| 170  | 1  | Subsurface | Neptunium-237     | pCi/g | 1.15E-01 | 2.55E+02  |          | 1.72E-02   | 3.89E-01          |
| 170  | 1  | Subsurface | Uranium-238       | pCi/g | 2.55E+00 | 5.66E+03  |          | 3.80E-01   | 8.62E+00          |
| 158  | 1  | Subsurface | Antimony          | mg/kg | 4.90E-01 | 6.08E-07  | 2.98E-07 | 4.09E-11   |                   |
| 158  | 1  | Subsurface | Arsenic           | mg/kg | 9.51E+00 | 1.18E-05  | 3.47E-06 | 7.94E-10   |                   |
| 158  | 1  | Subsurface | Barium            | mg/kg | 1.64E+02 | 2.04E-04  | 9.98E-05 | 1.37E-08   |                   |
| 158  | 1  | Subsurface | Beryllium         | mg/kg | 5.69E-01 | 7.06E-07  | 4.84E-08 | 4.75E-11   |                   |
| 158  | 1  | Subsurface | Chromium          | mg/kg | 5.11E+01 | 6.35E-05  | 3.11E-05 | 4.27E-09   |                   |
| 158  | 1  | Subsurface | Cobalt            | mg/kg | 1.26E+01 | 1.56E-05  | 7.63E-06 | 1.05E-09   |                   |
| 158  | 1  | Subsurface | Manganese         | mg/kg | 1.04E+03 | 1.30E-03  | 5.08E-04 | 8.71E-08   |                   |
| 158  | 1  | Subsurface | Mercury           | mg/kg | 1.05E+01 | 1.30E-05  | 6.36E-06 | 2.60E-05   |                   |
| 158  | 1  | Subsurface | Nickel            | mg/kg | 8.12E+01 | 1.01E-04  | 3.95E-05 | 6.77E-09   |                   |
| 158  | 1  | Subsurface | Silver            | mg/kg | 1.01E+01 | 1.25E-05  | 4.90E-06 | 8.40E-10   |                   |
| 158  | 1  | Subsurface | Thallium          | mg/kg | 3.69E-01 | 4.58E-07  | 2.24E-07 | 3.08E-11   |                   |
| 158  | 1  | Subsurface | Total PAH         | mg/kg | 4.78E-01 | 5.94E-07  | 7.56E-07 | 2.95E-09   |                   |
| 158  | 1  | Subsurface | Uranium           | mg/kg | 2.03E+01 | 2.52E-05  | 1.23E-05 | 1.69E-09   |                   |
| 158  | 1  | Subsurface | Neptunium-237     | pCi/g | 5.96E-02 | 1.32E+02  |          | 8.89E-03   | 2.01E-01          |
| 158  | 1  | Subsurface | Uranium-235       | pCi/g | 1.40E-01 | 3.11E+02  |          | 2.09E-02   | 4.73E-01          |
| 158  | 1  | Subsurface | Uranium-238       | pCi/g | 3.16E+00 | 7.01E+03  |          | 4.71E-01   | 1.07E+01          |
| 169  | 1  | Subsurface | Aluminum          | mg/kg | 2.06E+04 | 2.56E-02  | 1.25E-02 | 1.72E-06   |                   |
| 169  | 1  | Subsurface | Antimony          | mg/kg | 1.30E+00 | 1.61E-06  | 7.90E-07 | 1.08E-10   |                   |
| 169  | 1  | Subsurface | Arsenic           | mg/kg | 2.03E+01 | 2.52E-05  | 7.40E-06 | 1.69E-09   |                   |
| 169  | 1  | Subsurface | Barium            | mg/kg | 2.81E+02 | 3.49E-04  | 1.71E-04 | 2.34E-08   |                   |
| 169  | 1  | Subsurface | Beryllium         | mg/kg | 2.30E+00 | 2.85E-06  | 1.96E-07 | 1.92E-10   |                   |
| 169  | 1  | Subsurface | Chromium          | mg/kg | 2.15E+02 | 2.67E-04  | 1.31E-04 | 1.79E-08   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 169  | 1  | Subsurface | Cobalt      | mg/kg | 7.80E+01 | 9.68E-05  | 4.74E-05 | 6.51E-09   |                   |
| 169  | 1  | Subsurface | Copper      | mg/kg | 4.28E+02 | 5.31E-04  | 2.60E-04 | 3.57E-08   |                   |
| 169  | 1  | Subsurface | Iron        | mg/kg | 4.16E+04 | 5.16E-02  | 2.53E-02 | 3.47E-06   |                   |
| 169  | 1  | Subsurface | Manganese   | mg/kg | 1.58E+03 | 1.96E-03  | 7.68E-04 | 1.32E-07   |                   |
| 169  | 1  | Subsurface | Mercury     | mg/kg | 7.87E+00 | 9.77E-06  | 4.78E-06 | 1.96E-05   |                   |
| 169  | 1  | Subsurface | Nickel      | mg/kg | 8.04E+02 | 9.98E-04  | 3.91E-04 | 6.71E-08   |                   |
| 169  | 1  | Subsurface | PCB, Total  | mg/kg | 1.00E+01 | 1.24E-05  | 1.70E-05 | 1.41E-06   |                   |
| 169  | 1  | Subsurface | Thallium    | mg/kg | 4.60E-01 | 5.71E-07  | 2.80E-07 | 3.84E-11   |                   |
| 169  | 1  | Subsurface | Total PAH   | mg/kg | 4.59E+00 | 5.69E-06  | 7.25E-06 | 2.83E-08   |                   |
| 169  | 1  | Subsurface | Uranium     | mg/kg | 5.03E+01 | 6.24E-05  | 3.06E-05 | 4.20E-09   |                   |
| 169  | 1  | Subsurface | Vanadium    | mg/kg | 4.49E+01 | 5.57E-05  | 1.42E-05 | 3.75E-09   |                   |
| 169  | 1  | Subsurface | Cobalt-60   | pCi/g | 7.40E-03 | 1.64E+01  |          | 1.10E-03   | 2.50E-02          |
| 169  | 1  | Subsurface | Uranium-234 | pCi/g | 6.55E+00 | 1.45E+04  |          | 9.77E-01   | 2.21E+01          |
| 169  | 1  | Subsurface | Uranium-235 | pCi/g | 4.60E-01 | 1.02E+03  |          | 6.86E-02   | 1.55E+00          |
| 169  | 1  | Subsurface | Uranium-238 | pCi/g | 8.12E+00 | 1.80E+04  |          | 1.21E+00   | 2.74E+01          |
| 19   | 1  | Subsurface | Arsenic     | mg/kg | 1.01E+01 | 1.25E-05  | 3.68E-06 | 8.43E-10   |                   |
| 19   | 1  | Subsurface | Beryllium   | mg/kg | 1.40E+00 | 1.74E-06  | 1.19E-07 | 1.17E-10   |                   |
| 19   | 1  | Subsurface | Cadmium     | mg/kg | 5.70E+00 | 7.08E-06  | 6.93E-08 | 4.75E-10   |                   |
| 19   | 1  | Subsurface | Cobalt      | mg/kg | 1.35E+01 | 1.68E-05  | 8.20E-06 | 1.13E-09   |                   |
| 19   | 1  | Subsurface | Copper      | mg/kg | 1.80E+03 | 2.23E-03  | 1.09E-03 | 1.50E-07   |                   |
| 19   | 1  | Subsurface | Nickel      | mg/kg | 4.38E+02 | 5.44E-04  | 2.13E-04 | 3.65E-08   |                   |
| 19   | 1  | Subsurface | Thallium    | mg/kg | 9.80E-01 | 1.22E-06  | 5.96E-07 | 8.17E-11   |                   |
| 19   | 1  | Subsurface | Total PAH   | mg/kg | 5.23E+00 | 6.49E-06  | 8.26E-06 | 3.22E-08   |                   |
| 19   | 1  | Subsurface | Uranium     | mg/kg | 1.64E+02 | 2.04E-04  | 9.97E-05 | 1.37E-08   |                   |
| 19   | 1  | Subsurface | Vanadium    | mg/kg | 3.83E+01 | 4.75E-05  | 1.21E-05 | 3.19E-09   |                   |
| 19   | 1  | Subsurface | Uranium-234 | pCi/g | 2.77E+01 | 6.15E+04  |          | 4.13E+00   | 9.36E+01          |
| 19   | 1  | Subsurface | Uranium-235 | pCi/g | 1.30E+00 | 2.89E+03  |          | 1.94E-01   | 4.39E+00          |
| 19   | 1  | Subsurface | Uranium-238 | pCi/g | 3.06E+01 | 6.79E+04  |          | 4.57E+00   | 1.03E+02          |
| 138  | 1  | Subsurface | Aluminum    | mg/kg | 1.08E+04 | 1.33E-02  | 6.53E-03 | 8.97E-07   |                   |
| 138  | 1  | Subsurface | Antimony    | mg/kg | 4.55E+00 | 5.65E-06  | 2.77E-06 | 3.80E-10   |                   |
| 138  | 1  | Subsurface | Arsenic     | mg/kg | 1.08E+01 | 1.34E-05  | 3.93E-06 | 8.98E-10   |                   |
| 138  | 1  | Subsurface | Barium      | mg/kg | 1.99E+02 | 2.47E-04  | 1.21E-04 | 1.66E-08   |                   |
| 138  | 1  | Subsurface | Beryllium   | mg/kg | 6.28E-01 | 7.80E-07  | 5.34E-08 | 5.24E-11   |                   |
| 138  | 1  | Subsurface | Cadmium     | mg/kg | 4.87E+00 | 6.05E-06  | 5.92E-08 | 4.06E-10   |                   |
| 138  | 1  | Subsurface | Chromium    | mg/kg | 5.65E+01 | 7.02E-05  | 3.44E-05 | 4.72E-09   |                   |
| 138  | 1  | Subsurface | Cobalt      | mg/kg | 9.18E+00 | 1.14E-05  | 5.58E-06 | 7.66E-10   |                   |
| 138  | 1  | Subsurface | Iron        | mg/kg | 1.99E+04 | 2.47E-02  | 1.21E-02 | 1.66E-06   |                   |
| 138  | 1  | Subsurface | Manganese   | mg/kg | 6.55E+02 | 8.13E-04  | 3.19E-04 | 5.47E-08   |                   |
| 138  | 1  | Subsurface | Mercury     | mg/kg | 1.46E+01 | 1.81E-05  | 8.84E-06 | 3.62E-05   |                   |
| 138  | 1  | Subsurface | Nickel      | mg/kg | 7.71E+01 | 9.57E-05  | 3.75E-05 | 6.43E-09   |                   |
| 138  | 1  | Subsurface | PCB, Total  | mg/kg | 5.00E-01 | 6.21E-07  | 8.51E-07 | 7.03E-08   |                   |
| 138  | 1  | Subsurface | Silver      | mg/kg | 1.01E+01 | 1.25E-05  | 4.91E-06 | 8.42E-10   |                   |
| 138  | 1  | Subsurface | Thallium    | mg/kg | 6.20E-01 | 7.70E-07  | 3.77E-07 | 5.17E-11   |                   |
| 138  | 1  | Subsurface | Total PAH   | mg/kg | 9.74E-02 | 1.21E-07  | 1.54E-07 | 6.01E-10   |                   |
| 138  | 1  | Subsurface | Vanadium    | mg/kg | 2.99E+01 | 3.71E-05  | 9.44E-06 | 2.49E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|------------|-------|----------|-----------|----------|------------|-------------------|
| 138  | 2  | Subsurface | Arsenic    | mg/kg | 1.03E+01 | 1.28E-05  | 3.77E-06 | 8.62E-10   |                   |
| 138  | 2  | Subsurface | Cadmium    | mg/kg | 5.00E-01 | 6.21E-07  | 6.08E-09 | 4.17E-11   |                   |
| 138  | 2  | Subsurface | Chromium   | mg/kg | 6.28E+01 | 7.79E-05  | 3.82E-05 | 5.24E-09   |                   |
| 138  | 2  | Subsurface | Mercury    | mg/kg | 8.30E+00 | 1.03E-05  | 5.04E-06 | 2.06E-05   |                   |
| 138  | 2  | Subsurface | Nickel     | mg/kg | 9.60E+01 | 1.19E-04  | 4.67E-05 | 8.01E-09   |                   |
| 138  | 2  | Subsurface | PCB, Total | mg/kg | 9.20E-02 | 1.14E-07  | 1.57E-07 | 1.29E-08   |                   |
| 138  | 2  | Subsurface | Silver     | mg/kg | 1.53E+01 | 1.90E-05  | 7.44E-06 | 1.28E-09   |                   |
| 138  | 2  | Subsurface | Thallium   | mg/kg | 2.90E-01 | 3.60E-07  | 1.76E-07 | 2.42E-11   |                   |
| 138  | 2  | Subsurface | Total PAH  | mg/kg | 3.84E-02 | 4.77E-08  | 6.07E-08 | 2.37E-10   |                   |
| 180  | 1  | Subsurface | Antimony   | mg/kg | 5.97E-01 | 7.41E-07  | 3.63E-07 | 4.98E-11   |                   |
| 180  | 1  | Subsurface | Arsenic    | mg/kg | 7.57E+01 | 9.40E-05  | 2.76E-05 | 6.32E-09   |                   |
| 180  | 1  | Subsurface | Beryllium  | mg/kg | 6.25E-01 | 7.76E-07  | 5.32E-08 | 5.21E-11   |                   |
| 180  | 1  | Subsurface | Chromium   | mg/kg | 6.34E+01 | 7.87E-05  | 3.85E-05 | 5.29E-09   |                   |
| 180  | 1  | Subsurface | Cobalt     | mg/kg | 1.37E+01 | 1.70E-05  | 8.34E-06 | 1.14E-09   |                   |
| 180  | 1  | Subsurface | Manganese  | mg/kg | 8.24E+02 | 1.02E-03  | 4.00E-04 | 6.87E-08   |                   |
| 180  | 1  | Subsurface | Mercury    | mg/kg | 8.28E+00 | 1.03E-05  | 5.03E-06 | 2.06E-05   |                   |
| 180  | 1  | Subsurface | Nickel     | mg/kg | 9.03E+01 | 1.12E-04  | 4.39E-05 | 7.54E-09   |                   |
| 180  | 1  | Subsurface | Silver     | mg/kg | 1.17E+01 | 1.45E-05  | 5.68E-06 | 9.74E-10   |                   |
| 180  | 1  | Subsurface | Thallium   | mg/kg | 4.73E-01 | 5.87E-07  | 2.87E-07 | 3.95E-11   |                   |
| 180  | 2  | Subsurface | Antimony   | mg/kg | 4.58E-01 | 5.68E-07  | 2.78E-07 | 3.82E-11   |                   |
| 180  | 2  | Subsurface | Arsenic    | mg/kg | 1.17E+01 | 1.45E-05  | 4.26E-06 | 9.74E-10   |                   |
| 180  | 2  | Subsurface | Chromium   | mg/kg | 6.02E+01 | 7.47E-05  | 3.66E-05 | 5.02E-09   |                   |
| 180  | 2  | Subsurface | Manganese  | mg/kg | 6.72E+02 | 8.35E-04  | 3.27E-04 | 5.61E-08   |                   |
| 180  | 2  | Subsurface | Mercury    | mg/kg | 8.25E+00 | 1.02E-05  | 5.01E-06 | 2.05E-05   |                   |
| 180  | 2  | Subsurface | Nickel     | mg/kg | 8.64E+01 | 1.07E-04  | 4.20E-05 | 7.20E-09   |                   |
| 180  | 2  | Subsurface | Total PAH  | mg/kg | 9.19E-02 | 1.14E-07  | 1.45E-07 | 5.67E-10   |                   |
| 180  | 3  | Subsurface | Arsenic    | mg/kg | 1.36E+01 | 1.69E-05  | 4.96E-06 | 1.13E-09   |                   |
| 180  | 3  | Subsurface | Beryllium  | mg/kg | 5.03E-01 | 6.24E-07  | 4.28E-08 | 4.20E-11   |                   |
| 180  | 3  | Subsurface | Chromium   | mg/kg | 5.44E+01 | 6.75E-05  | 3.31E-05 | 4.54E-09   |                   |
| 180  | 3  | Subsurface | Manganese  | mg/kg | 5.12E+02 | 6.35E-04  | 2.49E-04 | 4.27E-08   |                   |
| 180  | 3  | Subsurface | Nickel     | mg/kg | 7.17E+01 | 8.90E-05  | 3.48E-05 | 5.98E-09   |                   |
| 180  | 3  | Subsurface | Silver     | mg/kg | 1.14E+01 | 1.42E-05  | 5.54E-06 | 9.51E-10   |                   |
| 180  | 3  | Subsurface | Vanadium   | mg/kg | 2.87E+01 | 3.56E-05  | 9.06E-06 | 2.39E-09   |                   |
| 180  | 4  | Subsurface | Arsenic    | mg/kg | 1.11E+01 | 1.37E-05  | 4.04E-06 | 9.23E-10   |                   |
| 180  | 4  | Subsurface | Barium     | mg/kg | 1.63E+02 | 2.02E-04  | 9.88E-05 | 1.36E-08   |                   |
| 180  | 4  | Subsurface | Beryllium  | mg/kg | 1.14E+00 | 1.42E-06  | 9.70E-08 | 9.51E-11   |                   |
| 180  | 4  | Subsurface | Chromium   | mg/kg | 6.00E+01 | 7.45E-05  | 3.65E-05 | 5.01E-09   |                   |
| 180  | 4  | Subsurface | Cobalt     | mg/kg | 9.68E+00 | 1.20E-05  | 5.88E-06 | 8.08E-10   |                   |
| 180  | 4  | Subsurface | Iron       | mg/kg | 1.61E+04 | 1.99E-02  | 9.76E-03 | 1.34E-06   |                   |
| 180  | 4  | Subsurface | Manganese  | mg/kg | 8.05E+02 | 1.00E-03  | 3.92E-04 | 6.72E-08   |                   |
| 180  | 4  | Subsurface | Mercury    | mg/kg | 6.89E+00 | 8.55E-06  | 4.19E-06 | 1.71E-05   |                   |
| 180  | 4  | Subsurface | Nickel     | mg/kg | 6.99E+01 | 8.67E-05  | 3.40E-05 | 5.83E-09   |                   |
| 180  | 4  | Subsurface | Silver     | mg/kg | 1.16E+01 | 1.44E-05  | 5.64E-06 | 9.68E-10   |                   |
| 180  | 4  | Subsurface | Total PAH  | mg/kg | 1.58E-02 | 1.96E-08  | 2.50E-08 | 9.75E-11   |                   |
| 180  | 4  | Subsurface | Vanadium   | mg/kg | 3.50E+01 | 4.34E-05  | 1.11E-05 | 2.92E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|------------|-------|----------|-----------|----------|------------|-------------------|
| 181  | 1  | Subsurface | Chromium   | mg/kg | 3.44E+01 | 4.27E-05  | 2.09E-05 | 2.87E-09   |                   |
| 181  | 1  | Subsurface | PCB, Total | mg/kg | 1.03E-01 | 1.28E-07  | 1.75E-07 | 1.45E-08   |                   |
| 181  | 1  | Subsurface | Thallium   | mg/kg | 3.50E+00 | 4.34E-06  | 2.13E-06 | 2.92E-10   |                   |
| 181  | 1  | Subsurface | Total PAH  | mg/kg | 3.43E-02 | 4.26E-08  | 5.42E-08 | 2.12E-10   |                   |
| 195  | 1  | Subsurface | Arsenic    | mg/kg | 1.17E+01 | 1.46E-05  | 4.28E-06 | 9.78E-10   |                   |
| 195  | 1  | Subsurface | Chromium   | mg/kg | 5.85E+01 | 7.27E-05  | 3.56E-05 | 4.88E-09   |                   |
| 195  | 1  | Subsurface | Nickel     | mg/kg | 8.00E+01 | 9.93E-05  | 3.89E-05 | 6.67E-09   |                   |
| 195  | 1  | Subsurface | Silver     | mg/kg | 9.37E+00 | 1.16E-05  | 4.56E-06 | 7.82E-10   |                   |
| 195  | 1  | Subsurface | Thallium   | mg/kg | 2.99E-01 | 3.71E-07  | 1.82E-07 | 2.49E-11   |                   |
| 195  | 1  | Subsurface | Total PAH  | mg/kg | 1.53E-02 | 1.90E-08  | 2.42E-08 | 9.44E-11   |                   |
| 195  | 1  | Subsurface | Cesium-137 | pCi/g | 3.70E-01 | 8.21E+02  |          | 5.52E-02   | 1.25E+00          |
| 195  | 2  | Subsurface | Chromium   | mg/kg | 5.63E+01 | 6.99E-05  | 3.42E-05 | 4.70E-09   |                   |
| 195  | 2  | Subsurface | Silver     | mg/kg | 9.48E+00 | 1.18E-05  | 4.61E-06 | 7.91E-10   |                   |
| 195  | 2  | Subsurface | Total PAH  | mg/kg | 1.93E-02 | 2.40E-08  | 3.05E-08 | 1.19E-10   |                   |
| 195  | 3  | Subsurface | Arsenic    | mg/kg | 1.09E+01 | 1.35E-05  | 3.96E-06 | 9.05E-10   |                   |
| 195  | 3  | Subsurface | Chromium   | mg/kg | 5.29E+01 | 6.56E-05  | 3.21E-05 | 4.41E-09   |                   |
| 195  | 3  | Subsurface | Manganese  | mg/kg | 4.88E+02 | 6.05E-04  | 2.37E-04 | 4.07E-08   |                   |
| 195  | 3  | Subsurface | Nickel     | mg/kg | 9.63E+01 | 1.20E-04  | 4.68E-05 | 8.04E-09   |                   |
| 195  | 3  | Subsurface | Total PAH  | mg/kg | 3.31E-02 | 4.11E-08  | 5.23E-08 | 2.04E-10   |                   |
| 195  | 4  | Subsurface | Arsenic    | mg/kg | 1.01E+01 | 1.25E-05  | 3.68E-06 | 8.41E-10   |                   |
| 195  | 4  | Subsurface | Chromium   | mg/kg | 5.08E+01 | 6.30E-05  | 3.08E-05 | 4.23E-09   |                   |
| 195  | 4  | Subsurface | Nickel     | mg/kg | 8.37E+01 | 1.04E-04  | 4.07E-05 | 6.98E-09   |                   |
| 195  | 4  | Subsurface | Silver     | mg/kg | 8.80E+00 | 1.09E-05  | 4.28E-06 | 7.34E-10   |                   |
| 195  | 4  | Subsurface | Thallium   | mg/kg | 3.39E-01 | 4.21E-07  | 2.06E-07 | 2.83E-11   |                   |
| 195  | 5  | Subsurface | Arsenic    | mg/kg | 8.80E+00 | 1.09E-05  | 3.21E-06 | 7.34E-10   |                   |
| 195  | 5  | Subsurface | Chromium   | mg/kg | 5.74E+01 | 7.13E-05  | 3.49E-05 | 4.79E-09   |                   |
| 195  | 5  | Subsurface | Nickel     | mg/kg | 8.11E+01 | 1.01E-04  | 3.94E-05 | 6.77E-09   |                   |
| 195  | 5  | Subsurface | Silver     | mg/kg | 8.41E+00 | 1.04E-05  | 4.09E-06 | 7.02E-10   |                   |
| 195  | 5  | Subsurface | Thallium   | mg/kg | 5.50E-01 | 6.83E-07  | 3.34E-07 | 4.59E-11   |                   |
| 195  | 5  | Subsurface | Total PAH  | mg/kg | 2.40E-02 | 2.98E-08  | 3.79E-08 | 1.48E-10   |                   |
| 195  | 5  | Subsurface | Cesium-137 | pCi/g | 3.41E-01 | 7.57E+02  |          | 5.09E-02   | 1.15E+00          |
| 195  | 6  | Subsurface | Arsenic    | mg/kg | 1.05E+01 | 1.30E-05  | 3.82E-06 | 8.75E-10   |                   |
| 195  | 6  | Subsurface | Chromium   | mg/kg | 5.52E+01 | 6.85E-05  | 3.35E-05 | 4.60E-09   |                   |
| 195  | 6  | Subsurface | Nickel     | mg/kg | 9.81E+01 | 1.22E-04  | 4.77E-05 | 8.18E-09   |                   |
| 195  | 6  | Subsurface | Silver     | mg/kg | 1.00E+01 | 1.24E-05  | 4.87E-06 | 8.35E-10   |                   |
| 195  | 6  | Subsurface | Total PAH  | mg/kg | 1.91E-01 | 2.37E-07  | 3.02E-07 | 1.18E-09   |                   |
| 195  | 6  | Subsurface | Cesium-137 | pCi/g | 2.26E-01 | 5.02E+02  |          | 3.37E-02   | 7.64E-01          |
| 195  | 7  | Subsurface | Arsenic    | mg/kg | 8.49E+00 | 1.05E-05  | 3.10E-06 | 7.08E-10   |                   |
| 195  | 7  | Subsurface | Chromium   | mg/kg | 4.74E+01 | 5.88E-05  | 2.88E-05 | 3.95E-09   |                   |
| 195  | 7  | Subsurface | Cobalt     | mg/kg | 1.13E+01 | 1.41E-05  | 6.89E-06 | 9.45E-10   |                   |
| 195  | 7  | Subsurface | Silver     | mg/kg | 8.06E+00 | 1.00E-05  | 3.92E-06 | 6.72E-10   |                   |
| 195  | 8  | Subsurface | Arsenic    | mg/kg | 1.12E+01 | 1.38E-05  | 4.07E-06 | 9.30E-10   |                   |
| 195  | 8  | Subsurface | Beryllium  | mg/kg | 6.78E-01 | 8.42E-07  | 5.77E-08 | 5.66E-11   |                   |
| 195  | 8  | Subsurface | Chromium   | mg/kg | 5.23E+01 | 6.49E-05  | 3.18E-05 | 4.36E-09   |                   |
| 195  | 8  | Subsurface | Cobalt     | mg/kg | 1.41E+01 | 1.75E-05  | 8.55E-06 | 1.17E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|------------|-------|----------|-----------|----------|------------|-------------------|
| 195  | 8  | Subsurface | Manganese  | mg/kg | 6.90E+02 | 8.57E-04  | 3.36E-04 | 5.76E-08   |                   |
| 195  | 8  | Subsurface | Nickel     | mg/kg | 8.93E+01 | 1.11E-04  | 4.34E-05 | 7.45E-09   |                   |
| 195  | 8  | Subsurface | Silver     | mg/kg | 8.51E+00 | 1.06E-05  | 4.14E-06 | 7.10E-10   |                   |
| 195  | 8  | Subsurface | Total PAH  | mg/kg | 1.42E-01 | 1.76E-07  | 2.24E-07 | 8.76E-10   |                   |
| 195  | 8  | Subsurface | Vanadium   | mg/kg | 3.70E+01 | 4.59E-05  | 1.17E-05 | 3.08E-09   |                   |
| 195  | 8  | Subsurface | Cesium-137 | pCi/g | 2.44E-01 | 5.42E+02  |          | 3.64E-02   | 8.24E-01          |
| 195  | 9  | Subsurface | Arsenic    | mg/kg | 1.03E+01 | 1.28E-05  | 3.77E-06 | 8.62E-10   |                   |
| 195  | 9  | Subsurface | Chromium   | mg/kg | 6.08E+01 | 7.55E-05  | 3.69E-05 | 5.07E-09   |                   |
| 195  | 9  | Subsurface | Nickel     | mg/kg | 9.12E+01 | 1.13E-04  | 4.43E-05 | 7.61E-09   |                   |
| 195  | 9  | Subsurface | Silver     | mg/kg | 9.33E+00 | 1.16E-05  | 4.54E-06 | 7.78E-10   |                   |
| 195  | 10 | Subsurface | Arsenic    | mg/kg | 9.83E+00 | 1.22E-05  | 3.58E-06 | 8.20E-10   |                   |
| 195  | 10 | Subsurface | Chromium   | mg/kg | 4.29E+01 | 5.32E-05  | 2.60E-05 | 3.57E-09   |                   |
| 195  | 10 | Subsurface | Manganese  | mg/kg | 3.79E+02 | 4.70E-04  | 1.84E-04 | 3.16E-08   |                   |
| 195  | 10 | Subsurface | Nickel     | mg/kg | 7.98E+01 | 9.91E-05  | 3.88E-05 | 6.66E-09   |                   |
| 195  | 10 | Subsurface | Silver     | mg/kg | 1.31E+01 | 1.63E-05  | 6.37E-06 | 1.09E-09   |                   |
| 195  | 11 | Subsurface | Aluminum   | mg/kg | 1.93E+04 | 2.40E-02  | 1.17E-02 | 1.61E-06   |                   |
| 195  | 11 | Subsurface | Arsenic    | mg/kg | 1.30E+01 | 1.61E-05  | 4.72E-06 | 1.08E-09   |                   |
| 195  | 11 | Subsurface | Barium     | mg/kg | 3.18E+02 | 3.94E-04  | 1.93E-04 | 2.65E-08   |                   |
| 195  | 11 | Subsurface | Chromium   | mg/kg | 5.67E+01 | 7.04E-05  | 3.45E-05 | 4.73E-09   |                   |
| 195  | 11 | Subsurface | Cobalt     | mg/kg | 1.87E+01 | 2.32E-05  | 1.13E-05 | 1.56E-09   |                   |
| 195  | 11 | Subsurface | Iron       | mg/kg | 2.10E+04 | 2.61E-02  | 1.28E-02 | 1.75E-06   |                   |
| 195  | 11 | Subsurface | Manganese  | mg/kg | 5.25E+02 | 6.52E-04  | 2.55E-04 | 4.38E-08   |                   |
| 195  | 11 | Subsurface | Nickel     | mg/kg | 8.37E+01 | 1.04E-04  | 4.07E-05 | 6.98E-09   |                   |
| 195  | 11 | Subsurface | Silver     | mg/kg | 8.26E+00 | 1.03E-05  | 4.02E-06 | 6.89E-10   |                   |
| 195  | 11 | Subsurface | Thallium   | mg/kg | 4.46E-01 | 5.54E-07  | 2.71E-07 | 3.72E-11   |                   |
| 195  | 11 | Subsurface | Total PAH  | mg/kg | 2.83E-02 | 3.51E-08  | 4.47E-08 | 1.75E-10   |                   |
| 195  | 11 | Subsurface | Vanadium   | mg/kg | 5.55E+01 | 6.89E-05  | 1.75E-05 | 4.63E-09   |                   |
| 195  | 11 | Subsurface | Cesium-137 | pCi/g | 2.13E-01 | 4.73E+02  |          | 3.18E-02   | 7.20E-01          |
| 195  | 12 | Subsurface | Arsenic    | mg/kg | 1.08E+01 | 1.33E-05  | 3.92E-06 | 8.97E-10   |                   |
| 195  | 12 | Subsurface | Beryllium  | mg/kg | 6.22E-01 | 7.72E-07  | 5.29E-08 | 5.19E-11   |                   |
| 195  | 12 | Subsurface | Chromium   | mg/kg | 6.45E+01 | 8.00E-05  | 3.92E-05 | 5.38E-09   |                   |
| 195  | 12 | Subsurface | Manganese  | mg/kg | 4.77E+02 | 5.92E-04  | 2.32E-04 | 3.98E-08   |                   |
| 195  | 12 | Subsurface | Nickel     | mg/kg | 9.19E+01 | 1.14E-04  | 4.47E-05 | 7.67E-09   |                   |
| 195  | 12 | Subsurface | Vanadium   | mg/kg | 3.68E+01 | 4.57E-05  | 1.16E-05 | 3.07E-09   |                   |
| 195  | 13 | Subsurface | Arsenic    | mg/kg | 9.12E+00 | 1.13E-05  | 3.33E-06 | 7.61E-10   |                   |
| 195  | 13 | Subsurface | Chromium   | mg/kg | 5.23E+01 | 6.49E-05  | 3.18E-05 | 4.36E-09   |                   |
| 195  | 13 | Subsurface | Nickel     | mg/kg | 8.34E+01 | 1.04E-04  | 4.06E-05 | 6.96E-09   |                   |
| 195  | 13 | Subsurface | Silver     | mg/kg | 8.71E+00 | 1.08E-05  | 4.23E-06 | 7.27E-10   |                   |
| 195  | 14 | Subsurface | Arsenic    | mg/kg | 1.02E+01 | 1.27E-05  | 3.73E-06 | 8.53E-10   |                   |
| 195  | 14 | Subsurface | Chromium   | mg/kg | 5.94E+01 | 7.38E-05  | 3.61E-05 | 4.96E-09   |                   |
| 195  | 14 | Subsurface | Mercury    | mg/kg | 6.49E+00 | 8.06E-06  | 3.94E-06 | 1.61E-05   |                   |
| 195  | 14 | Subsurface | Nickel     | mg/kg | 8.22E+01 | 1.02E-04  | 4.00E-05 | 6.86E-09   |                   |
| 195  | 14 | Subsurface | Silver     | mg/kg | 8.87E+00 | 1.10E-05  | 4.31E-06 | 7.40E-10   |                   |
| 195  | 15 | Subsurface | Arsenic    | mg/kg | 9.15E+00 | 1.14E-05  | 3.34E-06 | 7.63E-10   |                   |
| 195  | 15 | Subsurface | Chromium   | mg/kg | 5.34E+01 | 6.63E-05  | 3.25E-05 | 4.46E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 195  | 15 | Subsurface | Cesium-137    | pCi/g | 2.61E-01 | 5.79E+02  |          | 3.89E-02   | 8.82E-01          |
| 195  | 16 | Subsurface | Chromium      | mg/kg | 5.22E+01 | 6.48E-05  | 3.17E-05 | 4.36E-09   |                   |
| 195  | 16 | Subsurface | Manganese     | mg/kg | 3.87E+02 | 4.80E-04  | 1.88E-04 | 3.23E-08   |                   |
| 195  | 16 | Subsurface | Mercury       | mg/kg | 8.43E+00 | 1.05E-05  | 5.12E-06 | 2.10E-05   |                   |
| 195  | 16 | Subsurface | Nickel        | mg/kg | 8.59E+01 | 1.07E-04  | 4.17E-05 | 7.16E-09   |                   |
| 195  | 16 | Subsurface | Cesium-137    | pCi/g | 2.94E-01 | 6.53E+02  |          | 4.39E-02   | 9.93E-01          |
| 195  | 17 | Subsurface | Arsenic       | mg/kg | 9.36E+00 | 1.16E-05  | 3.41E-06 | 7.81E-10   |                   |
| 195  | 17 | Subsurface | Chromium      | mg/kg | 6.77E+01 | 8.41E-05  | 4.12E-05 | 5.65E-09   |                   |
| 195  | 17 | Subsurface | Manganese     | mg/kg | 5.02E+02 | 6.23E-04  | 2.44E-04 | 4.19E-08   |                   |
| 195  | 17 | Subsurface | Mercury       | mg/kg | 7.24E+00 | 8.99E-06  | 4.40E-06 | 1.80E-05   |                   |
| 195  | 17 | Subsurface | Nickel        | mg/kg | 7.09E+01 | 8.80E-05  | 3.44E-05 | 5.91E-09   |                   |
| 195  | 17 | Subsurface | PCB, Total    | mg/kg | 7.40E-01 | 9.19E-07  | 1.26E-06 | 1.04E-07   |                   |
| 195  | 17 | Subsurface | Silver        | mg/kg | 1.20E+01 | 1.49E-05  | 5.82E-06 | 9.99E-10   |                   |
| 195  | 17 | Subsurface | Thallium      | mg/kg | 4.82E-01 | 5.98E-07  | 2.93E-07 | 4.02E-11   |                   |
| 195  | 17 | Subsurface | Total PAH     | mg/kg | 2.05E-01 | 2.54E-07  | 3.24E-07 | 1.26E-09   |                   |
| 195  | 17 | Subsurface | Uranium-235   | pCi/g | 9.72E-02 | 2.16E+02  |          | 1.45E-02   | 3.28E-01          |
| 195  | 17 | Subsurface | Uranium-238   | pCi/g | 1.75E+00 | 3.89E+03  |          | 2.62E-01   | 5.92E+00          |
| 486  | 1  | Subsurface | Cesium-137    | pCi/g | 1.71E+00 | 3.80E+03  |          | 2.55E-01   | 5.78E+00          |
| 487  | 1  | Subsurface | Cesium-137    | pCi/g | 1.38E+00 | 3.06E+03  |          | 2.06E-01   | 4.66E+00          |
| 492  | 1  | Subsurface | Arsenic       | mg/kg | 1.47E+01 | 1.82E-05  | 5.36E-06 | 1.23E-09   |                   |
| 492  | 1  | Subsurface | Beryllium     | mg/kg | 1.04E+01 | 1.29E-05  | 8.85E-07 | 8.68E-10   |                   |
| 492  | 1  | Subsurface | Cadmium       | mg/kg | 3.14E+00 | 3.90E-06  | 3.82E-08 | 2.62E-10   |                   |
| 492  | 1  | Subsurface | Chromium      | mg/kg | 1.04E+03 | 1.29E-03  | 6.32E-04 | 8.68E-08   |                   |
| 492  | 1  | Subsurface | PCB, Total    | mg/kg | 4.41E+01 | 5.47E-05  | 7.50E-05 | 6.20E-06   |                   |
| 492  | 1  | Subsurface | Uranium       | mg/kg | 1.77E+03 | 2.20E-03  | 1.08E-03 | 1.48E-07   |                   |
| 492  | 1  | Subsurface | Vanadium      | mg/kg | 4.32E+01 | 5.36E-05  | 1.37E-05 | 3.60E-09   |                   |
| 492  | 1  | Subsurface | Cesium-137    | pCi/g | 3.46E-01 | 7.68E+02  |          | 5.16E-02   | 1.17E+00          |
| 492  | 1  | Subsurface | Cobalt-60     | pCi/g | 9.63E-03 | 2.14E+01  |          | 1.44E-03   | 3.25E-02          |
| 492  | 1  | Subsurface | Neptunium-237 | pCi/g | 2.09E-01 | 4.64E+02  |          | 3.12E-02   | 7.06E-01          |
| 492  | 1  | Subsurface | Uranium-234   | pCi/g | 5.39E+01 | 1.20E+05  |          | 8.04E+00   | 1.82E+02          |
| 492  | 1  | Subsurface | Uranium-235   | pCi/g | 5.72E+00 | 1.27E+04  |          | 8.53E-01   | 1.93E+01          |
| 492  | 1  | Subsurface | Uranium-238   | pCi/g | 3.83E+02 | 8.50E+05  |          | 5.71E+01   | 1.29E+03          |
| 493  | 1  | Subsurface | Aluminum      | mg/kg | 1.44E+04 | 1.79E-02  | 8.75E-03 | 1.20E-06   |                   |
| 493  | 1  | Subsurface | Arsenic       | mg/kg | 1.18E+01 | 1.46E-05  | 4.30E-06 | 9.84E-10   |                   |
| 493  | 1  | Subsurface | Barium        | mg/kg | 4.04E+02 | 5.01E-04  | 2.46E-04 | 3.37E-08   |                   |
| 493  | 1  | Subsurface | Beryllium     | mg/kg | 9.91E-01 | 1.23E-06  | 8.43E-08 | 8.27E-11   |                   |
| 493  | 1  | Subsurface | Chromium      | mg/kg | 6.61E+01 | 8.20E-05  | 4.02E-05 | 5.51E-09   |                   |
| 493  | 1  | Subsurface | Cobalt        | mg/kg | 3.79E+01 | 4.70E-05  | 2.30E-05 | 3.16E-09   |                   |
| 493  | 1  | Subsurface | Manganese     | mg/kg | 3.55E+03 | 4.41E-03  | 1.73E-03 | 2.96E-07   |                   |
| 493  | 1  | Subsurface | Mercury       | mg/kg | 2.60E-01 | 3.23E-07  | 1.58E-07 | 6.47E-07   |                   |
| 493  | 1  | Subsurface | Nickel        | mg/kg | 2.13E+02 | 2.64E-04  | 1.04E-04 | 1.78E-08   |                   |
| 493  | 1  | Subsurface | PCB, Total    | mg/kg | 2.60E-01 | 3.23E-07  | 4.42E-07 | 3.66E-08   |                   |
| 493  | 1  | Subsurface | Thallium      | mg/kg | 6.90E-01 | 8.56E-07  | 4.19E-07 | 5.76E-11   |                   |
| 493  | 1  | Subsurface | Total PAH     | mg/kg | 5.00E-01 | 6.21E-07  | 7.90E-07 | 3.08E-09   |                   |
| 493  | 1  | Subsurface | Vanadium      | mg/kg | 4.05E+01 | 5.03E-05  | 1.28E-05 | 3.38E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 493  | 1  | Subsurface | Cesium-137    | pCi/g | 2.92E-01 | 6.48E+02  |          | 4.36E-02   | 9.87E-01          |
| 493  | 1  | Subsurface | Cobalt-60     | pCi/g | 1.36E-02 | 3.02E+01  |          | 2.03E-03   | 4.60E-02          |
| 493  | 1  | Subsurface | Neptunium-237 | pCi/g | 1.22E-01 | 2.71E+02  |          | 1.82E-02   | 4.12E-01          |
| 493  | 1  | Subsurface | Uranium-235   | pCi/g | 1.65E-01 | 3.66E+02  |          | 2.46E-02   | 5.58E-01          |
| 493  | 1  | Subsurface | Uranium-238   | pCi/g | 5.50E+00 | 1.22E+04  |          | 8.21E-01   | 1.86E+01          |
| 517  | 1  | Subsurface | Aluminum      | mg/kg | 1.20E+04 | 1.49E-02  | 7.29E-03 | 1.00E-06   |                   |
| 517  | 1  | Subsurface | Beryllium     | mg/kg | 7.39E-01 | 9.17E-07  | 6.29E-08 | 6.16E-11   |                   |
| 517  | 1  | Subsurface | Chromium      | mg/kg | 4.91E+01 | 6.09E-05  | 2.98E-05 | 4.10E-09   |                   |
| 517  | 1  | Subsurface | Nickel        | mg/kg | 1.72E+02 | 2.13E-04  | 8.36E-05 | 1.43E-08   |                   |
| 517  | 1  | Subsurface | PCB, Total    | mg/kg | 5.00E-01 | 6.21E-07  | 8.51E-07 | 7.03E-08   |                   |
| 517  | 1  | Subsurface | Thallium      | mg/kg | 4.20E-01 | 5.21E-07  | 2.55E-07 | 3.50E-11   |                   |
| 517  | 1  | Subsurface | Cobalt-60     | pCi/g | 6.39E-03 | 1.42E+01  |          | 9.53E-04   | 2.16E-02          |
| 517  | 1  | Subsurface | Neptunium-237 | pCi/g | 1.07E+00 | 2.38E+03  |          | 1.60E-01   | 3.62E+00          |
| 517  | 1  | Subsurface | Uranium-235   | pCi/g | 1.60E-01 | 3.55E+02  |          | 2.39E-02   | 5.41E-01          |
| 517  | 1  | Subsurface | Uranium-238   | pCi/g | 3.89E+00 | 8.64E+03  |          | 5.80E-01   | 1.31E+01          |
| 541  | 1  | Subsurface | Aluminum      | mg/kg | 1.49E+04 | 1.85E-02  | 9.06E-03 | 1.24E-06   |                   |
| 541  | 1  | Subsurface | Arsenic       | mg/kg | 9.08E+00 | 1.13E-05  | 3.31E-06 | 7.57E-10   |                   |
| 541  | 1  | Subsurface | Barium        | mg/kg | 1.36E+02 | 1.69E-04  | 8.26E-05 | 1.13E-08   |                   |
| 541  | 1  | Subsurface | Beryllium     | mg/kg | 7.40E-01 | 9.19E-07  | 6.30E-08 | 6.17E-11   |                   |
| 541  | 1  | Subsurface | Cadmium       | mg/kg | 1.60E+00 | 1.98E-06  | 1.94E-08 | 1.33E-10   |                   |
| 541  | 1  | Subsurface | Chromium      | mg/kg | 9.44E+02 | 1.17E-03  | 5.74E-04 | 7.88E-08   |                   |
| 541  | 1  | Subsurface | Iron          | mg/kg | 1.88E+04 | 2.34E-02  | 1.14E-02 | 1.57E-06   |                   |
| 541  | 1  | Subsurface | Manganese     | mg/kg | 4.97E+02 | 6.17E-04  | 2.41E-04 | 4.14E-08   |                   |
| 541  | 1  | Subsurface | Mercury       | mg/kg | 2.02E-01 | 2.51E-07  | 1.23E-07 | 5.02E-07   |                   |
| 541  | 1  | Subsurface | Naphthalene   | mg/kg | 6.53E-01 | 8.11E-07  | 1.98E-06 | 1.82E-06   |                   |
| 541  | 1  | Subsurface | Nickel        | mg/kg | 1.58E+01 | 1.97E-05  | 7.70E-06 | 1.32E-09   |                   |
| 541  | 1  | Subsurface | PCB, Total    | mg/kg | 6.18E+01 | 7.67E-05  | 1.05E-04 | 8.69E-06   |                   |
| 541  | 1  | Subsurface | Total PAH     | mg/kg | 3.15E+00 | 3.91E-06  | 4.98E-06 | 1.94E-08   |                   |
| 541  | 1  | Subsurface | Uranium       | mg/kg | 7.39E+03 | 9.18E-03  | 4.49E-03 | 6.17E-07   |                   |
| 541  | 1  | Subsurface | Vanadium      | mg/kg | 3.54E+01 | 4.39E-05  | 1.12E-05 | 2.95E-09   |                   |
| 541  | 1  | Subsurface | Americium-241 | pCi/g | 7.53E+00 | 1.67E+04  |          | 1.12E+00   | 2.55E+01          |
| 541  | 1  | Subsurface | Cesium-137    | pCi/g | 9.72E-01 | 2.16E+03  |          | 1.45E-01   | 3.28E+00          |
| 541  | 1  | Subsurface | Cobalt-60     | pCi/g | 1.01E-02 | 2.24E+01  |          | 1.51E-03   | 3.41E-02          |
| 541  | 1  | Subsurface | Neptunium-237 | pCi/g | 5.69E-02 | 1.26E+02  |          | 8.49E-03   | 1.92E-01          |
| 541  | 1  | Subsurface | Uranium-234   | pCi/g | 1.44E+02 | 3.20E+05  |          | 2.15E+01   | 4.88E+02          |
| 541  | 1  | Subsurface | Uranium-235   | pCi/g | 2.26E+01 | 5.01E+04  |          | 3.37E+00   | 7.62E+01          |
| 541  | 1  | Subsurface | Uranium-238   | pCi/g | 1.11E+03 | 2.47E+06  |          | 1.66E+02   | 3.75E+03          |
| 561  | 1  | Subsurface | Aluminum      | mg/kg | 1.76E+04 | 2.18E-02  | 1.07E-02 | 1.47E-06   |                   |
| 561  | 1  | Subsurface | Antimony      | mg/kg | 8.95E-01 | 1.11E-06  | 5.44E-07 | 7.47E-11   |                   |
| 561  | 1  | Subsurface | Arsenic       | mg/kg | 1.63E+01 | 2.03E-05  | 5.96E-06 | 1.36E-09   |                   |
| 561  | 1  | Subsurface | Barium        | mg/kg | 1.44E+02 | 1.78E-04  | 8.73E-05 | 1.20E-08   |                   |
| 561  | 1  | Subsurface | Beryllium     | mg/kg | 6.74E-01 | 8.37E-07  | 5.73E-08 | 5.62E-11   |                   |
| 561  | 1  | Subsurface | Chromium      | mg/kg | 9.00E+01 | 1.12E-04  | 5.47E-05 | 7.51E-09   |                   |
| 561  | 1  | Subsurface | Cobalt        | mg/kg | 1.10E+01 | 1.37E-05  | 6.70E-06 | 9.20E-10   |                   |
| 561  | 1  | Subsurface | Iron          | mg/kg | 2.07E+04 | 2.57E-02  | 1.26E-02 | 1.73E-06   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 561  | 1  | Subsurface | Manganese         | mg/kg | 1.81E+03 | 2.24E-03  | 8.79E-04 | 1.51E-07   |                   |
| 561  | 1  | Subsurface | Nickel            | mg/kg | 1.49E+01 | 1.85E-05  | 7.26E-06 | 1.25E-09   |                   |
| 561  | 1  | Subsurface | PCB, Total        | mg/kg | 1.01E+00 | 1.25E-06  | 1.72E-06 | 1.42E-07   |                   |
| 561  | 1  | Subsurface | Thallium          | mg/kg | 3.27E-01 | 4.06E-07  | 1.99E-07 | 2.73E-11   |                   |
| 561  | 1  | Subsurface | Total PAH         | mg/kg | 7.79E-01 | 9.67E-07  | 1.23E-06 | 4.80E-09   |                   |
| 561  | 1  | Subsurface | Uranium           | mg/kg | 2.65E+02 | 3.28E-04  | 1.61E-04 | 2.21E-08   |                   |
| 561  | 1  | Subsurface | Vanadium          | mg/kg | 3.94E+01 | 4.89E-05  | 1.24E-05 | 3.29E-09   |                   |
| 561  | 1  | Subsurface | Cesium-137        | pCi/g | 2.53E-01 | 5.62E+02  |          | 3.77E-02   | 8.55E-01          |
| 561  | 1  | Subsurface | Cobalt-60         | pCi/g | 6.98E-02 | 1.55E+02  |          | 1.04E-02   | 2.36E-01          |
| 561  | 1  | Subsurface | Neptunium-237     | pCi/g | 2.61E-02 | 5.79E+01  |          | 3.89E-03   | 8.82E-02          |
| 561  | 1  | Subsurface | Uranium-234       | pCi/g | 8.48E+00 | 1.88E+04  |          | 1.26E+00   | 2.86E+01          |
| 561  | 1  | Subsurface | Uranium-235       | pCi/g | 1.43E+00 | 3.17E+03  |          | 2.13E-01   | 4.82E+00          |
| 561  | 1  | Subsurface | Uranium-238       | pCi/g | 1.12E+02 | 2.48E+05  |          | 1.67E+01   | 3.77E+02          |
| 561  | 2  | Subsurface | Aluminum          | mg/kg | 8.86E+03 | 1.10E-02  | 5.39E-03 | 7.39E-07   |                   |
| 561  | 2  | Subsurface | Antimony          | mg/kg | 5.09E+00 | 6.32E-06  | 3.09E-06 | 4.24E-10   |                   |
| 561  | 2  | Subsurface | Arsenic           | mg/kg | 1.27E+01 | 1.57E-05  | 4.62E-06 | 1.06E-09   |                   |
| 561  | 2  | Subsurface | Beryllium         | mg/kg | 6.21E-01 | 7.71E-07  | 5.28E-08 | 5.18E-11   |                   |
| 561  | 2  | Subsurface | Cadmium           | mg/kg | 3.95E-01 | 4.90E-07  | 4.80E-09 | 3.30E-11   |                   |
| 561  | 2  | Subsurface | Chromium          | mg/kg | 3.07E+02 | 3.81E-04  | 1.86E-04 | 2.56E-08   |                   |
| 561  | 2  | Subsurface | Cobalt            | mg/kg | 1.09E+01 | 1.35E-05  | 6.62E-06 | 9.09E-10   |                   |
| 561  | 2  | Subsurface | Manganese         | mg/kg | 1.07E+03 | 1.32E-03  | 5.18E-04 | 8.88E-08   |                   |
| 561  | 2  | Subsurface | PCB, Total        | mg/kg | 1.67E+01 | 2.07E-05  | 2.84E-05 | 2.35E-06   |                   |
| 561  | 2  | Subsurface | Thallium          | mg/kg | 3.83E-01 | 4.75E-07  | 2.33E-07 | 3.19E-11   |                   |
| 561  | 2  | Subsurface | Total PAH         | mg/kg | 2.30E+00 | 2.85E-06  | 3.63E-06 | 1.42E-08   |                   |
| 561  | 2  | Subsurface | Uranium           | mg/kg | 1.41E+03 | 1.74E-03  | 8.54E-04 | 1.17E-07   |                   |
| 561  | 2  | Subsurface | Vanadium          | mg/kg | 3.32E+01 | 4.12E-05  | 1.05E-05 | 2.77E-09   |                   |
| 561  | 2  | Subsurface | Cesium-137        | pCi/g | 4.02E-01 | 8.92E+02  |          | 6.00E-02   | 1.36E+00          |
| 561  | 2  | Subsurface | Cobalt-60         | pCi/g | 3.02E-02 | 6.70E+01  |          | 4.51E-03   | 1.02E-01          |
| 561  | 2  | Subsurface | Neptunium-237     | pCi/g | 4.76E-02 | 1.06E+02  |          | 7.10E-03   | 1.61E-01          |
| 561  | 2  | Subsurface | Uranium-234       | pCi/g | 3.92E+01 | 8.70E+04  |          | 5.85E+00   | 1.32E+02          |
| 561  | 2  | Subsurface | Uranium-235       | pCi/g | 6.79E+00 | 1.51E+04  |          | 1.01E+00   | 2.30E+01          |
| 561  | 2  | Subsurface | Uranium-238       | pCi/g | 3.86E+02 | 8.57E+05  |          | 5.76E+01   | 1.30E+03          |
| 562  | 1  | Subsurface | Arsenic           | mg/kg | 1.18E+01 | 1.46E-05  | 4.30E-06 | 9.84E-10   |                   |
| 562  | 1  | Subsurface | Chromium          | mg/kg | 3.15E+02 | 3.91E-04  | 1.91E-04 | 2.63E-08   |                   |
| 562  | 1  | Subsurface | PCB, Total        | mg/kg | 2.01E+00 | 2.49E-06  | 3.42E-06 | 2.83E-07   |                   |
| 562  | 1  | Subsurface | Uranium           | mg/kg | 2.27E+02 | 2.81E-04  | 1.38E-04 | 1.89E-08   |                   |
| 562  | 1  | Subsurface | Cesium-137        | pCi/g | 4.52E-01 | 1.00E+03  |          | 6.74E-02   | 1.53E+00          |
| 562  | 1  | Subsurface | Uranium-235       | pCi/g | 5.91E-01 | 1.31E+03  |          | 8.82E-02   | 2.00E+00          |
| 562  | 1  | Subsurface | Uranium-238       | pCi/g | 4.42E+01 | 9.81E+04  |          | 6.59E+00   | 1.49E+02          |
| 562  | 2  | Subsurface | PCB, Total        | mg/kg | 1.58E+00 | 1.96E-06  | 2.69E-06 | 2.22E-07   |                   |
| 562  | 2  | Subsurface | Cesium-137        | pCi/g | 3.58E-01 | 7.95E+02  |          | 5.34E-02   | 1.21E+00          |
| 562  | 2  | Subsurface | Protactinium-234m | pCi/g | 2.76E+02 | 6.12E+05  |          | 4.11E+01   | 9.32E+02          |
| 562  | 2  | Subsurface | Uranium-234       | pCi/g | 5.34E+01 | 1.19E+05  |          | 7.97E+00   | 1.80E+02          |
| 562  | 2  | Subsurface | Uranium-235       | pCi/g | 8.96E+00 | 1.99E+04  |          | 1.34E+00   | 3.03E+01          |
| 562  | 2  | Subsurface | Uranium-238       | pCi/g | 5.81E+02 | 1.29E+06  |          | 8.67E+01   | 1.96E+03          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 562  | 3  | Subsurface | PCB, Total        | mg/kg | 2.40E-01 | 2.98E-07  | 4.08E-07 | 3.38E-08   |                   |
| 562  | 3  | Subsurface | Total PAH         | mg/kg | 2.20E-01 | 2.73E-07  | 3.48E-07 | 1.36E-09   |                   |
| 562  | 3  | Subsurface | Uranium           | mg/kg | 5.89E+01 | 7.31E-05  | 3.58E-05 | 4.91E-09   |                   |
| 562  | 3  | Subsurface | Uranium-235       | pCi/g | 1.63E-01 | 3.62E+02  |          | 2.43E-02   | 5.51E-01          |
| 562  | 3  | Subsurface | Uranium-238       | pCi/g | 1.09E+01 | 2.42E+04  |          | 1.63E+00   | 3.68E+01          |
| 562  | 4  | Subsurface | Chromium          | mg/kg | 4.67E+01 | 5.79E-05  | 2.84E-05 | 3.89E-09   |                   |
| 562  | 4  | Subsurface | Uranium           | mg/kg | 2.10E+01 | 2.61E-05  | 1.28E-05 | 1.75E-09   |                   |
| 562  | 4  | Subsurface | Cesium-137        | pCi/g | 4.91E-01 | 1.09E+03  |          | 7.33E-02   | 1.66E+00          |
| 562  | 4  | Subsurface | Uranium-238       | pCi/g | 2.42E+00 | 5.37E+03  |          | 3.61E-01   | 8.18E+00          |
| 562  | 5  | Subsurface | Chromium          | mg/kg | 1.53E+02 | 1.90E-04  | 9.30E-05 | 1.28E-08   |                   |
| 562  | 5  | Subsurface | PCB, Total        | mg/kg | 9.50E-01 | 1.18E-06  | 1.62E-06 | 1.34E-07   |                   |
| 562  | 5  | Subsurface | Total PAH         | mg/kg | 7.05E-02 | 8.75E-08  | 1.11E-07 | 4.35E-10   |                   |
| 562  | 5  | Subsurface | Uranium           | mg/kg | 2.08E+02 | 2.58E-04  | 1.26E-04 | 1.74E-08   |                   |
| 562  | 5  | Subsurface | Cesium-137        | pCi/g | 3.80E-01 | 8.44E+02  |          | 5.67E-02   | 1.28E+00          |
| 562  | 5  | Subsurface | Uranium-234       | pCi/g | 8.57E+00 | 1.90E+04  |          | 1.28E+00   | 2.90E+01          |
| 562  | 5  | Subsurface | Uranium-235       | pCi/g | 9.50E-01 | 2.11E+03  |          | 1.42E-01   | 3.21E+00          |
| 562  | 5  | Subsurface | Uranium-238       | pCi/g | 6.24E+01 | 1.39E+05  |          | 9.31E+00   | 2.11E+02          |
| 562  | 6  | Subsurface | Protactinium-234m | pCi/g | 3.66E+02 | 8.13E+05  |          | 5.46E+01   | 1.24E+03          |
| 562  | 6  | Subsurface | Uranium-234       | pCi/g | 4.01E+01 | 8.90E+04  |          | 5.98E+00   | 1.36E+02          |
| 562  | 6  | Subsurface | Uranium-235       | pCi/g | 6.81E+00 | 1.51E+04  |          | 1.02E+00   | 2.30E+01          |
| 562  | 6  | Subsurface | Uranium-238       | pCi/g | 3.62E+02 | 8.03E+05  |          | 5.40E+01   | 1.22E+03          |
| 563  | 1  | Subsurface | Cadmium           | mg/kg | 8.96E-01 | 1.11E-06  | 1.09E-08 | 7.47E-11   |                   |
| 563  | 1  | Subsurface | Chromium          | mg/kg | 3.34E+02 | 4.14E-04  | 2.03E-04 | 2.79E-08   |                   |
| 563  | 1  | Subsurface | PCB, Total        | mg/kg | 3.54E+00 | 4.39E-06  | 6.02E-06 | 4.98E-07   |                   |
| 563  | 1  | Subsurface | Uranium           | mg/kg | 1.51E+01 | 1.87E-05  | 9.17E-06 | 1.26E-09   |                   |
| 563  | 1  | Subsurface | Cesium-137        | pCi/g | 2.88E-01 | 6.39E+02  |          | 4.30E-02   | 9.73E-01          |
| 563  | 1  | Subsurface | Neptunium-237     | pCi/g | 1.20E-01 | 2.66E+02  |          | 1.79E-02   | 4.05E-01          |
| 563  | 1  | Subsurface | Uranium-238       | pCi/g | 2.96E+00 | 6.57E+03  |          | 4.42E-01   | 1.00E+01          |
| 563  | 2  | Subsurface | Cesium-137        | pCi/g | 6.47E-01 | 1.44E+03  |          | 9.65E-02   | 2.19E+00          |
| 563  | 2  | Subsurface | Uranium-238       | pCi/g | 1.49E+00 | 3.31E+03  |          | 2.22E-01   | 5.03E+00          |
| 564  | 1  | Subsurface | Aluminum          | mg/kg | 1.27E+04 | 1.58E-02  | 7.72E-03 | 1.06E-06   |                   |
| 564  | 1  | Subsurface | Arsenic           | mg/kg | 4.30E+01 | 5.34E-05  | 1.57E-05 | 3.59E-09   |                   |
| 564  | 1  | Subsurface | Beryllium         | mg/kg | 2.12E+00 | 2.63E-06  | 1.80E-07 | 1.77E-10   |                   |
| 564  | 1  | Subsurface | Cadmium           | mg/kg | 1.96E+00 | 2.43E-06  | 2.38E-08 | 1.63E-10   |                   |
| 564  | 1  | Subsurface | Chromium          | mg/kg | 8.32E+01 | 1.03E-04  | 5.06E-05 | 6.94E-09   |                   |
| 564  | 1  | Subsurface | Iron              | mg/kg | 3.66E+04 | 4.54E-02  | 2.22E-02 | 3.05E-06   |                   |
| 564  | 1  | Subsurface | Mercury           | mg/kg | 2.30E-01 | 2.85E-07  | 1.40E-07 | 5.72E-07   |                   |
| 564  | 1  | Subsurface | Nickel            | mg/kg | 2.24E+01 | 2.78E-05  | 1.09E-05 | 1.87E-09   |                   |
| 564  | 1  | Subsurface | PCB, Total        | mg/kg | 1.93E+00 | 2.40E-06  | 3.28E-06 | 2.71E-07   |                   |
| 564  | 1  | Subsurface | Thallium          | mg/kg | 2.36E+00 | 2.93E-06  | 1.43E-06 | 1.97E-10   |                   |
| 564  | 1  | Subsurface | Uranium           | mg/kg | 5.83E+01 | 7.24E-05  | 3.54E-05 | 4.86E-09   |                   |
| 564  | 1  | Subsurface | Vanadium          | mg/kg | 8.06E+01 | 1.00E-04  | 2.55E-05 | 6.72E-09   |                   |
| 564  | 1  | Subsurface | Cesium-137        | pCi/g | 6.20E-01 | 1.38E+03  |          | 9.25E-02   | 2.09E+00          |
| 564  | 1  | Subsurface | Thorium-230       | pCi/g | 5.01E+00 | 1.11E+04  |          | 7.47E-01   | 1.69E+01          |
| 564  | 1  | Subsurface | Uranium-234       | pCi/g | 6.93E+00 | 1.54E+04  |          | 1.03E+00   | 2.34E+01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 564  | 1  | Subsurface | Uranium-235   | pCi/g | 3.87E-01 | 8.59E+02  |          | 5.77E-02   | 1.31E+00          |
| 564  | 1  | Subsurface | Uranium-238   | pCi/g | 8.54E+00 | 1.90E+04  |          | 1.27E+00   | 2.89E+01          |
| 567  | 1  | Subsurface | Aluminum      | mg/kg | 1.29E+04 | 1.60E-02  | 7.84E-03 | 1.08E-06   |                   |
| 567  | 1  | Subsurface | Manganese     | mg/kg | 1.32E+03 | 1.64E-03  | 6.42E-04 | 1.10E-07   |                   |
| 567  | 3  | Subsurface | Chromium      | mg/kg | 5.21E+01 | 6.47E-05  | 3.17E-05 | 4.35E-09   |                   |
| 567  | 3  | Subsurface | Uranium-238   | pCi/g | 1.72E+00 | 3.82E+03  |          | 2.57E-01   | 5.81E+00          |
| 567  | 4  | Subsurface | Aluminum      | mg/kg | 1.25E+04 | 1.55E-02  | 7.61E-03 | 1.04E-06   |                   |
| 567  | 4  | Subsurface | Arsenic       | mg/kg | 1.09E+01 | 1.35E-05  | 3.97E-06 | 9.08E-10   |                   |
| 567  | 4  | Subsurface | Uranium-238   | pCi/g | 1.08E+00 | 2.40E+03  |          | 1.61E-01   | 3.66E+00          |
| 14   | 1  | Subsurface | Antimony      | mg/kg | 6.30E-01 | 7.82E-07  | 3.83E-07 | 5.26E-11   |                   |
| 14   | 1  | Subsurface | Arsenic       | mg/kg | 1.13E+01 | 1.40E-05  | 4.10E-06 | 9.38E-10   |                   |
| 14   | 1  | Subsurface | Beryllium     | mg/kg | 6.84E-01 | 8.49E-07  | 5.82E-08 | 5.71E-11   |                   |
| 14   | 1  | Subsurface | Chromium      | mg/kg | 6.56E+01 | 8.15E-05  | 3.99E-05 | 5.47E-09   |                   |
| 14   | 1  | Subsurface | Iron          | mg/kg | 4.24E+04 | 5.26E-02  | 2.58E-02 | 3.54E-06   |                   |
| 14   | 1  | Subsurface | Manganese     | mg/kg | 8.41E+02 | 1.04E-03  | 4.09E-04 | 7.01E-08   |                   |
| 14   | 1  | Subsurface | Nickel        | mg/kg | 7.40E+02 | 9.18E-04  | 3.60E-04 | 6.17E-08   |                   |
| 14   | 1  | Subsurface | PCB, Total    | mg/kg | 5.00E-01 | 6.21E-07  | 8.51E-07 | 7.03E-08   |                   |
| 14   | 1  | Subsurface | Silver        | mg/kg | 1.67E+01 | 2.07E-05  | 8.11E-06 | 1.39E-09   |                   |
| 14   | 1  | Subsurface | Uranium       | mg/kg | 2.56E+02 | 3.18E-04  | 1.56E-04 | 2.14E-08   |                   |
| 14   | 1  | Subsurface | Vanadium      | mg/kg | 2.99E+01 | 3.72E-05  | 9.46E-06 | 2.50E-09   |                   |
| 14   | 1  | Subsurface | Americium-241 | pCi/g | 1.06E+00 | 2.36E+03  |          | 1.58E-01   | 3.59E+00          |
| 14   | 1  | Subsurface | Cobalt-60     | pCi/g | 2.42E-02 | 5.37E+01  |          | 3.61E-03   | 8.18E-02          |
| 14   | 1  | Subsurface | Neptunium-237 | pCi/g | 2.64E-01 | 5.86E+02  |          | 3.94E-02   | 8.92E-01          |
| 14   | 1  | Subsurface | Technetium-99 | pCi/g | 4.06E+02 | 9.01E+05  |          | 6.06E+01   | 1.37E+03          |
| 14   | 1  | Subsurface | Uranium-235   | pCi/g | 1.99E-01 | 4.42E+02  |          | 2.97E-02   | 6.72E-01          |
| 14   | 1  | Subsurface | Uranium-238   | pCi/g | 6.24E+00 | 1.38E+04  |          | 9.30E-01   | 2.11E+01          |
| 14   | 2  | Subsurface | Aluminum      | mg/kg | 1.00E+04 | 1.24E-02  | 6.09E-03 | 8.36E-07   |                   |
| 14   | 2  | Subsurface | Antimony      | mg/kg | 3.51E+00 | 4.35E-06  | 2.13E-06 | 2.92E-10   |                   |
| 14   | 2  | Subsurface | Arsenic       | mg/kg | 1.47E+01 | 1.83E-05  | 5.37E-06 | 1.23E-09   |                   |
| 14   | 2  | Subsurface | Beryllium     | mg/kg | 6.75E-01 | 8.38E-07  | 5.74E-08 | 5.63E-11   |                   |
| 14   | 2  | Subsurface | Cadmium       | mg/kg | 1.75E+00 | 2.17E-06  | 2.13E-08 | 1.46E-10   |                   |
| 14   | 2  | Subsurface | Chromium      | mg/kg | 7.24E+01 | 8.98E-05  | 4.40E-05 | 6.04E-09   |                   |
| 14   | 2  | Subsurface | Copper        | mg/kg | 1.92E+02 | 2.38E-04  | 1.17E-04 | 1.60E-08   |                   |
| 14   | 2  | Subsurface | Iron          | mg/kg | 4.38E+04 | 5.43E-02  | 2.66E-02 | 3.65E-06   |                   |
| 14   | 2  | Subsurface | Manganese     | mg/kg | 1.51E+03 | 1.87E-03  | 7.34E-04 | 1.26E-07   |                   |
| 14   | 2  | Subsurface | Mercury       | mg/kg | 8.88E+00 | 1.10E-05  | 5.40E-06 | 2.21E-05   |                   |
| 14   | 2  | Subsurface | Nickel        | mg/kg | 8.41E+02 | 1.04E-03  | 4.09E-04 | 7.01E-08   |                   |
| 14   | 2  | Subsurface | PCB, Total    | mg/kg | 5.00E+00 | 6.21E-06  | 8.51E-06 | 7.03E-07   |                   |
| 14   | 2  | Subsurface | Selenium      | mg/kg | 2.74E+01 | 3.40E-05  | 1.67E-05 | 2.29E-09   |                   |
| 14   | 2  | Subsurface | Silver        | mg/kg | 9.58E+00 | 1.19E-05  | 4.66E-06 | 7.99E-10   |                   |
| 14   | 2  | Subsurface | Total PAH     | mg/kg | 2.31E-01 | 2.87E-07  | 3.65E-07 | 1.42E-09   |                   |
| 14   | 2  | Subsurface | Uranium       | mg/kg | 3.64E+02 | 4.52E-04  | 2.21E-04 | 3.04E-08   |                   |
| 14   | 2  | Subsurface | Neptunium-237 | pCi/g | 1.70E+00 | 3.77E+03  |          | 2.53E-01   | 5.74E+00          |
| 14   | 2  | Subsurface | Thorium-230   | pCi/g | 7.70E+00 | 1.71E+04  |          | 1.15E+00   | 2.60E+01          |
| 14   | 2  | Subsurface | Uranium-234   | pCi/g | 4.81E+01 | 1.07E+05  |          | 7.17E+00   | 1.62E+02          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 2  | Subsurface | Uranium-235   | pCi/g | 3.41E+00 | 7.57E+03  |          | 5.09E-01   | 1.15E+01          |
| 14   | 2  | Subsurface | Uranium-238   | pCi/g | 8.96E+01 | 1.99E+05  |          | 1.34E+01   | 3.03E+02          |
| 14   | 3  | Subsurface | Arsenic       | mg/kg | 1.91E+01 | 2.36E-05  | 6.95E-06 | 1.59E-09   |                   |
| 14   | 3  | Subsurface | Beryllium     | mg/kg | 2.07E+00 | 2.57E-06  | 1.76E-07 | 1.73E-10   |                   |
| 14   | 3  | Subsurface | Chromium      | mg/kg | 7.01E+01 | 8.70E-05  | 4.26E-05 | 5.85E-09   |                   |
| 14   | 3  | Subsurface | Cobalt        | mg/kg | 1.63E+01 | 2.02E-05  | 9.88E-06 | 1.36E-09   |                   |
| 14   | 3  | Subsurface | Copper        | mg/kg | 1.30E+02 | 1.61E-04  | 7.88E-05 | 1.08E-08   |                   |
| 14   | 3  | Subsurface | Iron          | mg/kg | 4.64E+04 | 5.76E-02  | 2.82E-02 | 3.87E-06   |                   |
| 14   | 3  | Subsurface | Manganese     | mg/kg | 1.24E+03 | 1.53E-03  | 6.01E-04 | 1.03E-07   |                   |
| 14   | 3  | Subsurface | Mercury       | mg/kg | 7.48E+00 | 9.28E-06  | 4.55E-06 | 1.86E-05   |                   |
| 14   | 3  | Subsurface | Molybdenum    | mg/kg | 2.23E+01 | 2.77E-05  | 1.36E-05 | 1.86E-09   |                   |
| 14   | 3  | Subsurface | Nickel        | mg/kg | 6.64E+02 | 8.24E-04  | 3.23E-04 | 5.53E-08   |                   |
| 14   | 3  | Subsurface | PCB, Total    | mg/kg | 8.75E+00 | 1.09E-05  | 1.49E-05 | 1.23E-06   |                   |
| 14   | 3  | Subsurface | Silver        | mg/kg | 1.34E+01 | 1.66E-05  | 6.52E-06 | 1.12E-09   |                   |
| 14   | 3  | Subsurface | Uranium       | mg/kg | 2.19E+02 | 2.71E-04  | 1.33E-04 | 1.82E-08   |                   |
| 14   | 3  | Subsurface | Vanadium      | mg/kg | 6.19E+01 | 7.69E-05  | 1.96E-05 | 5.17E-09   |                   |
| 14   | 3  | Subsurface | Neptunium-237 | pCi/g | 1.61E-01 | 3.57E+02  |          | 2.40E-02   | 5.44E-01          |
| 14   | 3  | Subsurface | Uranium-234   | pCi/g | 4.43E+00 | 9.82E+03  |          | 6.60E-01   | 1.50E+01          |
| 14   | 3  | Subsurface | Uranium-235   | pCi/g | 2.46E-01 | 5.46E+02  |          | 3.67E-02   | 8.31E-01          |
| 14   | 3  | Subsurface | Uranium-238   | pCi/g | 1.08E+01 | 2.40E+04  |          | 1.61E+00   | 3.65E+01          |
| 14   | 4  | Subsurface | Aluminum      | mg/kg | 1.18E+04 | 1.46E-02  | 7.16E-03 | 9.83E-07   |                   |
| 14   | 4  | Subsurface | Antimony      | mg/kg | 3.29E+00 | 4.08E-06  | 2.00E-06 | 2.74E-10   |                   |
| 14   | 4  | Subsurface | Arsenic       | mg/kg | 1.24E+01 | 1.54E-05  | 4.54E-06 | 1.04E-09   |                   |
| 14   | 4  | Subsurface | Chromium      | mg/kg | 5.66E+01 | 7.02E-05  | 3.44E-05 | 4.72E-09   |                   |
| 14   | 4  | Subsurface | Cobalt        | mg/kg | 1.46E+01 | 1.81E-05  | 8.88E-06 | 1.22E-09   |                   |
| 14   | 4  | Subsurface | Copper        | mg/kg | 3.59E+02 | 4.45E-04  | 2.18E-04 | 2.99E-08   |                   |
| 14   | 4  | Subsurface | Iron          | mg/kg | 3.89E+04 | 4.82E-02  | 2.36E-02 | 3.24E-06   |                   |
| 14   | 4  | Subsurface | Manganese     | mg/kg | 9.96E+02 | 1.24E-03  | 4.84E-04 | 8.31E-08   |                   |
| 14   | 4  | Subsurface | Mercury       | mg/kg | 8.00E+00 | 9.93E-06  | 4.86E-06 | 1.99E-05   |                   |
| 14   | 4  | Subsurface | Nickel        | mg/kg | 7.31E+02 | 9.07E-04  | 3.55E-04 | 6.09E-08   |                   |
| 14   | 4  | Subsurface | PCB, Total    | mg/kg | 8.28E+00 | 1.03E-05  | 1.41E-05 | 1.16E-06   |                   |
| 14   | 4  | Subsurface | Silver        | mg/kg | 1.17E+01 | 1.45E-05  | 5.69E-06 | 9.76E-10   |                   |
| 14   | 4  | Subsurface | Total PAH     | mg/kg | 1.89E-01 | 2.35E-07  | 2.99E-07 | 1.17E-09   |                   |
| 14   | 4  | Subsurface | Uranium       | mg/kg | 3.72E+02 | 4.62E-04  | 2.26E-04 | 3.10E-08   |                   |
| 14   | 4  | Subsurface | Neptunium-237 | pCi/g | 2.03E+00 | 4.51E+03  |          | 3.03E-01   | 6.86E+00          |
| 14   | 4  | Subsurface | Thorium-230   | pCi/g | 5.43E+00 | 1.21E+04  |          | 8.10E-01   | 1.83E+01          |
| 14   | 4  | Subsurface | Uranium-234   | pCi/g | 8.61E+01 | 1.91E+05  |          | 1.28E+01   | 2.91E+02          |
| 14   | 4  | Subsurface | Uranium-235   | pCi/g | 6.10E+00 | 1.35E+04  |          | 9.11E-01   | 2.06E+01          |
| 14   | 4  | Subsurface | Uranium-238   | pCi/g | 1.29E+02 | 2.85E+05  |          | 1.92E+01   | 4.34E+02          |
| 14   | 5  | Subsurface | Antimony      | mg/kg | 1.60E+00 | 1.99E-06  | 9.75E-07 | 1.34E-10   |                   |
| 14   | 5  | Subsurface | Arsenic       | mg/kg | 1.27E+01 | 1.57E-05  | 4.61E-06 | 1.06E-09   |                   |
| 14   | 5  | Subsurface | Beryllium     | mg/kg | 7.93E-01 | 9.84E-07  | 6.75E-08 | 6.62E-11   |                   |
| 14   | 5  | Subsurface | Cadmium       | mg/kg | 2.59E+00 | 3.21E-06  | 3.14E-08 | 2.16E-10   |                   |
| 14   | 5  | Subsurface | Chromium      | mg/kg | 4.70E+01 | 5.83E-05  | 2.85E-05 | 3.92E-09   |                   |
| 14   | 5  | Subsurface | Cobalt        | mg/kg | 1.11E+01 | 1.38E-05  | 6.74E-06 | 9.25E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 5  | Subsurface | Copper        | mg/kg | 1.34E+02 | 1.66E-04  | 8.11E-05 | 1.11E-08   |                   |
| 14   | 5  | Subsurface | Iron          | mg/kg | 3.93E+04 | 4.88E-02  | 2.39E-02 | 3.28E-06   |                   |
| 14   | 5  | Subsurface | Manganese     | mg/kg | 1.06E+03 | 1.31E-03  | 5.14E-04 | 8.83E-08   |                   |
| 14   | 5  | Subsurface | Mercury       | mg/kg | 1.09E+01 | 1.36E-05  | 6.65E-06 | 2.72E-05   |                   |
| 14   | 5  | Subsurface | Nickel        | mg/kg | 4.63E+02 | 5.74E-04  | 2.25E-04 | 3.86E-08   |                   |
| 14   | 5  | Subsurface | PCB, Total    | mg/kg | 7.64E+00 | 9.48E-06  | 1.30E-05 | 1.07E-06   |                   |
| 14   | 5  | Subsurface | Silver        | mg/kg | 1.29E+01 | 1.60E-05  | 6.26E-06 | 1.07E-09   |                   |
| 14   | 5  | Subsurface | Thallium      | mg/kg | 3.52E-01 | 4.37E-07  | 2.14E-07 | 2.94E-11   |                   |
| 14   | 5  | Subsurface | Total PAH     | mg/kg | 9.48E-02 | 1.18E-07  | 1.50E-07 | 5.85E-10   |                   |
| 14   | 5  | Subsurface | Uranium       | mg/kg | 2.62E+02 | 3.26E-04  | 1.59E-04 | 2.19E-08   |                   |
| 14   | 5  | Subsurface | Vanadium      | mg/kg | 3.68E+01 | 4.57E-05  | 1.16E-05 | 3.07E-09   |                   |
| 14   | 5  | Subsurface | Neptunium-237 | pCi/g | 1.74E+00 | 3.86E+03  |          | 2.60E-01   | 5.88E+00          |
| 14   | 5  | Subsurface | Technetium-99 | pCi/g | 7.80E+01 | 1.73E+05  |          | 1.16E+01   | 2.63E+02          |
| 14   | 5  | Subsurface | Thorium-230   | pCi/g | 1.09E+01 | 2.42E+04  |          | 1.62E+00   | 3.68E+01          |
| 14   | 5  | Subsurface | Uranium-234   | pCi/g | 4.03E+01 | 8.94E+04  |          | 6.01E+00   | 1.36E+02          |
| 14   | 5  | Subsurface | Uranium-235   | pCi/g | 2.57E+00 | 5.71E+03  |          | 3.84E-01   | 8.69E+00          |
| 14   | 5  | Subsurface | Uranium-238   | pCi/g | 7.26E+01 | 1.61E+05  |          | 1.08E+01   | 2.45E+02          |
| 14   | 6  | Subsurface | Antimony      | mg/kg | 2.13E+00 | 2.64E-06  | 1.29E-06 | 1.78E-10   |                   |
| 14   | 6  | Subsurface | Arsenic       | mg/kg | 1.05E+01 | 1.30E-05  | 3.83E-06 | 8.76E-10   |                   |
| 14   | 6  | Subsurface | Cadmium       | mg/kg | 6.57E-01 | 8.16E-07  | 7.99E-09 | 5.48E-11   |                   |
| 14   | 6  | Subsurface | Chromium      | mg/kg | 4.39E+02 | 5.45E-04  | 2.67E-04 | 3.67E-08   |                   |
| 14   | 6  | Subsurface | Copper        | mg/kg | 1.22E+02 | 1.52E-04  | 7.43E-05 | 1.02E-08   |                   |
| 14   | 6  | Subsurface | Manganese     | mg/kg | 6.55E+02 | 8.12E-04  | 3.18E-04 | 5.46E-08   |                   |
| 14   | 6  | Subsurface | Mercury       | mg/kg | 3.47E-01 | 4.31E-07  | 2.11E-07 | 8.63E-07   |                   |
| 14   | 6  | Subsurface | Nickel        | mg/kg | 9.63E+02 | 1.20E-03  | 4.68E-04 | 8.04E-08   |                   |
| 14   | 6  | Subsurface | PCB, Total    | mg/kg | 5.00E+00 | 6.21E-06  | 8.51E-06 | 7.03E-07   |                   |
| 14   | 6  | Subsurface | Silver        | mg/kg | 1.47E+01 | 1.82E-05  | 7.12E-06 | 1.22E-09   |                   |
| 14   | 6  | Subsurface | Uranium       | mg/kg | 5.77E+02 | 7.16E-04  | 3.50E-04 | 4.81E-08   |                   |
| 14   | 6  | Subsurface | Neptunium-237 | pCi/g | 2.04E+00 | 4.52E+03  |          | 3.04E-01   | 6.89E+00          |
| 14   | 6  | Subsurface | Uranium-234   | pCi/g | 2.59E+01 | 5.75E+04  |          | 3.87E+00   | 8.76E+01          |
| 14   | 6  | Subsurface | Uranium-235   | pCi/g | 1.79E+00 | 3.97E+03  |          | 2.67E-01   | 6.04E+00          |
| 14   | 6  | Subsurface | Uranium-238   | pCi/g | 4.11E+01 | 9.12E+04  |          | 6.13E+00   | 1.39E+02          |
| 14   | 7  | Subsurface | Antimony      | mg/kg | 6.02E-01 | 7.47E-07  | 3.66E-07 | 5.02E-11   |                   |
| 14   | 7  | Subsurface | Arsenic       | mg/kg | 1.12E+01 | 1.39E-05  | 4.09E-06 | 9.37E-10   |                   |
| 14   | 7  | Subsurface | Cadmium       | mg/kg | 2.11E+00 | 2.62E-06  | 2.56E-08 | 1.76E-10   |                   |
| 14   | 7  | Subsurface | Chromium      | mg/kg | 6.46E+01 | 8.01E-05  | 3.92E-05 | 5.39E-09   |                   |
| 14   | 7  | Subsurface | Manganese     | mg/kg | 5.99E+02 | 7.44E-04  | 2.91E-04 | 5.00E-08   |                   |
| 14   | 7  | Subsurface | Mercury       | mg/kg | 7.82E+00 | 9.71E-06  | 4.75E-06 | 1.94E-05   |                   |
| 14   | 7  | Subsurface | Nickel        | mg/kg | 1.22E+03 | 1.52E-03  | 5.95E-04 | 1.02E-07   |                   |
| 14   | 7  | Subsurface | PCB, Total    | mg/kg | 7.60E+00 | 9.44E-06  | 1.29E-05 | 1.07E-06   |                   |
| 14   | 7  | Subsurface | Silver        | mg/kg | 1.63E+01 | 2.02E-05  | 7.90E-06 | 1.36E-09   |                   |
| 14   | 7  | Subsurface | Total PAH     | mg/kg | 4.88E-02 | 6.06E-08  | 7.71E-08 | 3.01E-10   |                   |
| 14   | 7  | Subsurface | Uranium       | mg/kg | 3.33E+02 | 4.13E-04  | 2.02E-04 | 2.78E-08   |                   |
| 14   | 7  | Subsurface | Neptunium-237 | pCi/g | 1.16E+00 | 2.58E+03  |          | 1.73E-01   | 3.92E+00          |
| 14   | 7  | Subsurface | Uranium-234   | pCi/g | 9.86E+00 | 2.19E+04  |          | 1.47E+00   | 3.33E+01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 7  | Subsurface | Uranium-235   | pCi/g | 7.29E-01 | 1.62E+03  |          | 1.09E-01   | 2.46E+00          |
| 14   | 7  | Subsurface | Uranium-238   | pCi/g | 1.60E+01 | 3.56E+04  |          | 2.39E+00   | 5.42E+01          |
| 14   | 8  | Subsurface | Antimony      | mg/kg | 5.01E-01 | 6.22E-07  | 3.04E-07 | 4.18E-11   |                   |
| 14   | 8  | Subsurface | Arsenic       | mg/kg | 1.22E+01 | 1.51E-05  | 4.44E-06 | 1.02E-09   |                   |
| 14   | 8  | Subsurface | Chromium      | mg/kg | 5.14E+01 | 6.38E-05  | 3.12E-05 | 4.29E-09   |                   |
| 14   | 8  | Subsurface | Copper        | mg/kg | 1.17E+02 | 1.45E-04  | 7.11E-05 | 9.76E-09   |                   |
| 14   | 8  | Subsurface | Mercury       | mg/kg | 8.70E+00 | 1.08E-05  | 5.29E-06 | 2.16E-05   |                   |
| 14   | 8  | Subsurface | Nickel        | mg/kg | 6.73E+02 | 8.35E-04  | 3.27E-04 | 5.61E-08   |                   |
| 14   | 8  | Subsurface | PCB, Total    | mg/kg | 5.00E+00 | 6.21E-06  | 8.51E-06 | 7.03E-07   |                   |
| 14   | 8  | Subsurface | Silver        | mg/kg | 1.18E+01 | 1.46E-05  | 5.74E-06 | 9.84E-10   |                   |
| 14   | 8  | Subsurface | Total PAH     | mg/kg | 4.13E-02 | 5.13E-08  | 6.53E-08 | 2.55E-10   |                   |
| 14   | 8  | Subsurface | Uranium       | mg/kg | 4.05E+02 | 5.03E-04  | 2.46E-04 | 3.38E-08   |                   |
| 14   | 8  | Subsurface | Neptunium-237 | pCi/g | 6.77E-01 | 1.50E+03  |          | 1.01E-01   | 2.29E+00          |
| 14   | 8  | Subsurface | Uranium-235   | pCi/g | 1.61E-01 | 3.57E+02  |          | 2.40E-02   | 5.44E-01          |
| 14   | 8  | Subsurface | Uranium-238   | pCi/g | 3.97E+00 | 8.81E+03  |          | 5.92E-01   | 1.34E+01          |
| 14   | 9  | Subsurface | Antimony      | mg/kg | 2.00E+00 | 2.48E-06  | 1.22E-06 | 1.67E-10   |                   |
| 14   | 9  | Subsurface | Arsenic       | mg/kg | 1.39E+01 | 1.72E-05  | 5.06E-06 | 1.16E-09   |                   |
| 14   | 9  | Subsurface | Cadmium       | mg/kg | 9.40E-01 | 1.17E-06  | 1.14E-08 | 7.84E-11   |                   |
| 14   | 9  | Subsurface | Chromium      | mg/kg | 4.64E+01 | 5.76E-05  | 2.82E-05 | 3.87E-09   |                   |
| 14   | 9  | Subsurface | Mercury       | mg/kg | 1.13E+00 | 1.40E-06  | 6.87E-07 | 2.81E-06   |                   |
| 14   | 9  | Subsurface | Nickel        | mg/kg | 9.43E+02 | 1.17E-03  | 4.59E-04 | 7.87E-08   |                   |
| 14   | 9  | Subsurface | PCB, Total    | mg/kg | 6.84E+00 | 8.49E-06  | 1.16E-05 | 9.62E-07   |                   |
| 14   | 9  | Subsurface | Total PAH     | mg/kg | 4.87E-01 | 6.05E-07  | 7.70E-07 | 3.01E-09   |                   |
| 14   | 9  | Subsurface | Uranium       | mg/kg | 1.46E+03 | 1.82E-03  | 8.90E-04 | 1.22E-07   |                   |
| 14   | 9  | Subsurface | Cesium-137    | pCi/g | 4.53E-01 | 1.01E+03  |          | 6.76E-02   | 1.53E+00          |
| 14   | 9  | Subsurface | Neptunium-237 | pCi/g | 1.09E+01 | 2.43E+04  |          | 1.63E+00   | 3.69E+01          |
| 14   | 9  | Subsurface | Technetium-99 | pCi/g | 1.96E+02 | 4.35E+05  |          | 2.92E+01   | 6.62E+02          |
| 14   | 9  | Subsurface | Uranium-234   | pCi/g | 8.32E+02 | 1.85E+06  |          | 1.24E+02   | 2.81E+03          |
| 14   | 9  | Subsurface | Uranium-235   | pCi/g | 5.46E+01 | 1.21E+05  |          | 8.14E+00   | 1.84E+02          |
| 14   | 9  | Subsurface | Uranium-238   | pCi/g | 1.20E+03 | 2.66E+06  |          | 1.79E+02   | 4.05E+03          |
| 14   | 10 | Subsurface | Antimony      | mg/kg | 8.55E-01 | 1.06E-06  | 5.20E-07 | 7.13E-11   |                   |
| 14   | 10 | Subsurface | Arsenic       | mg/kg | 1.15E+01 | 1.43E-05  | 4.20E-06 | 9.60E-10   |                   |
| 14   | 10 | Subsurface | Barium        | mg/kg | 1.39E+02 | 1.73E-04  | 8.45E-05 | 1.16E-08   |                   |
| 14   | 10 | Subsurface | Chromium      | mg/kg | 4.47E+01 | 5.55E-05  | 2.72E-05 | 3.73E-09   |                   |
| 14   | 10 | Subsurface | Copper        | mg/kg | 1.37E+02 | 1.70E-04  | 8.33E-05 | 1.14E-08   |                   |
| 14   | 10 | Subsurface | Iron          | mg/kg | 2.69E+04 | 3.34E-02  | 1.64E-02 | 2.25E-06   |                   |
| 14   | 10 | Subsurface | Manganese     | mg/kg | 7.11E+02 | 8.82E-04  | 3.46E-04 | 5.93E-08   |                   |
| 14   | 10 | Subsurface | Mercury       | mg/kg | 2.49E+01 | 3.09E-05  | 1.51E-05 | 6.19E-05   |                   |
| 14   | 10 | Subsurface | Nickel        | mg/kg | 5.80E+02 | 7.19E-04  | 2.82E-04 | 4.83E-08   |                   |
| 14   | 10 | Subsurface | PCB, Total    | mg/kg | 9.32E+00 | 1.16E-05  | 1.59E-05 | 1.31E-06   |                   |
| 14   | 10 | Subsurface | Silver        | mg/kg | 1.07E+01 | 1.33E-05  | 5.21E-06 | 8.93E-10   |                   |
| 14   | 10 | Subsurface | Total PAH     | mg/kg | 2.10E-01 | 2.61E-07  | 3.32E-07 | 1.30E-09   |                   |
| 14   | 10 | Subsurface | Uranium       | mg/kg | 2.80E+02 | 3.47E-04  | 1.70E-04 | 2.33E-08   |                   |
| 14   | 10 | Subsurface | Neptunium-237 | pCi/g | 2.05E+00 | 4.54E+03  |          | 3.05E-01   | 6.91E+00          |
| 14   | 10 | Subsurface | Uranium-234   | pCi/g | 1.92E+01 | 4.26E+04  |          | 2.86E+00   | 6.49E+01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration



**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 10 | Subsurface | Uranium-235   | pCi/g | 1.40E+00 | 3.10E+03  |          | 2.09E-01   | 4.72E+00          |
| 14   | 10 | Subsurface | Uranium-238   | pCi/g | 2.68E+01 | 5.96E+04  |          | 4.00E+00   | 9.07E+01          |
| 518  | 1  | Subsurface | Arsenic       | mg/kg | 6.45E+00 | 8.00E-06  | 2.35E-06 | 5.38E-10   |                   |
| 518  | 1  | Subsurface | Carbazole     | mg/kg | 1.17E+01 | 1.45E-05  | 1.42E-05 | 4.53E-07   |                   |
| 518  | 1  | Subsurface | Cobalt        | mg/kg | 6.80E+00 | 8.45E-06  | 4.13E-06 | 5.68E-10   |                   |
| 518  | 1  | Subsurface | Nickel        | mg/kg | 1.29E+01 | 1.60E-05  | 6.25E-06 | 1.07E-09   |                   |
| 518  | 1  | Subsurface | PCB, Total    | mg/kg | 6.30E-01 | 7.82E-07  | 1.07E-06 | 8.86E-08   |                   |
| 518  | 1  | Subsurface | Pyrene        | mg/kg | 3.94E+01 | 4.89E-05  | 6.23E-05 | 2.16E-06   |                   |
| 518  | 1  | Subsurface | Total PAH     | mg/kg | 3.90E+01 | 4.84E-05  | 6.16E-05 | 2.40E-07   |                   |
| 518  | 1  | Subsurface | Uranium       | mg/kg | 2.17E+02 | 2.69E-04  | 1.32E-04 | 1.81E-08   |                   |
| 518  | 1  | Subsurface | Uranium-235   | pCi/g | 6.74E-02 | 1.50E+02  |          | 1.01E-02   | 2.28E-01          |
| 518  | 1  | Subsurface | Uranium-238   | pCi/g | 1.51E+00 | 3.36E+03  |          | 2.26E-01   | 5.12E+00          |
| 520  | 1  | Subsurface | Aluminum      | mg/kg | 9.61E+03 | 1.19E-02  | 5.84E-03 | 8.02E-07   |                   |
| 520  | 1  | Subsurface | Arsenic       | mg/kg | 8.83E+00 | 1.10E-05  | 3.22E-06 | 7.37E-10   |                   |
| 520  | 1  | Subsurface | Barium        | mg/kg | 1.57E+02 | 1.95E-04  | 9.55E-05 | 1.31E-08   |                   |
| 520  | 1  | Subsurface | Beryllium     | mg/kg | 5.77E-01 | 7.16E-07  | 4.91E-08 | 4.81E-11   |                   |
| 520  | 1  | Subsurface | Chromium      | mg/kg | 5.95E+01 | 7.39E-05  | 3.62E-05 | 4.97E-09   |                   |
| 520  | 1  | Subsurface | Cobalt        | mg/kg | 1.08E+01 | 1.34E-05  | 6.54E-06 | 8.98E-10   |                   |
| 520  | 1  | Subsurface | Iron          | mg/kg | 1.70E+04 | 2.11E-02  | 1.03E-02 | 1.42E-06   |                   |
| 520  | 1  | Subsurface | Manganese     | mg/kg | 7.31E+02 | 9.07E-04  | 3.55E-04 | 6.10E-08   |                   |
| 520  | 1  | Subsurface | Mercury       | mg/kg | 1.07E+01 | 1.33E-05  | 6.49E-06 | 2.66E-05   |                   |
| 520  | 1  | Subsurface | Nickel        | mg/kg | 2.56E+02 | 3.18E-04  | 1.24E-04 | 2.14E-08   |                   |
| 520  | 1  | Subsurface | Silver        | mg/kg | 1.40E+01 | 1.73E-05  | 6.78E-06 | 1.16E-09   |                   |
| 520  | 1  | Subsurface | Total PAH     | mg/kg | 3.18E-02 | 3.95E-08  | 5.03E-08 | 1.96E-10   |                   |
| 520  | 1  | Subsurface | Uranium       | mg/kg | 1.75E+01 | 2.17E-05  | 1.06E-05 | 1.46E-09   |                   |
| 520  | 1  | Subsurface | Cesium-137    | pCi/g | 8.53E-01 | 1.89E+03  |          | 1.27E-01   | 2.88E+00          |
| 520  | 1  | Subsurface | Neptunium-237 | pCi/g | 5.37E-01 | 1.19E+03  |          | 8.01E-02   | 1.81E+00          |
| 520  | 1  | Subsurface | Thorium-230   | pCi/g | 1.02E+01 | 2.27E+04  |          | 1.52E+00   | 3.45E+01          |
| 520  | 1  | Subsurface | Uranium-235   | pCi/g | 1.21E-01 | 2.69E+02  |          | 1.81E-02   | 4.09E-01          |
| 520  | 1  | Subsurface | Uranium-238   | pCi/g | 3.69E+00 | 8.19E+03  |          | 5.50E-01   | 1.25E+01          |
| 520  | 2  | Subsurface | Arsenic       | mg/kg | 9.87E+00 | 1.23E-05  | 3.60E-06 | 8.23E-10   |                   |
| 520  | 2  | Subsurface | Chromium      | mg/kg | 6.67E+01 | 8.27E-05  | 4.05E-05 | 5.56E-09   |                   |
| 520  | 2  | Subsurface | Manganese     | mg/kg | 6.49E+02 | 8.05E-04  | 3.15E-04 | 5.41E-08   |                   |
| 520  | 2  | Subsurface | Mercury       | mg/kg | 1.19E+01 | 1.47E-05  | 7.22E-06 | 2.95E-05   |                   |
| 520  | 2  | Subsurface | Nickel        | mg/kg | 3.10E+02 | 3.85E-04  | 1.51E-04 | 2.59E-08   |                   |
| 520  | 2  | Subsurface | Total PAH     | mg/kg | 2.53E-01 | 3.14E-07  | 4.00E-07 | 1.56E-09   |                   |
| 520  | 2  | Subsurface | Uranium       | mg/kg | 3.96E+01 | 4.91E-05  | 2.40E-05 | 3.30E-09   |                   |
| 520  | 2  | Subsurface | Neptunium-237 | pCi/g | 5.90E-02 | 1.31E+02  |          | 8.80E-03   | 1.99E-01          |
| 520  | 2  | Subsurface | Uranium-238   | pCi/g | 1.58E+00 | 3.50E+03  |          | 2.35E-01   | 5.32E+00          |
| 520  | 3  | Subsurface | Arsenic       | mg/kg | 1.04E+01 | 1.30E-05  | 3.81E-06 | 8.71E-10   |                   |
| 520  | 3  | Subsurface | Chromium      | mg/kg | 6.57E+01 | 8.16E-05  | 3.99E-05 | 5.48E-09   |                   |
| 520  | 3  | Subsurface | Copper        | mg/kg | 1.18E+02 | 1.46E-04  | 7.16E-05 | 9.83E-09   |                   |
| 520  | 3  | Subsurface | Mercury       | mg/kg | 6.65E+00 | 8.25E-06  | 4.04E-06 | 1.65E-05   |                   |
| 520  | 3  | Subsurface | Nickel        | mg/kg | 3.31E+02 | 4.11E-04  | 1.61E-04 | 2.76E-08   |                   |
| 520  | 3  | Subsurface | Silver        | mg/kg | 1.26E+01 | 1.57E-05  | 6.14E-06 | 1.05E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 520  | 3  | Subsurface | Total PAH     | mg/kg | 7.42E-02 | 9.21E-08  | 1.17E-07 | 4.58E-10   |                   |
| 520  | 3  | Subsurface | Uranium       | mg/kg | 1.85E+01 | 2.30E-05  | 1.13E-05 | 1.55E-09   |                   |
| 520  | 3  | Subsurface | Uranium-238   | pCi/g | 1.34E+00 | 2.97E+03  |          | 2.00E-01   | 4.52E+00          |
| 520  | 4  | Subsurface | Arsenic       | mg/kg | 9.35E+00 | 1.16E-05  | 3.41E-06 | 7.80E-10   |                   |
| 520  | 4  | Subsurface | Beryllium     | mg/kg | 7.27E-01 | 9.02E-07  | 6.19E-08 | 6.06E-11   |                   |
| 520  | 4  | Subsurface | Cadmium       | mg/kg | 1.17E+00 | 1.46E-06  | 1.43E-08 | 9.78E-11   |                   |
| 520  | 4  | Subsurface | Chromium      | mg/kg | 6.60E+01 | 8.19E-05  | 4.01E-05 | 5.51E-09   |                   |
| 520  | 4  | Subsurface | Copper        | mg/kg | 1.10E+02 | 1.36E-04  | 6.67E-05 | 9.16E-09   |                   |
| 520  | 4  | Subsurface | Iron          | mg/kg | 1.65E+04 | 2.05E-02  | 1.00E-02 | 1.38E-06   |                   |
| 520  | 4  | Subsurface | Manganese     | mg/kg | 5.73E+02 | 7.11E-04  | 2.79E-04 | 4.78E-08   |                   |
| 520  | 4  | Subsurface | Mercury       | mg/kg | 9.69E+00 | 1.20E-05  | 5.89E-06 | 2.41E-05   |                   |
| 520  | 4  | Subsurface | Nickel        | mg/kg | 2.82E+02 | 3.50E-04  | 1.37E-04 | 2.35E-08   |                   |
| 520  | 4  | Subsurface | Silver        | mg/kg | 1.23E+01 | 1.52E-05  | 5.96E-06 | 1.02E-09   |                   |
| 520  | 4  | Subsurface | Total PAH     | mg/kg | 5.52E-01 | 6.86E-07  | 8.73E-07 | 3.41E-09   |                   |
| 520  | 4  | Subsurface | Uranium       | mg/kg | 2.27E+01 | 2.81E-05  | 1.38E-05 | 1.89E-09   |                   |
| 520  | 4  | Subsurface | Vanadium      | mg/kg | 4.43E+01 | 5.50E-05  | 1.40E-05 | 3.69E-09   |                   |
| 520  | 4  | Subsurface | Neptunium-237 | pCi/g | 7.40E-01 | 1.64E+03  |          | 1.10E-01   | 2.50E+00          |
| 520  | 4  | Subsurface | Uranium-235   | pCi/g | 2.42E-01 | 5.37E+02  |          | 3.61E-02   | 8.18E-01          |
| 520  | 4  | Subsurface | Uranium-238   | pCi/g | 6.26E+00 | 1.39E+04  |          | 9.34E-01   | 2.12E+01          |
| 520  | 5  | Subsurface | Antimony      | mg/kg | 6.62E-01 | 8.22E-07  | 4.02E-07 | 5.52E-11   |                   |
| 520  | 5  | Subsurface | Arsenic       | mg/kg | 9.97E+00 | 1.24E-05  | 3.63E-06 | 8.31E-10   |                   |
| 520  | 5  | Subsurface | Barium        | mg/kg | 1.38E+02 | 1.71E-04  | 8.37E-05 | 1.15E-08   |                   |
| 520  | 5  | Subsurface | Beryllium     | mg/kg | 7.01E-01 | 8.70E-07  | 5.96E-08 | 5.85E-11   |                   |
| 520  | 5  | Subsurface | Chromium      | mg/kg | 4.94E+01 | 6.13E-05  | 3.00E-05 | 4.12E-09   |                   |
| 520  | 5  | Subsurface | Iron          | mg/kg | 1.70E+04 | 2.11E-02  | 1.03E-02 | 1.42E-06   |                   |
| 520  | 5  | Subsurface | Manganese     | mg/kg | 5.45E+02 | 6.76E-04  | 2.65E-04 | 4.54E-08   |                   |
| 520  | 5  | Subsurface | Mercury       | mg/kg | 6.94E+00 | 8.61E-06  | 4.22E-06 | 1.73E-05   |                   |
| 520  | 5  | Subsurface | Nickel        | mg/kg | 1.12E+02 | 1.39E-04  | 5.45E-05 | 9.36E-09   |                   |
| 520  | 5  | Subsurface | Total PAH     | mg/kg | 3.87E-01 | 4.81E-07  | 6.12E-07 | 2.39E-09   |                   |
| 520  | 5  | Subsurface | Vanadium      | mg/kg | 3.01E+01 | 3.73E-05  | 9.51E-06 | 2.51E-09   |                   |
| 520  | 5  | Subsurface | Neptunium-237 | pCi/g | 1.55E-01 | 3.44E+02  |          | 2.31E-02   | 5.24E-01          |
| 520  | 5  | Subsurface | Uranium-238   | pCi/g | 1.45E+00 | 3.22E+03  |          | 2.16E-01   | 4.90E+00          |
| 81   | 1  | Subsurface | Aluminum      | mg/kg | 9.55E+03 | 1.19E-02  | 5.80E-03 | 7.96E-07   |                   |
| 81   | 1  | Subsurface | Arsenic       | mg/kg | 1.11E+01 | 1.38E-05  | 4.05E-06 | 9.27E-10   |                   |
| 81   | 1  | Subsurface | Beryllium     | mg/kg | 6.98E-01 | 8.66E-07  | 5.94E-08 | 5.82E-11   |                   |
| 81   | 1  | Subsurface | Chromium      | mg/kg | 6.38E+01 | 7.92E-05  | 3.88E-05 | 5.32E-09   |                   |
| 81   | 1  | Subsurface | Cobalt        | mg/kg | 1.58E+01 | 1.96E-05  | 9.60E-06 | 1.32E-09   |                   |
| 81   | 1  | Subsurface | Manganese     | mg/kg | 1.12E+03 | 1.39E-03  | 5.45E-04 | 9.35E-08   |                   |
| 81   | 1  | Subsurface | Mercury       | mg/kg | 8.33E+00 | 1.03E-05  | 5.06E-06 | 2.07E-05   |                   |
| 81   | 1  | Subsurface | Nickel        | mg/kg | 7.50E+01 | 9.31E-05  | 3.64E-05 | 6.25E-09   |                   |
| 81   | 1  | Subsurface | PCB, Total    | mg/kg | 1.60E+02 | 1.98E-04  | 2.72E-04 | 2.25E-05   |                   |
| 81   | 1  | Subsurface | Silver        | mg/kg | 2.70E+00 | 3.35E-06  | 1.31E-06 | 2.25E-10   |                   |
| 81   | 1  | Subsurface | Thallium      | mg/kg | 3.49E-01 | 4.33E-07  | 2.12E-07 | 2.91E-11   |                   |
| 81   | 1  | Subsurface | Total PAH     | mg/kg | 4.95E-01 | 6.14E-07  | 7.82E-07 | 3.05E-09   |                   |
| 81   | 1  | Subsurface | Uranium       | mg/kg | 6.50E+03 | 8.07E-03  | 3.95E-03 | 5.42E-07   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface and Subsurface Soil (Continued)**

| SWMU | EU | Depth      | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|------------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 81   | 1  | Subsurface | Uranium-238   | pCi/g | 2.29E+00 | 5.07E+03  |          | 3.41E-01   | 7.72E+00          |
| 153  | 1  | Subsurface | Arsenic       | mg/kg | 9.92E+00 | 1.23E-05  | 3.62E-06 | 8.27E-10   |                   |
| 153  | 1  | Subsurface | Chromium      | mg/kg | 6.59E+01 | 8.18E-05  | 4.01E-05 | 5.50E-09   |                   |
| 153  | 1  | Subsurface | Manganese     | mg/kg | 5.73E+02 | 7.12E-04  | 2.79E-04 | 4.78E-08   |                   |
| 153  | 1  | Subsurface | Nickel        | mg/kg | 7.83E+01 | 9.72E-05  | 3.81E-05 | 6.53E-09   |                   |
| 153  | 1  | Subsurface | PCB, Total    | mg/kg | 6.00E-01 | 7.45E-07  | 1.02E-06 | 8.44E-08   |                   |
| 153  | 1  | Subsurface | Silver        | mg/kg | 1.32E+01 | 1.63E-05  | 6.40E-06 | 1.10E-09   |                   |
| 153  | 1  | Subsurface | Total PAH     | mg/kg | 7.31E-02 | 9.07E-08  | 1.15E-07 | 4.51E-10   |                   |
| 156  | 1  | Subsurface | Arsenic       | mg/kg | 1.11E+01 | 1.38E-05  | 4.05E-06 | 9.26E-10   |                   |
| 156  | 1  | Subsurface | Beryllium     | mg/kg | 1.00E+00 | 1.24E-06  | 8.51E-08 | 8.34E-11   |                   |
| 156  | 1  | Subsurface | Chromium      | mg/kg | 6.31E+01 | 7.83E-05  | 3.83E-05 | 5.26E-09   |                   |
| 156  | 1  | Subsurface | Cobalt        | mg/kg | 1.72E+01 | 2.13E-05  | 1.05E-05 | 1.43E-09   |                   |
| 156  | 1  | Subsurface | Manganese     | mg/kg | 2.83E+03 | 3.52E-03  | 1.38E-03 | 2.36E-07   |                   |
| 156  | 1  | Subsurface | Mercury       | mg/kg | 9.87E+00 | 1.23E-05  | 6.00E-06 | 2.45E-05   |                   |
| 156  | 1  | Subsurface | Nickel        | mg/kg | 6.16E+01 | 7.65E-05  | 3.00E-05 | 5.14E-09   |                   |
| 156  | 1  | Subsurface | PCB, Total    | mg/kg | 3.00E-01 | 3.72E-07  | 5.10E-07 | 4.22E-08   |                   |
| 156  | 1  | Subsurface | Silver        | mg/kg | 1.19E+01 | 1.48E-05  | 5.80E-06 | 9.94E-10   |                   |
| 156  | 1  | Subsurface | Total PAH     | mg/kg | 8.26E-02 | 1.03E-07  | 1.31E-07 | 5.10E-10   |                   |
| 156  | 1  | Subsurface | Uranium       | mg/kg | 2.32E+01 | 2.88E-05  | 1.41E-05 | 1.93E-09   |                   |
| 156  | 1  | Subsurface | Uranium-238   | pCi/g | 2.19E+00 | 4.86E+03  |          | 3.27E-01   | 7.40E+00          |
| 160  | 1  | Subsurface | Antimony      | mg/kg | 6.80E-01 | 8.44E-07  | 4.13E-07 | 5.67E-11   |                   |
| 160  | 1  | Subsurface | Arsenic       | mg/kg | 8.22E+00 | 1.02E-05  | 3.00E-06 | 6.86E-10   |                   |
| 160  | 1  | Subsurface | Chromium      | mg/kg | 4.63E+01 | 5.74E-05  | 2.81E-05 | 3.86E-09   |                   |
| 160  | 1  | Subsurface | Silver        | mg/kg | 1.13E+01 | 1.40E-05  | 5.47E-06 | 9.39E-10   |                   |
| 160  | 1  | Subsurface | Total PAH     | mg/kg | 1.02E-01 | 1.27E-07  | 1.61E-07 | 6.30E-10   |                   |
| 163  | 1  | Subsurface | Arsenic       | mg/kg | 1.00E+01 | 1.24E-05  | 3.65E-06 | 8.34E-10   |                   |
| 163  | 1  | Subsurface | Chromium      | mg/kg | 5.89E+01 | 7.31E-05  | 3.58E-05 | 4.91E-09   |                   |
| 163  | 1  | Subsurface | Mercury       | mg/kg | 7.53E+00 | 9.35E-06  | 4.58E-06 | 1.87E-05   |                   |
| 163  | 1  | Subsurface | Nickel        | mg/kg | 7.54E+01 | 9.36E-05  | 3.67E-05 | 6.29E-09   |                   |
| 163  | 1  | Subsurface | Silver        | mg/kg | 1.05E+01 | 1.31E-05  | 5.12E-06 | 8.78E-10   |                   |
| 163  | 1  | Subsurface | Total PAH     | mg/kg | 1.07E-01 | 1.33E-07  | 1.69E-07 | 6.60E-10   |                   |
| 163  | 1  | Subsurface | Vanadium      | mg/kg | 3.21E+01 | 3.99E-05  | 1.02E-05 | 2.68E-09   |                   |
| 219  | 1  | Subsurface | Nickel        | mg/kg | 6.71E+01 | 8.33E-05  | 3.26E-05 | 5.60E-09   |                   |
| 219  | 1  | Subsurface | Total PAH     | mg/kg | 7.50E-02 | 9.31E-08  | 1.19E-07 | 4.63E-10   |                   |
| 219  | 1  | Subsurface | Neptunium-237 | pCi/g | 3.31E-01 | 7.35E+02  |          | 4.94E-02   | 1.12E+00          |
| 219  | 1  | Subsurface | Uranium-235   | pCi/g | 1.92E-01 | 4.26E+02  |          | 2.86E-02   | 6.49E-01          |
| 219  | 1  | Subsurface | Uranium-238   | pCi/g | 4.40E+00 | 9.77E+03  |          | 6.56E-01   | 1.49E+01          |
| 488  | 1  | Subsurface | Arsenic       | mg/kg | 8.89E+00 | 1.10E-05  | 3.24E-06 | 7.42E-10   |                   |
| 488  | 1  | Subsurface | Chromium      | mg/kg | 5.31E+01 | 6.58E-05  | 3.22E-05 | 4.43E-09   |                   |
| 488  | 1  | Subsurface | PCB, Total    | mg/kg | 1.03E+01 | 1.28E-05  | 1.75E-05 | 1.45E-06   |                   |
| 488  | 1  | Subsurface | Total PAH     | mg/kg | 2.50E-01 | 3.10E-07  | 3.95E-07 | 1.54E-09   |                   |
| 488  | 1  | Subsurface | Uranium       | mg/kg | 1.48E+01 | 1.84E-05  | 8.99E-06 | 1.23E-09   |                   |
| 488  | 1  | Subsurface | Cesium-137    | pCi/g | 5.20E-01 | 1.15E+03  |          | 7.76E-02   | 1.76E+00          |
| 488  | 1  | Subsurface | Uranium-235   | pCi/g | 1.49E-01 | 3.31E+02  |          | 2.22E-02   | 5.03E-01          |
| 488  | 1  | Subsurface | Uranium-238   | pCi/g | 4.54E+00 | 1.01E+04  |          | 6.77E-01   | 1.53E+01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 1           | 1         | Surface      | Beryllium   | mg/kg        | 3.89E+00   | 1.35E-05         | 9.28E-07      | 9.10E-10          |
| 1           | 1         | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 3.82E-06         | 3.74E-08      | 2.57E-10          |
| 1           | 1         | Surface      | Chromium    | mg/kg        | 1.28E+01   | 4.46E-05         | 2.18E-05      | 2.99E-09          |
| 1           | 1         | Surface      | PCB, Total  | mg/kg        | 1.76E-01   | 6.12E-07         | 8.39E-07      | 6.93E-08          |
| 1           | 2         | Surface      | Beryllium   | mg/kg        | 8.23E+00   | 2.86E-05         | 1.96E-06      | 1.92E-09          |
| 1           | 2         | Surface      | Cadmium     | mg/kg        | 6.46E+00   | 2.25E-05         | 2.20E-07      | 1.51E-09          |
| 1           | 2         | Surface      | Chromium    | mg/kg        | 2.01E+02   | 6.99E-04         | 3.42E-04      | 4.70E-08          |
| 1           | 2         | Surface      | Copper      | mg/kg        | 1.81E+02   | 6.29E-04         | 3.08E-04      | 4.23E-08          |
| 1           | 2         | Surface      | Mercury     | mg/kg        | 5.94E+00   | 2.06E-05         | 1.01E-05      | 4.13E-05          |
| 1           | 2         | Surface      | Nickel      | mg/kg        | 5.75E+01   | 2.00E-04         | 7.82E-05      | 1.34E-08          |
| 1           | 2         | Surface      | PCB, Total  | mg/kg        | 3.21E+01   | 1.12E-04         | 1.53E-04      | 1.26E-05          |
| 1           | 2         | Surface      | Silver      | mg/kg        | 3.31E+01   | 1.15E-04         | 4.51E-05      | 7.74E-09          |
| 1           | 2         | Surface      | Thallium    | mg/kg        | 3.70E-01   | 1.29E-06         | 6.30E-07      | 8.64E-11          |
| 1           | 2         | Surface      | Vanadium    | mg/kg        | 3.49E+01   | 1.21E-04         | 3.08E-05      | 8.14E-09          |
| 1           | 3         | Surface      | Chromium    | mg/kg        | 1.45E+01   | 5.03E-05         | 2.46E-05      | 3.38E-09          |
| 1           | 3         | Surface      | PCB, Total  | mg/kg        | 2.17E-01   | 7.54E-07         | 1.03E-06      | 8.54E-08          |
| 1           | 4         | Surface      | Beryllium   | mg/kg        | 7.25E-01   | 2.52E-06         | 1.73E-07      | 1.69E-10          |
| 1           | 4         | Surface      | Chromium    | mg/kg        | 9.30E+01   | 3.23E-04         | 1.58E-04      | 2.17E-08          |
| 1           | 4         | Surface      | Nickel      | mg/kg        | 4.69E+01   | 1.63E-04         | 6.38E-05      | 1.09E-08          |
| 1           | 4         | Surface      | PCB, Total  | mg/kg        | 1.30E-01   | 4.52E-07         | 6.19E-07      | 5.12E-08          |
| 1           | 5         | Surface      | Beryllium   | mg/kg        | 8.30E+00   | 2.88E-05         | 1.98E-06      | 1.94E-09          |
| 1           | 5         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 4.17E-06         | 4.08E-08      | 2.80E-10          |
| 1           | 5         | Surface      | Nickel      | mg/kg        | 4.07E+01   | 1.41E-04         | 5.54E-05      | 9.51E-09          |
| 1           | 5         | Surface      | PCB, Total  | mg/kg        | 2.70E-01   | 9.38E-07         | 1.29E-06      | 1.06E-07          |
| 1           | 5         | Surface      | Total PAH   | mg/kg        | 9.83E-02   | 3.42E-07         | 4.35E-07      | 1.70E-09          |
| 99          | 1         | Surface      | Chromium    | mg/kg        | 5.51E+01   | 1.92E-04         | 9.38E-05      | 1.29E-08          |
| 99          | 1         | Surface      | Mercury     | mg/kg        | 9.53E+00   | 3.31E-05         | 1.62E-05      | 6.64E-05          |
| 99          | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 2.44E-04         | 9.56E-05      | 1.64E-08          |
| 99          | 1         | Surface      | Silver      | mg/kg        | 1.03E+01   | 3.58E-05         | 1.40E-05      | 2.41E-09          |
| 194         | 1         | Surface      | Antimony    | mg/kg        | 1.50E+00   | 5.21E-06         | 2.55E-06      | 3.50E-10          |
| 194         | 1         | Surface      | Chromium    | mg/kg        | 3.87E+01   | 1.35E-04         | 6.59E-05      | 9.04E-09          |
| 194         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 2.33E-05         | 1.14E-05      | 4.67E-05          |
| 194         | 1         | Surface      | Nickel      | mg/kg        | 5.84E+01   | 2.03E-04         | 7.95E-05      | 1.36E-08          |
| 194         | 1         | Surface      | Silver      | mg/kg        | 1.09E+01   | 3.80E-05         | 1.49E-05      | 2.55E-09          |
| 194         | 2         | Surface      | Chromium    | mg/kg        | 5.96E+01   | 2.07E-04         | 1.01E-04      | 1.39E-08          |
| 194         | 2         | Surface      | Silver      | mg/kg        | 1.31E+01   | 4.56E-05         | 1.79E-05      | 3.07E-09          |
| 194         | 2         | Surface      | Uranium     | mg/kg        | 2.28E+01   | 7.92E-05         | 3.88E-05      | 5.32E-09          |
| 194         | 3         | Surface      | Antimony    | mg/kg        | 6.90E-01   | 2.40E-06         | 1.17E-06      | 1.61E-10          |
| 194         | 3         | Surface      | Arsenic     | mg/kg        | 1.46E+01   | 5.09E-05         | 1.49E-05      | 3.42E-09          |
| 194         | 3         | Surface      | Chromium    | mg/kg        | 3.90E+01   | 1.35E-04         | 6.63E-05      | 9.10E-09          |
| 194         | 3         | Surface      | Nickel      | mg/kg        | 6.40E+01   | 2.23E-04         | 8.72E-05      | 1.50E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 3         | Surface      | Total PAH   | mg/kg        | 3.93E-02   | 1.37E-07         | 1.74E-07      | 6.79E-10          |
| 194         | 4         | Surface      | Chromium    | mg/kg        | 4.84E+01   | 1.68E-04         | 8.24E-05      | 1.13E-08          |
| 194         | 4         | Surface      | Mercury     | mg/kg        | 8.92E+00   | 3.10E-05         | 1.52E-05      | 6.21E-05          |
| 194         | 4         | Surface      | Nickel      | mg/kg        | 6.91E+01   | 2.40E-04         | 9.40E-05      | 1.61E-08          |
| 194         | 4         | Surface      | Silver      | mg/kg        | 1.18E+01   | 4.09E-05         | 1.60E-05      | 2.75E-09          |
| 194         | 4         | Surface      | Total PAH   | mg/kg        | 7.30E-02   | 2.54E-07         | 3.23E-07      | 1.26E-09          |
| 194         | 5         | Surface      | Chromium    | mg/kg        | 4.58E+01   | 1.59E-04         | 7.79E-05      | 1.07E-08          |
| 194         | 5         | Surface      | Mercury     | mg/kg        | 8.69E+00   | 3.02E-05         | 1.48E-05      | 6.05E-05          |
| 194         | 5         | Surface      | Nickel      | mg/kg        | 7.54E+01   | 2.62E-04         | 1.03E-04      | 1.76E-08          |
| 194         | 5         | Surface      | Silver      | mg/kg        | 1.25E+01   | 4.33E-05         | 1.69E-05      | 2.91E-09          |
| 194         | 5         | Surface      | Total PAH   | mg/kg        | 2.37E-02   | 8.24E-08         | 1.05E-07      | 4.09E-10          |
| 194         | 6         | Surface      | Chromium    | mg/kg        | 3.70E+01   | 1.29E-04         | 6.30E-05      | 8.64E-09          |
| 194         | 6         | Surface      | Manganese   | mg/kg        | 1.08E+03   | 3.75E-03         | 1.47E-03      | 2.52E-07          |
| 194         | 6         | Surface      | Nickel      | mg/kg        | 8.06E+01   | 2.80E-04         | 1.10E-04      | 1.88E-08          |
| 194         | 6         | Surface      | Silver      | mg/kg        | 9.89E+00   | 3.44E-05         | 1.35E-05      | 2.31E-09          |
| 194         | 7         | Surface      | Chromium    | mg/kg        | 5.32E+01   | 1.85E-04         | 9.05E-05      | 1.24E-08          |
| 194         | 7         | Surface      | Nickel      | mg/kg        | 7.71E+01   | 2.68E-04         | 1.05E-04      | 1.80E-08          |
| 194         | 7         | Surface      | Silver      | mg/kg        | 1.25E+01   | 4.34E-05         | 1.70E-05      | 2.92E-09          |
| 194         | 8         | Surface      | Chromium    | mg/kg        | 5.36E+01   | 1.86E-04         | 9.12E-05      | 1.25E-08          |
| 194         | 8         | Surface      | Manganese   | mg/kg        | 8.00E+02   | 2.78E-03         | 1.09E-03      | 1.87E-07          |
| 194         | 8         | Surface      | Total PAH   | mg/kg        | 4.85E-01   | 1.69E-06         | 2.15E-06      | 8.38E-09          |
| 194         | 9         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 3.97E-05         | 1.17E-05      | 2.67E-09          |
| 194         | 9         | Surface      | Chromium    | mg/kg        | 5.17E+01   | 1.80E-04         | 8.79E-05      | 1.21E-08          |
| 194         | 10        | Surface      | Arsenic     | mg/kg        | 1.22E+01   | 4.23E-05         | 1.24E-05      | 2.84E-09          |
| 194         | 10        | Surface      | Chromium    | mg/kg        | 3.63E+01   | 1.26E-04         | 6.17E-05      | 8.48E-09          |
| 194         | 10        | Surface      | Nickel      | mg/kg        | 7.60E+01   | 2.64E-04         | 1.03E-04      | 1.77E-08          |
| 194         | 10        | Surface      | Total PAH   | mg/kg        | 2.57E-01   | 8.94E-07         | 1.14E-06      | 4.44E-09          |
| 194         | 11        | Surface      | Chromium    | mg/kg        | 3.27E+01   | 1.14E-04         | 5.56E-05      | 7.63E-09          |
| 194         | 11        | Surface      | Mercury     | mg/kg        | 8.09E+00   | 2.81E-05         | 1.38E-05      | 5.63E-05          |
| 194         | 11        | Surface      | Nickel      | mg/kg        | 1.01E+02   | 3.50E-04         | 1.37E-04      | 2.35E-08          |
| 194         | 11        | Surface      | PCB, Total  | mg/kg        | 8.40E-02   | 2.92E-07         | 4.00E-07      | 3.31E-08          |
| 194         | 11        | Surface      | Silver      | mg/kg        | 1.33E+01   | 4.62E-05         | 1.81E-05      | 3.10E-09          |
| 194         | 11        | Surface      | Total PAH   | mg/kg        | 7.95E-02   | 2.76E-07         | 3.52E-07      | 1.37E-09          |
| 194         | 12        | Surface      | Chromium    | mg/kg        | 6.34E+01   | 2.20E-04         | 1.08E-04      | 1.48E-08          |
| 194         | 12        | Surface      | Nickel      | mg/kg        | 7.86E+01   | 2.73E-04         | 1.07E-04      | 1.84E-08          |
| 194         | 12        | Surface      | Silver      | mg/kg        | 1.20E+01   | 4.16E-05         | 1.63E-05      | 2.80E-09          |
| 194         | 12        | Surface      | Total PAH   | mg/kg        | 8.91E-01   | 3.10E-06         | 3.94E-06      | 1.54E-08          |
| 194         | 13        | Surface      | Chromium    | mg/kg        | 4.77E+01   | 1.66E-04         | 8.11E-05      | 1.11E-08          |
| 194         | 13        | Surface      | Nickel      | mg/kg        | 6.03E+01   | 2.10E-04         | 8.21E-05      | 1.41E-08          |
| 194         | 13        | Surface      | Total PAH   | mg/kg        | 9.13E-02   | 3.17E-07         | 4.04E-07      | 1.58E-09          |
| 194         | 14        | Surface      | Chromium    | mg/kg        | 5.21E+01   | 1.81E-04         | 8.87E-05      | 1.22E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 14        | Surface      | Mercury     | mg/kg        | 8.14E+00   | 2.83E-05         | 1.39E-05      | 5.67E-05          |
| 194         | 15        | Surface      | Chromium    | mg/kg        | 5.33E+01   | 1.85E-04         | 9.07E-05      | 1.25E-08          |
| 194         | 15        | Surface      | Silver      | mg/kg        | 1.03E+01   | 3.58E-05         | 1.40E-05      | 2.41E-09          |
| 194         | 16        | Surface      | Antimony    | mg/kg        | 7.40E-01   | 2.57E-06         | 1.26E-06      | 1.73E-10          |
| 194         | 16        | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 4.00E-05         | 1.18E-05      | 2.69E-09          |
| 194         | 16        | Surface      | Beryllium   | mg/kg        | 8.70E-01   | 3.02E-06         | 2.07E-07      | 2.03E-10          |
| 194         | 16        | Surface      | Chromium    | mg/kg        | 5.32E+01   | 1.85E-04         | 9.06E-05      | 1.24E-08          |
| 194         | 16        | Surface      | Nickel      | mg/kg        | 7.20E+01   | 2.50E-04         | 9.81E-05      | 1.68E-08          |
| 194         | 16        | Surface      | Thallium    | mg/kg        | 6.30E-01   | 2.19E-06         | 1.07E-06      | 1.47E-10          |
| 194         | 16        | Surface      | Vanadium    | mg/kg        | 4.11E+01   | 1.43E-04         | 3.64E-05      | 9.60E-09          |
| 194         | 17        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 4.01E-05         | 1.18E-05      | 2.70E-09          |
| 194         | 17        | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 3.82E-06         | 3.74E-08      | 2.57E-10          |
| 194         | 17        | Surface      | Chromium    | mg/kg        | 4.65E+01   | 1.62E-04         | 7.91E-05      | 1.09E-08          |
| 194         | 17        | Surface      | Total PAH   | mg/kg        | 1.59E-01   | 5.51E-07         | 7.02E-07      | 2.74E-09          |
| 194         | 18        | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 3.67E-05         | 1.08E-05      | 2.47E-09          |
| 194         | 18        | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 2.57E-06         | 1.76E-07      | 1.73E-10          |
| 194         | 18        | Surface      | Chromium    | mg/kg        | 6.85E+01   | 2.38E-04         | 1.17E-04      | 1.60E-08          |
| 194         | 18        | Surface      | Nickel      | mg/kg        | 5.78E+01   | 2.01E-04         | 7.87E-05      | 1.35E-08          |
| 194         | 19        | Surface      | Arsenic     | mg/kg        | 1.07E+01   | 3.72E-05         | 1.09E-05      | 2.50E-09          |
| 194         | 19        | Surface      | Chromium    | mg/kg        | 4.84E+01   | 1.68E-04         | 8.23E-05      | 1.13E-08          |
| 194         | 19        | Surface      | Nickel      | mg/kg        | 5.84E+01   | 2.03E-04         | 7.95E-05      | 1.36E-08          |
| 194         | 20        | Surface      | Arsenic     | mg/kg        | 1.18E+01   | 4.12E-05         | 1.21E-05      | 2.77E-09          |
| 194         | 20        | Surface      | Barium      | mg/kg        | 3.26E+02   | 1.13E-03         | 5.55E-04      | 7.61E-08          |
| 194         | 20        | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 3.82E-06         | 2.62E-07      | 2.57E-10          |
| 194         | 20        | Surface      | Chromium    | mg/kg        | 5.24E+01   | 1.82E-04         | 8.91E-05      | 1.22E-08          |
| 194         | 20        | Surface      | Cobalt      | mg/kg        | 2.11E+01   | 7.33E-05         | 3.59E-05      | 4.93E-09          |
| 194         | 20        | Surface      | Manganese   | mg/kg        | 2.29E+03   | 7.97E-03         | 3.12E-03      | 5.36E-07          |
| 194         | 20        | Surface      | Mercury     | mg/kg        | 7.28E+00   | 2.53E-05         | 1.24E-05      | 5.07E-05          |
| 194         | 20        | Surface      | Nickel      | mg/kg        | 6.57E+01   | 2.28E-04         | 8.94E-05      | 1.53E-08          |
| 194         | 20        | Surface      | Silver      | mg/kg        | 1.22E+01   | 4.25E-05         | 1.66E-05      | 2.85E-09          |
| 194         | 20        | Surface      | Total PAH   | mg/kg        | 3.10E-02   | 1.08E-07         | 1.37E-07      | 5.35E-10          |
| 194         | 20        | Surface      | Vanadium    | mg/kg        | 3.81E+01   | 1.32E-04         | 3.37E-05      | 8.90E-09          |
| 194         | 21        | Surface      | Antimony    | mg/kg        | 9.30E-01   | 3.23E-06         | 1.58E-06      | 2.17E-10          |
| 194         | 21        | Surface      | Chromium    | mg/kg        | 5.51E+01   | 1.91E-04         | 9.37E-05      | 1.29E-08          |
| 194         | 21        | Surface      | Mercury     | mg/kg        | 6.62E+00   | 2.30E-05         | 1.13E-05      | 4.61E-05          |
| 194         | 21        | Surface      | Nickel      | mg/kg        | 7.01E+01   | 2.44E-04         | 9.55E-05      | 1.64E-08          |
| 194         | 21        | Surface      | Thallium    | mg/kg        | 6.40E-01   | 2.22E-06         | 1.09E-06      | 1.49E-10          |
| 194         | 22        | Surface      | Chromium    | mg/kg        | 4.90E+01   | 1.70E-04         | 8.33E-05      | 1.14E-08          |
| 194         | 22        | Surface      | Manganese   | mg/kg        | 8.19E+02   | 2.85E-03         | 1.12E-03      | 1.91E-07          |
| 194         | 22        | Surface      | PCB, Total  | mg/kg        | 1.09E+01   | 3.80E-05         | 5.20E-05      | 4.30E-06          |
| 194         | 23        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 4.01E-05         | 1.18E-05      | 2.70E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 23        | Surface      | Chromium    | mg/kg        | 6.60E+01   | 2.29E-04         | 1.12E-04      | 1.54E-08          |
| 194         | 23        | Surface      | Iron        | mg/kg        | 1.83E+04   | 6.35E-02         | 3.11E-02      | 4.27E-06          |
| 194         | 23        | Surface      | Nickel      | mg/kg        | 8.77E+01   | 3.05E-04         | 1.19E-04      | 2.05E-08          |
| 194         | 23        | Surface      | Silver      | mg/kg        | 1.15E+01   | 3.99E-05         | 1.56E-05      | 2.68E-09          |
| 194         | 24        | Surface      | Chromium    | mg/kg        | 5.02E+01   | 1.75E-04         | 8.54E-05      | 1.17E-08          |
| 194         | 24        | Surface      | Nickel      | mg/kg        | 7.08E+01   | 2.46E-04         | 9.63E-05      | 1.65E-08          |
| 194         | 24        | Surface      | Total PAH   | mg/kg        | 2.28E-02   | 7.92E-08         | 1.01E-07      | 3.94E-10          |
| 194         | 25        | Surface      | Barium      | mg/kg        | 3.00E+02   | 1.04E-03         | 5.10E-04      | 7.01E-08          |
| 194         | 25        | Surface      | Chromium    | mg/kg        | 6.13E+01   | 2.13E-04         | 1.04E-04      | 1.43E-08          |
| 194         | 25        | Surface      | Manganese   | mg/kg        | 9.96E+02   | 3.46E-03         | 1.36E-03      | 2.33E-07          |
| 194         | 25        | Surface      | Nickel      | mg/kg        | 6.33E+01   | 2.20E-04         | 8.62E-05      | 1.48E-08          |
| 194         | 25        | Surface      | Total PAH   | mg/kg        | 2.06E-02   | 7.16E-08         | 9.11E-08      | 3.56E-10          |
| 194         | 26        | Surface      | Beryllium   | mg/kg        | 7.00E-01   | 2.43E-06         | 1.67E-07      | 1.63E-10          |
| 194         | 26        | Surface      | Chromium    | mg/kg        | 4.18E+01   | 1.45E-04         | 7.12E-05      | 9.77E-09          |
| 194         | 26        | Surface      | Silver      | mg/kg        | 1.03E+01   | 3.57E-05         | 1.40E-05      | 2.40E-09          |
| 194         | 26        | Surface      | Thallium    | mg/kg        | 3.90E-01   | 1.36E-06         | 6.64E-07      | 9.11E-11          |
| 194         | 27        | Surface      | Chromium    | mg/kg        | 5.22E+01   | 1.81E-04         | 8.88E-05      | 1.22E-08          |
| 194         | 27        | Surface      | Nickel      | mg/kg        | 6.55E+01   | 2.28E-04         | 8.92E-05      | 1.53E-08          |
| 194         | 27        | Surface      | Silver      | mg/kg        | 1.01E+01   | 3.52E-05         | 1.38E-05      | 2.36E-09          |
| 194         | 28        | Surface      | Arsenic     | mg/kg        | 1.20E+01   | 4.18E-05         | 1.23E-05      | 2.81E-09          |
| 194         | 28        | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 2.47E-06         | 1.69E-07      | 1.66E-10          |
| 194         | 28        | Surface      | Chromium    | mg/kg        | 6.07E+01   | 2.11E-04         | 1.03E-04      | 1.42E-08          |
| 194         | 28        | Surface      | Manganese   | mg/kg        | 1.14E+03   | 3.96E-03         | 1.55E-03      | 2.66E-07          |
| 194         | 28        | Surface      | Nickel      | mg/kg        | 6.95E+01   | 2.41E-04         | 9.45E-05      | 1.62E-08          |
| 194         | 28        | Surface      | Silver      | mg/kg        | 1.08E+01   | 3.75E-05         | 1.47E-05      | 2.52E-09          |
| 194         | 28        | Surface      | Vanadium    | mg/kg        | 4.06E+01   | 1.41E-04         | 3.59E-05      | 9.48E-09          |
| 194         | 29        | Surface      | Antimony    | mg/kg        | 7.10E-01   | 2.47E-06         | 1.21E-06      | 1.66E-10          |
| 194         | 29        | Surface      | Chromium    | mg/kg        | 5.06E+01   | 1.76E-04         | 8.60E-05      | 1.18E-08          |
| 194         | 29        | Surface      | Nickel      | mg/kg        | 6.51E+01   | 2.26E-04         | 8.86E-05      | 1.52E-08          |
| 194         | 29        | Surface      | Silver      | mg/kg        | 9.77E+00   | 3.40E-05         | 1.33E-05      | 2.28E-09          |
| 194         | 30        | Surface      | Chromium    | mg/kg        | 5.66E+01   | 1.97E-04         | 9.63E-05      | 1.32E-08          |
| 194         | 30        | Surface      | Mercury     | mg/kg        | 8.80E+00   | 3.06E-05         | 1.50E-05      | 6.13E-05          |
| 194         | 30        | Surface      | Nickel      | mg/kg        | 6.99E+01   | 2.43E-04         | 9.51E-05      | 1.63E-08          |
| 194         | 30        | Surface      | Silver      | mg/kg        | 9.76E+00   | 3.39E-05         | 1.33E-05      | 2.28E-09          |
| 196         | 1         | Surface      | Antimony    | mg/kg        | 5.90E-01   | 2.05E-06         | 1.00E-06      | 1.38E-10          |
| 196         | 1         | Surface      | Chromium    | mg/kg        | 1.96E+01   | 6.81E-05         | 3.34E-05      | 4.58E-09          |
| 196         | 1         | Surface      | Nickel      | mg/kg        | 5.56E+02   | 1.93E-03         | 7.57E-04      | 1.30E-07          |
| 196         | 1         | Surface      | Uranium     | mg/kg        | 2.33E+01   | 8.10E-05         | 3.96E-05      | 5.44E-09          |
| 196         | 2         | Surface      | Barium      | mg/kg        | 2.02E+02   | 7.02E-04         | 3.44E-04      | 4.72E-08          |
| 196         | 2         | Surface      | Cadmium     | mg/kg        | 2.53E+00   | 8.79E-06         | 8.61E-08      | 5.91E-10          |
| 196         | 2         | Surface      | Chromium    | mg/kg        | 2.07E+01   | 7.19E-05         | 3.52E-05      | 4.83E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 196         | 2         | Surface      | Nickel      | mg/kg        | 7.36E+01   | 2.56E-04         | 1.00E-04      | 1.72E-08          |
| 196         | 2         | Surface      | PCB, Total  | mg/kg        | 1.51E+00   | 5.25E-06         | 7.19E-06      | 5.95E-07          |
| 196         | 2         | Surface      | Total PAH   | mg/kg        | 6.80E-01   | 2.36E-06         | 3.01E-06      | 1.17E-08          |
| 489         | 1         | Surface      | Chromium    | mg/kg        | 4.16E+01   | 1.45E-04         | 7.08E-05      | 9.72E-09          |
| 489         | 1         | Surface      | Nickel      | mg/kg        | 7.88E+01   | 2.74E-04         | 1.07E-04      | 1.84E-08          |
| 489         | 1         | Surface      | Total PAH   | mg/kg        | 8.22E-02   | 2.86E-07         | 3.64E-07      | 1.42E-09          |
| 531         | 1         | Surface      | Antimony    | mg/kg        | 1.00E+00   | 3.48E-06         | 1.70E-06      | 2.34E-10          |
| 531         | 1         | Surface      | Arsenic     | mg/kg        | 4.68E+01   | 1.63E-04         | 4.78E-05      | 1.09E-08          |
| 531         | 1         | Surface      | Cadmium     | mg/kg        | 3.10E+00   | 1.08E-05         | 1.05E-07      | 7.24E-10          |
| 531         | 1         | Surface      | Chromium    | mg/kg        | 5.05E+01   | 1.75E-04         | 8.58E-05      | 1.18E-08          |
| 531         | 1         | Surface      | Iron        | mg/kg        | 5.68E+04   | 1.98E-01         | 9.67E-02      | 1.33E-05          |
| 531         | 1         | Surface      | Nickel      | mg/kg        | 1.62E+02   | 5.64E-04         | 2.21E-04      | 3.79E-08          |
| 531         | 1         | Surface      | Total PAH   | mg/kg        | 5.34E-02   | 1.86E-07         | 2.36E-07      | 9.22E-10          |
| 531         | 1         | Surface      | Uranium     | mg/kg        | 2.41E+01   | 8.37E-05         | 4.10E-05      | 5.62E-09          |
| 531         | 1         | Surface      | Zinc        | mg/kg        | 2.45E+03   | 8.52E-03         | 4.17E-03      | 5.73E-07          |
| 200         | 1         | Surface      | Antimony    | mg/kg        | 5.60E-01   | 1.95E-06         | 9.53E-07      | 1.31E-10          |
| 200         | 1         | Surface      | Chromium    | mg/kg        | 5.75E+01   | 2.00E-04         | 9.79E-05      | 1.34E-08          |
| 200         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 2.33E-05         | 1.14E-05      | 4.67E-05          |
| 200         | 1         | Surface      | Nickel      | mg/kg        | 1.28E+02   | 4.45E-04         | 1.74E-04      | 2.99E-08          |
| 200         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E+00   | 9.04E-06         | 1.24E-05      | 1.02E-06          |
| 200         | 1         | Surface      | Total PAH   | mg/kg        | 2.84E-02   | 9.87E-08         | 1.26E-07      | 4.90E-10          |
| 200         | 1         | Surface      | Uranium     | mg/kg        | 2.73E+01   | 9.49E-05         | 4.65E-05      | 6.38E-09          |
| 212         | 1         | Surface      | Arsenic     | mg/kg        | 1.44E+01   | 5.01E-05         | 1.47E-05      | 3.37E-09          |
| 212         | 1         | Surface      | Beryllium   | mg/kg        | 8.10E-01   | 2.82E-06         | 1.93E-07      | 1.89E-10          |
| 212         | 1         | Surface      | Chromium    | mg/kg        | 3.58E+01   | 1.24E-04         | 6.09E-05      | 8.36E-09          |
| 212         | 1         | Surface      | Iron        | mg/kg        | 4.14E+04   | 1.44E-01         | 7.04E-02      | 9.67E-06          |
| 212         | 1         | Surface      | Nickel      | mg/kg        | 8.69E+01   | 3.02E-04         | 1.18E-04      | 2.03E-08          |
| 212         | 1         | Surface      | PCB, Total  | mg/kg        | 1.80E-01   | 6.26E-07         | 8.58E-07      | 7.09E-08          |
| 212         | 1         | Surface      | Uranium     | mg/kg        | 2.30E+01   | 7.99E-05         | 3.91E-05      | 5.37E-09          |
| 213         | 1         | Surface      | Antimony    | mg/kg        | 8.50E-01   | 2.95E-06         | 1.45E-06      | 1.99E-10          |
| 213         | 1         | Surface      | Chromium    | mg/kg        | 4.78E+01   | 1.66E-04         | 8.14E-05      | 1.12E-08          |
| 213         | 1         | Surface      | Nickel      | mg/kg        | 6.67E+01   | 2.32E-04         | 9.08E-05      | 1.56E-08          |
| 213         | 1         | Surface      | PCB, Total  | mg/kg        | 7.30E-02   | 2.54E-07         | 3.48E-07      | 2.87E-08          |
| 213         | 1         | Surface      | Silver      | mg/kg        | 1.32E+01   | 4.58E-05         | 1.79E-05      | 3.08E-09          |
| 213         | 1         | Surface      | Total PAH   | mg/kg        | 1.72E-01   | 5.97E-07         | 7.60E-07      | 2.97E-09          |
| 213         | 2         | Surface      | Chromium    | mg/kg        | 4.48E+01   | 1.56E-04         | 7.62E-05      | 1.05E-08          |
| 213         | 2         | Surface      | Nickel      | mg/kg        | 9.10E+01   | 3.16E-04         | 1.24E-04      | 2.13E-08          |
| 213         | 2         | Surface      | Silver      | mg/kg        | 1.13E+01   | 3.91E-05         | 1.53E-05      | 2.63E-09          |
| 214         | 1         | Surface      | Antimony    | mg/kg        | 5.70E-01   | 1.98E-06         | 9.70E-07      | 1.33E-10          |
| 215         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 2.36E-06         | 1.16E-06      | 1.59E-10          |
| 215         | 1         | Surface      | Chromium    | mg/kg        | 5.73E+01   | 1.99E-04         | 9.75E-05      | 1.34E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 215         | 1         | Surface      | Iron        | mg/kg        | 3.87E+04   | 1.34E-01         | 6.58E-02      | 9.04E-06          |
| 215         | 1         | Surface      | Nickel      | mg/kg        | 7.32E+01   | 2.54E-04         | 9.96E-05      | 1.71E-08          |
| 215         | 1         | Surface      | Total PAH   | mg/kg        | 8.09E-02   | 2.81E-07         | 3.58E-07      | 1.40E-09          |
| 216         | 1         | Surface      | Chromium    | mg/kg        | 2.38E+01   | 8.27E-05         | 4.05E-05      | 5.56E-09          |
| 216         | 1         | Surface      | Total PAH   | mg/kg        | 1.49E-01   | 5.19E-07         | 6.61E-07      | 2.58E-09          |
| 217         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 2.98E-04         | 1.46E-04      | 2.00E-08          |
| 217         | 1         | Surface      | Cobalt      | mg/kg        | 1.96E+01   | 6.80E-05         | 3.33E-05      | 4.57E-09          |
| 217         | 1         | Surface      | Manganese   | mg/kg        | 7.70E+02   | 2.68E-03         | 1.05E-03      | 1.80E-07          |
| 217         | 1         | Surface      | Nickel      | mg/kg        | 8.54E+01   | 2.97E-04         | 1.16E-04      | 2.00E-08          |
| 217         | 1         | Surface      | Silver      | mg/kg        | 1.35E+01   | 4.67E-05         | 1.83E-05      | 3.14E-09          |
| 217         | 2         | Surface      | Antimony    | mg/kg        | 1.70E+00   | 5.91E-06         | 2.89E-06      | 3.97E-10          |
| 217         | 2         | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 3.88E-05         | 1.14E-05      | 2.61E-09          |
| 217         | 2         | Surface      | Chromium    | mg/kg        | 1.02E+02   | 3.53E-04         | 1.73E-04      | 2.37E-08          |
| 217         | 2         | Surface      | Cobalt      | mg/kg        | 1.74E+01   | 6.05E-05         | 2.96E-05      | 4.06E-09          |
| 217         | 2         | Surface      | Iron        | mg/kg        | 3.09E+04   | 1.07E-01         | 5.26E-02      | 7.22E-06          |
| 217         | 2         | Surface      | Manganese   | mg/kg        | 8.44E+02   | 2.93E-03         | 1.15E-03      | 1.97E-07          |
| 217         | 2         | Surface      | Mercury     | mg/kg        | 8.59E+00   | 2.99E-05         | 1.46E-05      | 5.98E-05          |
| 217         | 2         | Surface      | Nickel      | mg/kg        | 9.74E+01   | 3.38E-04         | 1.33E-04      | 2.27E-08          |
| 217         | 2         | Surface      | Silver      | mg/kg        | 1.61E+01   | 5.59E-05         | 2.19E-05      | 3.76E-09          |
| 217         | 2         | Surface      | Total PAH   | mg/kg        | 5.05E-01   | 1.76E-06         | 2.23E-06      | 8.72E-09          |
| 221         | 1         | Surface      | Barium      | mg/kg        | 2.21E+02   | 7.68E-04         | 3.76E-04      | 5.16E-08          |
| 221         | 1         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 2.44E-04         | 1.19E-04      | 1.64E-08          |
| 221         | 1         | Surface      | Iron        | mg/kg        | 1.90E+04   | 6.60E-02         | 3.23E-02      | 4.43E-06          |
| 221         | 1         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 2.75E-04         | 1.08E-04      | 1.85E-08          |
| 221         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 1.74E-06         | 2.38E-06      | 1.97E-07          |
| 221         | 1         | Surface      | Total PAH   | mg/kg        | 1.02E+00   | 3.55E-06         | 4.52E-06      | 1.77E-08          |
| 221         | 1         | Surface      | Uranium     | mg/kg        | 1.64E+01   | 5.68E-05         | 2.78E-05      | 3.82E-09          |
| 222         | 1         | Surface      | Chromium    | mg/kg        | 4.73E+01   | 1.64E-04         | 8.05E-05      | 1.11E-08          |
| 222         | 1         | Surface      | Nickel      | mg/kg        | 9.19E+01   | 3.19E-04         | 1.25E-04      | 2.15E-08          |
| 222         | 1         | Surface      | PCB, Total  | mg/kg        | 1.40E+00   | 4.87E-06         | 6.67E-06      | 5.51E-07          |
| 222         | 1         | Surface      | Total PAH   | mg/kg        | 1.77E-01   | 6.16E-07         | 7.84E-07      | 3.06E-09          |
| 222         | 1         | Surface      | Uranium     | mg/kg        | 2.80E+01   | 9.72E-05         | 4.76E-05      | 6.54E-09          |
| 227         | 1         | Surface      | Beryllium   | mg/kg        | 5.52E-01   | 1.92E-06         | 1.31E-07      | 1.29E-10          |
| 227         | 1         | Surface      | Chromium    | mg/kg        | 4.71E+01   | 1.64E-04         | 8.02E-05      | 1.10E-08          |
| 227         | 1         | Surface      | Nickel      | mg/kg        | 2.03E+02   | 7.06E-04         | 2.76E-04      | 4.74E-08          |
| 227         | 1         | Surface      | PCB, Total  | mg/kg        | 4.14E+00   | 1.44E-05         | 1.97E-05      | 1.63E-06          |
| 227         | 1         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 1.17E-06         | 1.49E-06      | 5.83E-09          |
| 227         | 1         | Surface      | Uranium     | mg/kg        | 1.02E+02   | 3.53E-04         | 1.73E-04      | 2.37E-08          |
| 227         | 2         | Surface      | Beryllium   | mg/kg        | 5.32E-01   | 1.85E-06         | 1.27E-07      | 1.24E-10          |
| 227         | 2         | Surface      | Chromium    | mg/kg        | 5.63E+01   | 1.96E-04         | 9.58E-05      | 1.32E-08          |
| 227         | 2         | Surface      | Cobalt      | mg/kg        | 8.99E+00   | 3.12E-05         | 1.53E-05      | 2.10E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 227         | 2         | Surface      | Mercury     | mg/kg        | 8.41E+00   | 2.92E-05         | 1.43E-05      | 5.86E-05          |
| 227         | 2         | Surface      | Nickel      | mg/kg        | 1.25E+02   | 4.34E-04         | 1.70E-04      | 2.92E-08          |
| 227         | 2         | Surface      | PCB, Total  | mg/kg        | 5.82E+00   | 2.02E-05         | 2.77E-05      | 2.29E-06          |
| 227         | 2         | Surface      | Total PAH   | mg/kg        | 1.16E-01   | 4.02E-07         | 5.12E-07      | 2.00E-09          |
| 227         | 2         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 5.23E-05         | 2.56E-05      | 3.52E-09          |
| 228         | 1         | Surface      | Antimony    | mg/kg        | 6.30E-01   | 2.19E-06         | 1.07E-06      | 1.47E-10          |
| 228         | 1         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 1.36E-05         | 1.33E-07      | 9.11E-10          |
| 228         | 1         | Surface      | Chromium    | mg/kg        | 1.89E+02   | 6.57E-04         | 3.21E-04      | 4.41E-08          |
| 228         | 1         | Surface      | Mercury     | mg/kg        | 9.37E+00   | 3.26E-05         | 1.59E-05      | 6.52E-05          |
| 228         | 1         | Surface      | Nickel      | mg/kg        | 7.92E+01   | 2.75E-04         | 1.08E-04      | 1.85E-08          |
| 228         | 1         | Surface      | Silver      | mg/kg        | 1.16E+01   | 4.04E-05         | 1.58E-05      | 2.72E-09          |
| 228         | 1         | Surface      | Total PAH   | mg/kg        | 6.69E-02   | 2.32E-07         | 2.96E-07      | 1.15E-09          |
| 228         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 5.26E-05         | 2.57E-05      | 3.53E-09          |
| 76          | 1         | Surface      | Barium      | mg/kg        | 2.69E+02   | 9.35E-04         | 4.58E-04      | 6.28E-08          |
| 76          | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 9.04E-07         | 1.24E-06      | 1.02E-07          |
| 76          | 1         | Surface      | Total PAH   | mg/kg        | 1.76E+00   | 6.11E-06         | 7.78E-06      | 3.04E-08          |
| 165         | 1         | Surface      | Antimony    | mg/kg        | 2.20E+00   | 7.65E-06         | 3.74E-06      | 5.14E-10          |
| 165         | 1         | Surface      | Arsenic     | mg/kg        | 6.35E+01   | 2.21E-04         | 6.48E-05      | 1.48E-08          |
| 165         | 1         | Surface      | Barium      | mg/kg        | 5.84E+02   | 2.03E-03         | 9.94E-04      | 1.36E-07          |
| 165         | 1         | Surface      | Beryllium   | mg/kg        | 6.82E-01   | 2.37E-06         | 1.62E-07      | 1.59E-10          |
| 165         | 1         | Surface      | Chromium    | mg/kg        | 3.74E+01   | 1.30E-04         | 6.36E-05      | 8.73E-09          |
| 165         | 1         | Surface      | Mercury     | mg/kg        | 3.78E-01   | 1.31E-06         | 6.43E-07      | 2.63E-06          |
| 165         | 1         | Surface      | Naphthalene | mg/kg        | 1.61E+00   | 5.60E-06         | 1.37E-05      | 1.25E-05          |
| 165         | 1         | Surface      | Nickel      | mg/kg        | 3.47E+01   | 1.21E-04         | 4.72E-05      | 8.10E-09          |
| 165         | 1         | Surface      | PCB, Total  | mg/kg        | 8.27E+00   | 2.87E-05         | 3.94E-05      | 3.26E-06          |
| 165         | 1         | Surface      | Silver      | mg/kg        | 3.09E+01   | 1.07E-04         | 4.21E-05      | 7.22E-09          |
| 165         | 1         | Surface      | Total PAH   | mg/kg        | 1.87E+00   | 6.49E-06         | 8.27E-06      | 3.23E-08          |
| 165         | 1         | Surface      | Uranium     | mg/kg        | 1.08E+02   | 3.74E-04         | 1.83E-04      | 2.51E-08          |
| 158         | 1         | Surface      | Antimony    | mg/kg        | 5.23E-01   | 1.82E-06         | 8.90E-07      | 1.22E-10          |
| 158         | 1         | Surface      | Arsenic     | mg/kg        | 1.01E+01   | 3.52E-05         | 1.03E-05      | 2.36E-09          |
| 158         | 1         | Surface      | Barium      | mg/kg        | 2.19E+02   | 7.60E-04         | 3.72E-04      | 5.11E-08          |
| 158         | 1         | Surface      | Chromium    | mg/kg        | 6.07E+01   | 2.11E-04         | 1.03E-04      | 1.42E-08          |
| 158         | 1         | Surface      | Cobalt      | mg/kg        | 1.62E+01   | 5.64E-05         | 2.76E-05      | 3.79E-09          |
| 158         | 1         | Surface      | Manganese   | mg/kg        | 9.91E+02   | 3.44E-03         | 1.35E-03      | 2.31E-07          |
| 158         | 1         | Surface      | Mercury     | mg/kg        | 1.05E+01   | 3.64E-05         | 1.78E-05      | 7.28E-05          |
| 158         | 1         | Surface      | Nickel      | mg/kg        | 7.28E+01   | 2.53E-04         | 9.91E-05      | 1.70E-08          |
| 158         | 1         | Surface      | Thallium    | mg/kg        | 3.12E-01   | 1.08E-06         | 5.31E-07      | 7.29E-11          |
| 158         | 1         | Surface      | Total PAH   | mg/kg        | 3.69E-01   | 1.28E-06         | 1.63E-06      | 6.37E-09          |
| 158         | 1         | Surface      | Uranium     | mg/kg        | 2.03E+01   | 7.06E-05         | 3.45E-05      | 4.74E-09          |
| 169         | 1         | Surface      | Aluminum    | mg/kg        | 1.42E+04   | 4.94E-02         | 2.42E-02      | 3.32E-06          |
| 169         | 1         | Surface      | Antimony    | mg/kg        | 1.30E+00   | 4.52E-06         | 2.21E-06      | 3.04E-10          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 169         | 1         | Surface      | Arsenic     | mg/kg        | 2.03E+01   | 7.06E-05         | 2.07E-05      | 4.74E-09          |
| 169         | 1         | Surface      | Beryllium   | mg/kg        | 8.00E-01   | 2.78E-06         | 1.91E-07      | 1.87E-10          |
| 169         | 1         | Surface      | Chromium    | mg/kg        | 2.15E+02   | 7.47E-04         | 3.66E-04      | 5.02E-08          |
| 169         | 1         | Surface      | Copper      | mg/kg        | 3.74E+02   | 1.30E-03         | 6.37E-04      | 8.74E-08          |
| 169         | 1         | Surface      | Iron        | mg/kg        | 4.16E+04   | 1.44E-01         | 7.07E-02      | 9.71E-06          |
| 169         | 1         | Surface      | Mercury     | mg/kg        | 7.87E+00   | 2.74E-05         | 1.34E-05      | 5.48E-05          |
| 169         | 1         | Surface      | Nickel      | mg/kg        | 5.49E+02   | 1.91E-03         | 7.47E-04      | 1.28E-07          |
| 169         | 1         | Surface      | PCB, Total  | mg/kg        | 1.00E+01   | 3.48E-05         | 4.76E-05      | 3.94E-06          |
| 169         | 1         | Surface      | Thallium    | mg/kg        | 4.60E-01   | 1.60E-06         | 7.83E-07      | 1.07E-10          |
| 169         | 1         | Surface      | Total PAH   | mg/kg        | 4.59E+00   | 1.59E-05         | 2.03E-05      | 7.92E-08          |
| 169         | 1         | Surface      | Uranium     | mg/kg        | 5.03E+01   | 1.75E-04         | 8.56E-05      | 1.18E-08          |
| 19          | 1         | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 3.82E-06         | 2.62E-07      | 2.57E-10          |
| 19          | 1         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 4.17E-06         | 4.08E-08      | 2.80E-10          |
| 19          | 1         | Surface      | Thallium    | mg/kg        | 9.80E-01   | 3.41E-06         | 1.67E-06      | 2.29E-10          |
| 19          | 1         | Surface      | Total PAH   | mg/kg        | 5.23E+00   | 1.82E-05         | 2.31E-05      | 9.03E-08          |
| 138         | 1         | Surface      | Antimony    | mg/kg        | 5.39E+00   | 1.87E-05         | 9.18E-06      | 1.26E-09          |
| 138         | 1         | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 3.69E-05         | 1.08E-05      | 2.48E-09          |
| 138         | 1         | Surface      | Cadmium     | mg/kg        | 5.42E+00   | 1.88E-05         | 1.84E-07      | 1.27E-09          |
| 138         | 1         | Surface      | Chromium    | mg/kg        | 5.39E+01   | 1.87E-04         | 9.16E-05      | 1.26E-08          |
| 138         | 1         | Surface      | Mercury     | mg/kg        | 1.30E+01   | 4.51E-05         | 2.21E-05      | 9.04E-05          |
| 138         | 1         | Surface      | Nickel      | mg/kg        | 7.04E+01   | 2.45E-04         | 9.58E-05      | 1.64E-08          |
| 138         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 1.74E-06         | 2.38E-06      | 1.97E-07          |
| 138         | 1         | Surface      | Silver      | mg/kg        | 1.01E+01   | 3.51E-05         | 1.37E-05      | 2.36E-09          |
| 138         | 1         | Surface      | Total PAH   | mg/kg        | 9.74E-02   | 3.39E-07         | 4.31E-07      | 1.68E-09          |
| 138         | 2         | Surface      | Nickel      | mg/kg        | 7.99E+01   | 2.78E-04         | 1.09E-04      | 1.87E-08          |
| 138         | 2         | Surface      | PCB, Total  | mg/kg        | 9.20E-02   | 3.20E-07         | 4.38E-07      | 3.62E-08          |
| 138         | 2         | Surface      | Silver      | mg/kg        | 1.04E+01   | 3.63E-05         | 1.42E-05      | 2.44E-09          |
| 138         | 2         | Surface      | Total PAH   | mg/kg        | 3.84E-02   | 1.33E-07         | 1.70E-07      | 6.63E-10          |
| 180         | 1         | Surface      | Antimony    | mg/kg        | 5.80E-01   | 2.02E-06         | 9.87E-07      | 1.35E-10          |
| 180         | 1         | Surface      | Arsenic     | mg/kg        | 7.48E+01   | 2.60E-04         | 7.64E-05      | 1.75E-08          |
| 180         | 1         | Surface      | Chromium    | mg/kg        | 5.54E+01   | 1.93E-04         | 9.43E-05      | 1.29E-08          |
| 180         | 1         | Surface      | Mercury     | mg/kg        | 8.28E+00   | 2.88E-05         | 1.41E-05      | 5.76E-05          |
| 180         | 1         | Surface      | Nickel      | mg/kg        | 8.77E+01   | 3.05E-04         | 1.19E-04      | 2.05E-08          |
| 180         | 2         | Surface      | Antimony    | mg/kg        | 4.58E-01   | 1.59E-06         | 7.79E-07      | 1.07E-10          |
| 180         | 2         | Surface      | Arsenic     | mg/kg        | 1.27E+01   | 4.40E-05         | 1.29E-05      | 2.95E-09          |
| 180         | 2         | Surface      | Chromium    | mg/kg        | 4.46E+01   | 1.55E-04         | 7.59E-05      | 1.04E-08          |
| 180         | 2         | Surface      | Nickel      | mg/kg        | 8.42E+01   | 2.93E-04         | 1.15E-04      | 1.97E-08          |
| 180         | 2         | Surface      | Total PAH   | mg/kg        | 9.19E-02   | 3.19E-07         | 4.06E-07      | 1.59E-09          |
| 180         | 3         | Surface      | Arsenic     | mg/kg        | 1.34E+01   | 4.64E-05         | 1.36E-05      | 3.12E-09          |
| 180         | 3         | Surface      | Chromium    | mg/kg        | 4.69E+01   | 1.63E-04         | 7.99E-05      | 1.10E-08          |
| 180         | 3         | Surface      | Nickel      | mg/kg        | 6.77E+01   | 2.35E-04         | 9.22E-05      | 1.58E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 180         | 3         | Surface      | Silver      | mg/kg        | 1.14E+01   | 3.96E-05         | 1.55E-05      | 2.66E-09          |
| 180         | 4         | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 4.01E-05         | 1.18E-05      | 2.69E-09          |
| 180         | 4         | Surface      | Barium      | mg/kg        | 2.13E+02   | 7.40E-04         | 3.62E-04      | 4.98E-08          |
| 180         | 4         | Surface      | Beryllium   | mg/kg        | 1.60E+00   | 5.56E-06         | 3.81E-07      | 3.74E-10          |
| 180         | 4         | Surface      | Chromium    | mg/kg        | 6.00E+01   | 2.09E-04         | 1.02E-04      | 1.40E-08          |
| 180         | 4         | Surface      | Iron        | mg/kg        | 1.54E+04   | 5.34E-02         | 2.62E-02      | 3.59E-06          |
| 180         | 4         | Surface      | Manganese   | mg/kg        | 7.09E+02   | 2.46E-03         | 9.65E-04      | 1.66E-07          |
| 180         | 4         | Surface      | Nickel      | mg/kg        | 6.46E+01   | 2.25E-04         | 8.80E-05      | 1.51E-08          |
| 180         | 4         | Surface      | Silver      | mg/kg        | 9.68E+00   | 3.36E-05         | 1.32E-05      | 2.26E-09          |
| 180         | 4         | Surface      | Total PAH   | mg/kg        | 2.15E-02   | 7.47E-08         | 9.51E-08      | 3.71E-10          |
| 180         | 4         | Surface      | Vanadium    | mg/kg        | 4.85E+01   | 1.69E-04         | 4.29E-05      | 1.13E-08          |
| 181         | 1         | Surface      | Chromium    | mg/kg        | 2.29E+01   | 7.94E-05         | 3.89E-05      | 5.34E-09          |
| 181         | 1         | Surface      | Thallium    | mg/kg        | 3.50E+00   | 1.22E-05         | 5.96E-06      | 8.17E-10          |
| 181         | 1         | Surface      | Total PAH   | mg/kg        | 3.43E-02   | 1.19E-07         | 1.52E-07      | 5.92E-10          |
| 195         | 1         | Surface      | Chromium    | mg/kg        | 6.33E+01   | 2.20E-04         | 1.08E-04      | 1.48E-08          |
| 195         | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 2.44E-04         | 9.56E-05      | 1.64E-08          |
| 195         | 1         | Surface      | Silver      | mg/kg        | 9.37E+00   | 3.26E-05         | 1.28E-05      | 2.19E-09          |
| 195         | 2         | Surface      | Chromium    | mg/kg        | 4.52E+01   | 1.57E-04         | 7.69E-05      | 1.06E-08          |
| 195         | 2         | Surface      | Silver      | mg/kg        | 9.48E+00   | 3.29E-05         | 1.29E-05      | 2.21E-09          |
| 195         | 2         | Surface      | Total PAH   | mg/kg        | 2.68E-02   | 9.31E-08         | 1.19E-07      | 4.63E-10          |
| 195         | 3         | Surface      | Chromium    | mg/kg        | 5.03E+01   | 1.75E-04         | 8.56E-05      | 1.17E-08          |
| 195         | 3         | Surface      | Nickel      | mg/kg        | 5.22E+01   | 1.81E-04         | 7.10E-05      | 1.22E-08          |
| 195         | 3         | Surface      | Total PAH   | mg/kg        | 4.06E-02   | 1.41E-07         | 1.80E-07      | 7.01E-10          |
| 195         | 4         | Surface      | Chromium    | mg/kg        | 5.29E+01   | 1.84E-04         | 9.00E-05      | 1.24E-08          |
| 195         | 4         | Surface      | Nickel      | mg/kg        | 6.23E+01   | 2.16E-04         | 8.48E-05      | 1.45E-08          |
| 195         | 5         | Surface      | Chromium    | mg/kg        | 5.74E+01   | 2.00E-04         | 9.77E-05      | 1.34E-08          |
| 195         | 5         | Surface      | Nickel      | mg/kg        | 8.11E+01   | 2.82E-04         | 1.10E-04      | 1.89E-08          |
| 195         | 5         | Surface      | Total PAH   | mg/kg        | 2.40E-02   | 8.34E-08         | 1.06E-07      | 4.14E-10          |
| 195         | 6         | Surface      | Chromium    | mg/kg        | 4.45E+01   | 1.55E-04         | 7.58E-05      | 1.04E-08          |
| 195         | 6         | Surface      | Nickel      | mg/kg        | 8.71E+01   | 3.03E-04         | 1.19E-04      | 2.03E-08          |
| 195         | 6         | Surface      | Total PAH   | mg/kg        | 2.48E-01   | 8.61E-07         | 1.10E-06      | 4.28E-09          |
| 195         | 7         | Surface      | Chromium    | mg/kg        | 4.93E+01   | 1.71E-04         | 8.38E-05      | 1.15E-08          |
| 195         | 7         | Surface      | Silver      | mg/kg        | 8.06E+00   | 2.80E-05         | 1.10E-05      | 1.88E-09          |
| 195         | 8         | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 4.02E-05         | 1.18E-05      | 2.70E-09          |
| 195         | 8         | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 2.57E-06         | 1.76E-07      | 1.73E-10          |
| 195         | 8         | Surface      | Chromium    | mg/kg        | 6.79E+01   | 2.36E-04         | 1.16E-04      | 1.59E-08          |
| 195         | 8         | Surface      | Cobalt      | mg/kg        | 1.82E+01   | 6.33E-05         | 3.10E-05      | 4.25E-09          |
| 195         | 8         | Surface      | Nickel      | mg/kg        | 7.01E+01   | 2.44E-04         | 9.54E-05      | 1.64E-08          |
| 195         | 8         | Surface      | Total PAH   | mg/kg        | 2.16E-01   | 7.49E-07         | 9.54E-07      | 3.72E-09          |
| 195         | 8         | Surface      | Vanadium    | mg/kg        | 4.04E+01   | 1.40E-04         | 3.57E-05      | 9.44E-09          |
| 195         | 9         | Surface      | Chromium    | mg/kg        | 6.08E+01   | 2.11E-04         | 1.03E-04      | 1.42E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 195         | 9         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 2.76E-04         | 1.08E-04      | 1.85E-08          |
| 195         | 10        | Surface      | Chromium    | mg/kg        | 4.51E+01   | 1.57E-04         | 7.67E-05      | 1.05E-08          |
| 195         | 10        | Surface      | Nickel      | mg/kg        | 7.40E+01   | 2.57E-04         | 1.01E-04      | 1.73E-08          |
| 195         | 10        | Surface      | Silver      | mg/kg        | 1.31E+01   | 4.56E-05         | 1.78E-05      | 3.06E-09          |
| 195         | 11        | Surface      | Aluminum    | mg/kg        | 2.81E+04   | 9.77E-02         | 4.78E-02      | 6.56E-06          |
| 195         | 11        | Surface      | Arsenic     | mg/kg        | 1.35E+01   | 4.68E-05         | 1.37E-05      | 3.14E-09          |
| 195         | 11        | Surface      | Barium      | mg/kg        | 4.53E+02   | 1.57E-03         | 7.71E-04      | 1.06E-07          |
| 195         | 11        | Surface      | Chromium    | mg/kg        | 5.05E+01   | 1.76E-04         | 8.59E-05      | 1.18E-08          |
| 195         | 11        | Surface      | Cobalt      | mg/kg        | 2.77E+01   | 9.63E-05         | 4.71E-05      | 6.47E-09          |
| 195         | 11        | Surface      | Iron        | mg/kg        | 1.97E+04   | 6.85E-02         | 3.35E-02      | 4.60E-06          |
| 195         | 11        | Surface      | Nickel      | mg/kg        | 6.77E+01   | 2.35E-04         | 9.21E-05      | 1.58E-08          |
| 195         | 11        | Surface      | Thallium    | mg/kg        | 6.60E-01   | 2.29E-06         | 1.12E-06      | 1.54E-10          |
| 195         | 11        | Surface      | Vanadium    | mg/kg        | 7.97E+01   | 2.77E-04         | 7.05E-05      | 1.86E-08          |
| 195         | 12        | Surface      | Beryllium   | mg/kg        | 7.50E-01   | 2.61E-06         | 1.79E-07      | 1.75E-10          |
| 195         | 12        | Surface      | Chromium    | mg/kg        | 7.04E+01   | 2.45E-04         | 1.20E-04      | 1.64E-08          |
| 195         | 12        | Surface      | Nickel      | mg/kg        | 6.78E+01   | 2.35E-04         | 9.22E-05      | 1.58E-08          |
| 195         | 13        | Surface      | Chromium    | mg/kg        | 6.55E+01   | 2.28E-04         | 1.11E-04      | 1.53E-08          |
| 195         | 13        | Surface      | Nickel      | mg/kg        | 6.91E+01   | 2.40E-04         | 9.40E-05      | 1.61E-08          |
| 195         | 14        | Surface      | Chromium    | mg/kg        | 5.94E+01   | 2.07E-04         | 1.01E-04      | 1.39E-08          |
| 195         | 14        | Surface      | Nickel      | mg/kg        | 7.04E+01   | 2.45E-04         | 9.58E-05      | 1.64E-08          |
| 195         | 15        | Surface      | Chromium    | mg/kg        | 4.82E+01   | 1.67E-04         | 8.20E-05      | 1.13E-08          |
| 195         | 16        | Surface      | Chromium    | mg/kg        | 4.45E+01   | 1.55E-04         | 7.57E-05      | 1.04E-08          |
| 195         | 16        | Surface      | Nickel      | mg/kg        | 8.16E+01   | 2.83E-04         | 1.11E-04      | 1.91E-08          |
| 195         | 17        | Surface      | Chromium    | mg/kg        | 8.22E+01   | 2.86E-04         | 1.40E-04      | 1.92E-08          |
| 195         | 17        | Surface      | Mercury     | mg/kg        | 4.17E-01   | 1.45E-06         | 7.10E-07      | 2.90E-06          |
| 195         | 17        | Surface      | Nickel      | mg/kg        | 5.93E+01   | 2.06E-04         | 8.08E-05      | 1.39E-08          |
| 195         | 17        | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 2.57E-06         | 3.53E-06      | 2.91E-07          |
| 195         | 17        | Surface      | Silver      | mg/kg        | 1.01E+01   | 3.52E-05         | 1.38E-05      | 2.37E-09          |
| 195         | 17        | Surface      | Thallium    | mg/kg        | 5.40E-01   | 1.88E-06         | 9.19E-07      | 1.26E-10          |
| 195         | 17        | Surface      | Total PAH   | mg/kg        | 3.16E-01   | 1.10E-06         | 1.40E-06      | 5.46E-09          |
| 492         | 1         | Surface      | Arsenic     | mg/kg        | 1.47E+01   | 5.11E-05         | 1.50E-05      | 3.43E-09          |
| 492         | 1         | Surface      | Beryllium   | mg/kg        | 1.04E+01   | 3.61E-05         | 2.48E-06      | 2.43E-09          |
| 492         | 1         | Surface      | Cadmium     | mg/kg        | 3.14E+00   | 1.09E-05         | 1.07E-07      | 7.33E-10          |
| 492         | 1         | Surface      | Chromium    | mg/kg        | 1.04E+03   | 3.61E-03         | 1.77E-03      | 2.43E-07          |
| 492         | 1         | Surface      | PCB, Total  | mg/kg        | 4.41E+01   | 1.53E-04         | 2.10E-04      | 1.74E-05          |
| 492         | 1         | Surface      | Uranium     | mg/kg        | 1.77E+03   | 6.15E-03         | 3.01E-03      | 4.13E-07          |
| 492         | 1         | Surface      | Vanadium    | mg/kg        | 4.32E+01   | 1.50E-04         | 3.82E-05      | 1.01E-08          |
| 493         | 1         | Surface      | Aluminum    | mg/kg        | 1.44E+04   | 5.00E-02         | 2.45E-02      | 3.36E-06          |
| 493         | 1         | Surface      | Barium      | mg/kg        | 4.04E+02   | 1.40E-03         | 6.87E-04      | 9.44E-08          |
| 493         | 1         | Surface      | Beryllium   | mg/kg        | 9.91E-01   | 3.44E-06         | 2.36E-07      | 2.31E-10          |
| 493         | 1         | Surface      | Chromium    | mg/kg        | 6.61E+01   | 2.30E-04         | 1.12E-04      | 1.54E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 493         | 1         | Surface      | Cobalt      | mg/kg        | 3.79E+01   | 1.32E-04         | 6.45E-05      | 8.85E-09          |
| 493         | 1         | Surface      | Manganese   | mg/kg        | 3.55E+03   | 1.23E-02         | 4.83E-03      | 8.29E-07          |
| 493         | 1         | Surface      | Mercury     | mg/kg        | 2.60E-01   | 9.04E-07         | 4.42E-07      | 1.81E-06          |
| 493         | 1         | Surface      | Nickel      | mg/kg        | 2.13E+02   | 7.40E-04         | 2.90E-04      | 4.98E-08          |
| 493         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 9.04E-07         | 1.24E-06      | 1.02E-07          |
| 493         | 1         | Surface      | Total PAH   | mg/kg        | 5.00E-01   | 1.74E-06         | 2.21E-06      | 8.64E-09          |
| 493         | 1         | Surface      | Vanadium    | mg/kg        | 4.05E+01   | 1.41E-04         | 3.58E-05      | 9.46E-09          |
| 517         | 1         | Surface      | Beryllium   | mg/kg        | 7.39E-01   | 2.57E-06         | 1.76E-07      | 1.73E-10          |
| 517         | 1         | Surface      | Chromium    | mg/kg        | 4.91E+01   | 1.71E-04         | 8.35E-05      | 1.15E-08          |
| 517         | 1         | Surface      | Nickel      | mg/kg        | 1.72E+02   | 5.98E-04         | 2.34E-04      | 4.02E-08          |
| 517         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 1.74E-06         | 2.38E-06      | 1.97E-07          |
| 541         | 1         | Surface      | Aluminum    | mg/kg        | 1.43E+04   | 4.97E-02         | 2.43E-02      | 3.34E-06          |
| 541         | 1         | Surface      | Barium      | mg/kg        | 1.28E+02   | 4.45E-04         | 2.18E-04      | 2.99E-08          |
| 541         | 1         | Surface      | Beryllium   | mg/kg        | 6.98E-01   | 2.43E-06         | 1.66E-07      | 1.63E-10          |
| 541         | 1         | Surface      | Cadmium     | mg/kg        | 1.68E+00   | 5.85E-06         | 5.72E-08      | 3.93E-10          |
| 541         | 1         | Surface      | Chromium    | mg/kg        | 8.24E+02   | 2.86E-03         | 1.40E-03      | 1.92E-07          |
| 541         | 1         | Surface      | Iron        | mg/kg        | 1.60E+04   | 5.55E-02         | 2.72E-02      | 3.73E-06          |
| 541         | 1         | Surface      | Mercury     | mg/kg        | 9.81E-02   | 3.41E-07         | 1.67E-07      | 6.83E-07          |
| 541         | 1         | Surface      | Naphthalene | mg/kg        | 6.55E-01   | 2.28E-06         | 5.57E-06      | 5.10E-06          |
| 541         | 1         | Surface      | Nickel      | mg/kg        | 1.52E+01   | 5.30E-05         | 2.07E-05      | 3.56E-09          |
| 541         | 1         | Surface      | PCB, Total  | mg/kg        | 6.06E+01   | 2.11E-04         | 2.89E-04      | 2.39E-05          |
| 541         | 1         | Surface      | Total PAH   | mg/kg        | 2.33E+00   | 8.09E-06         | 1.03E-05      | 4.02E-08          |
| 541         | 1         | Surface      | Uranium     | mg/kg        | 6.38E+03   | 2.22E-02         | 1.09E-02      | 1.49E-06          |
| 541         | 1         | Surface      | Vanadium    | mg/kg        | 3.04E+01   | 1.06E-04         | 2.69E-05      | 7.11E-09          |
| 561         | 1         | Surface      | Antimony    | mg/kg        | 9.36E-01   | 3.25E-06         | 1.59E-06      | 2.19E-10          |
| 561         | 1         | Surface      | Arsenic     | mg/kg        | 1.66E+01   | 5.75E-05         | 1.69E-05      | 3.87E-09          |
| 561         | 1         | Surface      | Barium      | mg/kg        | 1.40E+02   | 4.87E-04         | 2.39E-04      | 3.27E-08          |
| 561         | 1         | Surface      | Beryllium   | mg/kg        | 6.85E-01   | 2.38E-06         | 1.63E-07      | 1.60E-10          |
| 561         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 2.98E-04         | 1.46E-04      | 2.00E-08          |
| 561         | 1         | Surface      | Cobalt      | mg/kg        | 1.07E+01   | 3.72E-05         | 1.82E-05      | 2.50E-09          |
| 561         | 1         | Surface      | Iron        | mg/kg        | 2.05E+04   | 7.11E-02         | 3.48E-02      | 4.78E-06          |
| 561         | 1         | Surface      | Manganese   | mg/kg        | 1.61E+03   | 5.59E-03         | 2.19E-03      | 3.76E-07          |
| 561         | 1         | Surface      | PCB, Total  | mg/kg        | 1.04E+00   | 3.62E-06         | 4.96E-06      | 4.10E-07          |
| 561         | 1         | Surface      | Thallium    | mg/kg        | 3.33E-01   | 1.16E-06         | 5.67E-07      | 7.78E-11          |
| 561         | 1         | Surface      | Total PAH   | mg/kg        | 3.94E-01   | 1.37E-06         | 1.74E-06      | 6.80E-09          |
| 561         | 1         | Surface      | Uranium     | mg/kg        | 2.65E+02   | 9.20E-04         | 4.51E-04      | 6.18E-08          |
| 561         | 1         | Surface      | Vanadium    | mg/kg        | 3.76E+01   | 1.31E-04         | 3.33E-05      | 8.79E-09          |
| 561         | 2         | Surface      | Antimony    | mg/kg        | 5.33E+00   | 1.85E-05         | 9.08E-06      | 1.25E-09          |
| 561         | 2         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 4.52E-05         | 1.33E-05      | 3.04E-09          |
| 561         | 2         | Surface      | Beryllium   | mg/kg        | 6.34E-01   | 2.20E-06         | 1.51E-07      | 1.48E-10          |
| 561         | 2         | Surface      | Cadmium     | mg/kg        | 4.13E-01   | 1.44E-06         | 1.41E-08      | 9.65E-11          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 561         | 2         | Surface      | Chromium    | mg/kg        | 2.88E+02   | 1.00E-03         | 4.90E-04      | 6.73E-08          |
| 561         | 2         | Surface      | Cobalt      | mg/kg        | 1.14E+01   | 3.96E-05         | 1.94E-05      | 2.66E-09          |
| 561         | 2         | Surface      | Manganese   | mg/kg        | 1.12E+03   | 3.88E-03         | 1.52E-03      | 2.60E-07          |
| 561         | 2         | Surface      | PCB, Total  | mg/kg        | 1.64E+01   | 5.71E-05         | 7.82E-05      | 6.47E-06          |
| 561         | 2         | Surface      | Thallium    | mg/kg        | 4.09E-01   | 1.42E-06         | 6.96E-07      | 9.55E-11          |
| 561         | 2         | Surface      | Total PAH   | mg/kg        | 2.43E+00   | 8.45E-06         | 1.08E-05      | 4.20E-08          |
| 561         | 2         | Surface      | Uranium     | mg/kg        | 1.38E+03   | 4.81E-03         | 2.35E-03      | 3.23E-07          |
| 561         | 2         | Surface      | Vanadium    | mg/kg        | 3.46E+01   | 1.20E-04         | 3.06E-05      | 8.07E-09          |
| 562         | 1         | Surface      | Uranium     | mg/kg        | 8.73E+01   | 3.03E-04         | 1.49E-04      | 2.04E-08          |
| 562         | 2         | Surface      | PCB, Total  | mg/kg        | 1.58E+00   | 5.49E-06         | 7.53E-06      | 6.22E-07          |
| 562         | 3         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 1.33E-04         | 6.49E-05      | 8.91E-09          |
| 562         | 3         | Surface      | PCB, Total  | mg/kg        | 2.40E-01   | 8.34E-07         | 1.14E-06      | 9.45E-08          |
| 562         | 3         | Surface      | Total PAH   | mg/kg        | 2.20E-01   | 7.65E-07         | 9.73E-07      | 3.80E-09          |
| 562         | 3         | Surface      | Uranium     | mg/kg        | 5.89E+01   | 2.05E-04         | 1.00E-04      | 1.38E-08          |
| 562         | 4         | Surface      | Chromium    | mg/kg        | 4.67E+01   | 1.62E-04         | 7.94E-05      | 1.09E-08          |
| 562         | 4         | Surface      | Uranium     | mg/kg        | 2.10E+01   | 7.30E-05         | 3.57E-05      | 4.90E-09          |
| 562         | 5         | Surface      | Chromium    | mg/kg        | 1.53E+02   | 5.32E-04         | 2.61E-04      | 3.58E-08          |
| 562         | 5         | Surface      | PCB, Total  | mg/kg        | 9.50E-01   | 3.30E-06         | 4.53E-06      | 3.74E-07          |
| 562         | 5         | Surface      | Total PAH   | mg/kg        | 7.05E-02   | 2.45E-07         | 3.12E-07      | 1.22E-09          |
| 562         | 5         | Surface      | Uranium     | mg/kg        | 2.08E+02   | 7.23E-04         | 3.54E-04      | 4.86E-08          |
| 563         | 1         | Surface      | Cadmium     | mg/kg        | 8.96E-01   | 3.11E-06         | 3.05E-08      | 2.09E-10          |
| 563         | 1         | Surface      | Chromium    | mg/kg        | 2.85E+02   | 9.91E-04         | 4.85E-04      | 6.66E-08          |
| 563         | 1         | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 2.57E-06         | 3.53E-06      | 2.91E-07          |
| 563         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 5.24E-05         | 2.57E-05      | 3.52E-09          |
| 564         | 1         | Surface      | Arsenic     | mg/kg        | 4.30E+01   | 1.49E-04         | 4.39E-05      | 1.00E-08          |
| 564         | 1         | Surface      | Beryllium   | mg/kg        | 2.12E+00   | 7.37E-06         | 5.05E-07      | 4.95E-10          |
| 564         | 1         | Surface      | Cadmium     | mg/kg        | 1.96E+00   | 6.81E-06         | 6.67E-08      | 4.58E-10          |
| 564         | 1         | Surface      | Chromium    | mg/kg        | 7.49E+01   | 2.60E-04         | 1.27E-04      | 1.75E-08          |
| 564         | 1         | Surface      | Iron        | mg/kg        | 3.66E+04   | 1.27E-01         | 6.23E-02      | 8.55E-06          |
| 564         | 1         | Surface      | Mercury     | mg/kg        | 2.30E-01   | 7.99E-07         | 3.91E-07      | 1.60E-06          |
| 564         | 1         | Surface      | Nickel      | mg/kg        | 2.24E+01   | 7.79E-05         | 3.05E-05      | 5.23E-09          |
| 564         | 1         | Surface      | PCB, Total  | mg/kg        | 1.93E+00   | 6.71E-06         | 9.20E-06      | 7.60E-07          |
| 564         | 1         | Surface      | Thallium    | mg/kg        | 2.36E+00   | 8.20E-06         | 4.02E-06      | 5.51E-10          |
| 564         | 1         | Surface      | Uranium     | mg/kg        | 5.83E+01   | 2.03E-04         | 9.92E-05      | 1.36E-08          |
| 564         | 1         | Surface      | Vanadium    | mg/kg        | 8.06E+01   | 2.80E-04         | 7.13E-05      | 1.88E-08          |
| 567         | 3         | Surface      | Chromium    | mg/kg        | 3.79E+01   | 1.32E-04         | 6.45E-05      | 8.85E-09          |
| 567         | 4         | Surface      | Aluminum    | mg/kg        | 1.25E+04   | 4.35E-02         | 2.13E-02      | 2.92E-06          |
| 567         | 4         | Surface      | Chromium    | mg/kg        | 1.63E+01   | 5.67E-05         | 2.77E-05      | 3.81E-09          |
| 14          | 1         | Surface      | Arsenic     | mg/kg        | 1.10E+01   | 3.82E-05         | 1.12E-05      | 2.56E-09          |
| 14          | 1         | Surface      | Chromium    | mg/kg        | 6.36E+01   | 2.21E-04         | 1.08E-04      | 1.49E-08          |
| 14          | 1         | Surface      | Iron        | mg/kg        | 1.89E+04   | 6.56E-02         | 3.21E-02      | 4.41E-06          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 1         | Surface      | Nickel      | mg/kg        | 1.40E+02   | 4.86E-04         | 1.90E-04      | 3.26E-08          |
| 14          | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 1.74E-06         | 2.38E-06      | 1.97E-07          |
| 14          | 1         | Surface      | Silver      | mg/kg        | 1.67E+01   | 5.80E-05         | 2.27E-05      | 3.90E-09          |
| 14          | 1         | Surface      | Uranium     | mg/kg        | 7.21E+01   | 2.51E-04         | 1.23E-04      | 1.68E-08          |
| 14          | 2         | Surface      | Antimony    | mg/kg        | 3.70E+00   | 1.29E-05         | 6.30E-06      | 8.64E-10          |
| 14          | 2         | Surface      | Arsenic     | mg/kg        | 1.45E+01   | 5.05E-05         | 1.48E-05      | 3.39E-09          |
| 14          | 2         | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 2.47E-06         | 1.69E-07      | 1.66E-10          |
| 14          | 2         | Surface      | Chromium    | mg/kg        | 6.65E+01   | 2.31E-04         | 1.13E-04      | 1.55E-08          |
| 14          | 2         | Surface      | Copper      | mg/kg        | 1.76E+02   | 6.13E-04         | 3.00E-04      | 4.12E-08          |
| 14          | 2         | Surface      | Iron        | mg/kg        | 3.72E+04   | 1.29E-01         | 6.33E-02      | 8.69E-06          |
| 14          | 2         | Surface      | Manganese   | mg/kg        | 1.44E+03   | 5.01E-03         | 1.96E-03      | 3.37E-07          |
| 14          | 2         | Surface      | Mercury     | mg/kg        | 2.67E-01   | 9.28E-07         | 4.54E-07      | 1.86E-06          |
| 14          | 2         | Surface      | Nickel      | mg/kg        | 6.78E+02   | 2.36E-03         | 9.23E-04      | 1.58E-07          |
| 14          | 2         | Surface      | PCB, Total  | mg/kg        | 3.90E-01   | 1.36E-06         | 1.86E-06      | 1.54E-07          |
| 14          | 2         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 1.18E-06         | 1.50E-06      | 5.84E-09          |
| 14          | 2         | Surface      | Uranium     | mg/kg        | 2.93E+02   | 1.02E-03         | 4.99E-04      | 6.85E-08          |
| 14          | 3         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 4.51E-05         | 1.32E-05      | 3.03E-09          |
| 14          | 3         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 2.44E-04         | 1.19E-04      | 1.64E-08          |
| 14          | 3         | Surface      | Copper      | mg/kg        | 1.29E+02   | 4.49E-04         | 2.20E-04      | 3.02E-08          |
| 14          | 3         | Surface      | Iron        | mg/kg        | 3.48E+04   | 1.21E-01         | 5.93E-02      | 8.13E-06          |
| 14          | 3         | Surface      | Manganese   | mg/kg        | 1.06E+03   | 3.67E-03         | 1.44E-03      | 2.47E-07          |
| 14          | 3         | Surface      | Mercury     | mg/kg        | 7.48E+00   | 2.60E-05         | 1.27E-05      | 5.21E-05          |
| 14          | 3         | Surface      | Molybdenum  | mg/kg        | 2.21E+01   | 7.67E-05         | 3.76E-05      | 5.15E-09          |
| 14          | 3         | Surface      | Nickel      | mg/kg        | 5.76E+02   | 2.00E-03         | 7.85E-04      | 1.35E-07          |
| 14          | 3         | Surface      | PCB, Total  | mg/kg        | 8.65E+00   | 3.00E-05         | 4.12E-05      | 3.40E-06          |
| 14          | 3         | Surface      | Uranium     | mg/kg        | 2.18E+02   | 7.57E-04         | 3.70E-04      | 5.08E-08          |
| 14          | 4         | Surface      | Antimony    | mg/kg        | 4.30E+00   | 1.49E-05         | 7.32E-06      | 1.00E-09          |
| 14          | 4         | Surface      | Arsenic     | mg/kg        | 1.33E+01   | 4.62E-05         | 1.36E-05      | 3.10E-09          |
| 14          | 4         | Surface      | Chromium    | mg/kg        | 7.20E+01   | 2.50E-04         | 1.23E-04      | 1.68E-08          |
| 14          | 4         | Surface      | Copper      | mg/kg        | 3.54E+02   | 1.23E-03         | 6.02E-04      | 8.26E-08          |
| 14          | 4         | Surface      | Iron        | mg/kg        | 3.88E+04   | 1.35E-01         | 6.61E-02      | 9.07E-06          |
| 14          | 4         | Surface      | Mercury     | mg/kg        | 4.87E-01   | 1.69E-06         | 8.29E-07      | 3.39E-06          |
| 14          | 4         | Surface      | Nickel      | mg/kg        | 7.31E+02   | 2.54E-03         | 9.94E-04      | 1.71E-07          |
| 14          | 4         | Surface      | PCB, Total  | mg/kg        | 6.61E+00   | 2.30E-05         | 3.15E-05      | 2.60E-06          |
| 14          | 4         | Surface      | Silver      | mg/kg        | 1.17E+01   | 4.07E-05         | 1.59E-05      | 2.73E-09          |
| 14          | 4         | Surface      | Total PAH   | mg/kg        | 2.51E-01   | 8.72E-07         | 1.11E-06      | 4.33E-09          |
| 14          | 4         | Surface      | Uranium     | mg/kg        | 3.72E+02   | 1.29E-03         | 6.33E-04      | 8.68E-08          |
| 14          | 5         | Surface      | Antimony    | mg/kg        | 2.30E+00   | 7.99E-06         | 3.91E-06      | 5.37E-10          |
| 14          | 5         | Surface      | Arsenic     | mg/kg        | 1.31E+01   | 4.55E-05         | 1.34E-05      | 3.06E-09          |
| 14          | 5         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 1.36E-05         | 1.33E-07      | 9.11E-10          |
| 14          | 5         | Surface      | Chromium    | mg/kg        | 4.70E+01   | 1.63E-04         | 7.99E-05      | 1.10E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 5         | Surface      | Cobalt      | mg/kg        | 1.40E+01   | 4.87E-05         | 2.38E-05      | 3.27E-09          |
| 14          | 5         | Surface      | Copper      | mg/kg        | 1.34E+02   | 4.64E-04         | 2.27E-04      | 3.12E-08          |
| 14          | 5         | Surface      | Iron        | mg/kg        | 3.92E+04   | 1.36E-01         | 6.67E-02      | 9.16E-06          |
| 14          | 5         | Surface      | Manganese   | mg/kg        | 8.28E+02   | 2.88E-03         | 1.13E-03      | 1.93E-07          |
| 14          | 5         | Surface      | Mercury     | mg/kg        | 1.09E+01   | 3.80E-05         | 1.86E-05      | 7.62E-05          |
| 14          | 5         | Surface      | Nickel      | mg/kg        | 4.61E+02   | 1.60E-03         | 6.28E-04      | 1.08E-07          |
| 14          | 5         | Surface      | PCB, Total  | mg/kg        | 1.00E+00   | 3.48E-06         | 4.76E-06      | 3.94E-07          |
| 14          | 5         | Surface      | Silver      | mg/kg        | 1.29E+01   | 4.47E-05         | 1.75E-05      | 3.01E-09          |
| 14          | 5         | Surface      | Thallium    | mg/kg        | 4.10E-01   | 1.42E-06         | 6.98E-07      | 9.58E-11          |
| 14          | 5         | Surface      | Total PAH   | mg/kg        | 1.21E-01   | 4.20E-07         | 5.35E-07      | 2.09E-09          |
| 14          | 5         | Surface      | Uranium     | mg/kg        | 2.62E+02   | 9.11E-04         | 4.46E-04      | 6.12E-08          |
| 14          | 6         | Surface      | Antimony    | mg/kg        | 2.70E+00   | 9.38E-06         | 4.59E-06      | 6.31E-10          |
| 14          | 6         | Surface      | Cadmium     | mg/kg        | 8.40E-01   | 2.92E-06         | 2.86E-08      | 1.96E-10          |
| 14          | 6         | Surface      | Chromium    | mg/kg        | 4.46E+02   | 1.55E-03         | 7.59E-04      | 1.04E-07          |
| 14          | 6         | Surface      | Copper      | mg/kg        | 1.22E+02   | 4.25E-04         | 2.08E-04      | 2.86E-08          |
| 14          | 6         | Surface      | Mercury     | mg/kg        | 3.47E-01   | 1.21E-06         | 5.90E-07      | 2.42E-06          |
| 14          | 6         | Surface      | Nickel      | mg/kg        | 9.63E+02   | 3.35E-03         | 1.31E-03      | 2.25E-07          |
| 14          | 6         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 1.74E-05         | 2.38E-05      | 1.97E-06          |
| 14          | 6         | Surface      | Silver      | mg/kg        | 1.19E+01   | 4.13E-05         | 1.62E-05      | 2.77E-09          |
| 14          | 6         | Surface      | Uranium     | mg/kg        | 5.79E+02   | 2.01E-03         | 9.85E-04      | 1.35E-07          |
| 14          | 7         | Surface      | Antimony    | mg/kg        | 7.50E-01   | 2.61E-06         | 1.28E-06      | 1.75E-10          |
| 14          | 7         | Surface      | Arsenic     | mg/kg        | 1.13E+01   | 3.93E-05         | 1.15E-05      | 2.64E-09          |
| 14          | 7         | Surface      | Cadmium     | mg/kg        | 2.70E+00   | 9.38E-06         | 9.19E-08      | 6.31E-10          |
| 14          | 7         | Surface      | Chromium    | mg/kg        | 6.46E+01   | 2.24E-04         | 1.10E-04      | 1.51E-08          |
| 14          | 7         | Surface      | Mercury     | mg/kg        | 7.82E+00   | 2.72E-05         | 1.33E-05      | 5.44E-05          |
| 14          | 7         | Surface      | Nickel      | mg/kg        | 1.22E+03   | 4.25E-03         | 1.66E-03      | 2.86E-07          |
| 14          | 7         | Surface      | PCB, Total  | mg/kg        | 7.60E+00   | 2.64E-05         | 3.62E-05      | 2.99E-06          |
| 14          | 7         | Surface      | Total PAH   | mg/kg        | 6.31E-02   | 2.19E-07         | 2.79E-07      | 1.09E-09          |
| 14          | 7         | Surface      | Uranium     | mg/kg        | 3.33E+02   | 1.16E-03         | 5.66E-04      | 7.78E-08          |
| 14          | 8         | Surface      | Antimony    | mg/kg        | 6.10E-01   | 2.12E-06         | 1.04E-06      | 1.42E-10          |
| 14          | 8         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 3.96E-05         | 1.16E-05      | 2.66E-09          |
| 14          | 8         | Surface      | Chromium    | mg/kg        | 4.60E+01   | 1.60E-04         | 7.83E-05      | 1.08E-08          |
| 14          | 8         | Surface      | Mercury     | mg/kg        | 7.90E+00   | 2.75E-05         | 1.34E-05      | 5.50E-05          |
| 14          | 8         | Surface      | Nickel      | mg/kg        | 6.73E+02   | 2.34E-03         | 9.15E-04      | 1.57E-07          |
| 14          | 8         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 1.74E-05         | 2.38E-05      | 1.97E-06          |
| 14          | 8         | Surface      | Silver      | mg/kg        | 9.63E+00   | 3.35E-05         | 1.31E-05      | 2.25E-09          |
| 14          | 8         | Surface      | Total PAH   | mg/kg        | 6.28E-02   | 2.18E-07         | 2.78E-07      | 1.08E-09          |
| 14          | 8         | Surface      | Uranium     | mg/kg        | 3.35E+02   | 1.17E-03         | 5.71E-04      | 7.83E-08          |
| 14          | 9         | Surface      | Antimony    | mg/kg        | 2.00E+00   | 6.95E-06         | 3.40E-06      | 4.67E-10          |
| 14          | 9         | Surface      | Arsenic     | mg/kg        | 1.40E+01   | 4.88E-05         | 1.43E-05      | 3.28E-09          |
| 14          | 9         | Surface      | Cadmium     | mg/kg        | 9.40E-01   | 3.27E-06         | 3.20E-08      | 2.20E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 9         | Surface      | Chromium    | mg/kg        | 4.64E+01   | 1.61E-04         | 7.90E-05      | 1.08E-08          |
| 14          | 9         | Surface      | Mercury     | mg/kg        | 1.13E+00   | 3.93E-06         | 1.92E-06      | 7.87E-06          |
| 14          | 9         | Surface      | Nickel      | mg/kg        | 9.43E+02   | 3.28E-03         | 1.28E-03      | 2.20E-07          |
| 14          | 9         | Surface      | PCB, Total  | mg/kg        | 6.84E+00   | 2.38E-05         | 3.26E-05      | 2.69E-06          |
| 14          | 9         | Surface      | Total PAH   | mg/kg        | 4.87E-01   | 1.69E-06         | 2.16E-06      | 8.42E-09          |
| 14          | 9         | Surface      | Uranium     | mg/kg        | 1.46E+03   | 5.09E-03         | 2.49E-03      | 3.42E-07          |
| 14          | 10        | Surface      | Antimony    | mg/kg        | 9.40E-01   | 3.27E-06         | 1.60E-06      | 2.20E-10          |
| 14          | 10        | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 3.91E-05         | 1.15E-05      | 2.63E-09          |
| 14          | 10        | Surface      | Chromium    | mg/kg        | 4.19E+01   | 1.45E-04         | 7.12E-05      | 9.77E-09          |
| 14          | 10        | Surface      | Copper      | mg/kg        | 1.41E+02   | 4.91E-04         | 2.40E-04      | 3.30E-08          |
| 14          | 10        | Surface      | Iron        | mg/kg        | 2.75E+04   | 9.54E-02         | 4.67E-02      | 6.41E-06          |
| 14          | 10        | Surface      | Mercury     | mg/kg        | 2.51E+01   | 8.72E-05         | 4.27E-05      | 1.75E-04          |
| 14          | 10        | Surface      | Nickel      | mg/kg        | 6.00E+02   | 2.09E-03         | 8.17E-04      | 1.40E-07          |
| 14          | 10        | Surface      | PCB, Total  | mg/kg        | 9.38E+00   | 3.26E-05         | 4.47E-05      | 3.69E-06          |
| 14          | 10        | Surface      | Total PAH   | mg/kg        | 2.72E-01   | 9.44E-07         | 1.20E-06      | 4.69E-09          |
| 14          | 10        | Surface      | Uranium     | mg/kg        | 2.88E+02   | 1.00E-03         | 4.91E-04      | 6.74E-08          |
| 518         | 1         | Surface      | Carbazole   | mg/kg        | 1.17E+01   | 4.07E-05         | 3.99E-05      | 1.27E-06          |
| 518         | 1         | Surface      | Cobalt      | mg/kg        | 6.80E+00   | 2.36E-05         | 1.16E-05      | 1.59E-09          |
| 518         | 1         | Surface      | Nickel      | mg/kg        | 1.29E+01   | 4.47E-05         | 1.75E-05      | 3.00E-09          |
| 518         | 1         | Surface      | PCB, Total  | mg/kg        | 6.30E-01   | 2.19E-06         | 3.00E-06      | 2.48E-07          |
| 518         | 1         | Surface      | Pyrene      | mg/kg        | 3.94E+01   | 1.37E-04         | 1.74E-04      | 6.05E-06          |
| 518         | 1         | Surface      | Total PAH   | mg/kg        | 3.90E+01   | 1.35E-04         | 1.72E-04      | 6.73E-07          |
| 518         | 1         | Surface      | Uranium     | mg/kg        | 2.17E+02   | 7.54E-04         | 3.69E-04      | 5.07E-08          |
| 520         | 1         | Surface      | Chromium    | mg/kg        | 3.17E+01   | 1.10E-04         | 5.40E-05      | 7.41E-09          |
| 520         | 1         | Surface      | Iron        | mg/kg        | 1.56E+04   | 5.42E-02         | 2.65E-02      | 3.64E-06          |
| 520         | 1         | Surface      | Mercury     | mg/kg        | 1.07E+01   | 3.71E-05         | 1.82E-05      | 7.44E-05          |
| 520         | 1         | Surface      | Nickel      | mg/kg        | 2.60E+02   | 9.05E-04         | 3.54E-04      | 6.08E-08          |
| 520         | 1         | Surface      | Silver      | mg/kg        | 1.30E+01   | 4.51E-05         | 1.77E-05      | 3.03E-09          |
| 520         | 1         | Surface      | Total PAH   | mg/kg        | 3.18E-02   | 1.11E-07         | 1.41E-07      | 5.50E-10          |
| 520         | 1         | Surface      | Uranium     | mg/kg        | 2.29E+01   | 7.97E-05         | 3.90E-05      | 5.36E-09          |
| 520         | 2         | Surface      | Beryllium   | mg/kg        | 5.79E-01   | 2.01E-06         | 1.38E-07      | 1.35E-10          |
| 520         | 2         | Surface      | Chromium    | mg/kg        | 6.67E+01   | 2.32E-04         | 1.13E-04      | 1.56E-08          |
| 520         | 2         | Surface      | Manganese   | mg/kg        | 5.89E+02   | 2.05E-03         | 8.02E-04      | 1.38E-07          |
| 520         | 2         | Surface      | Mercury     | mg/kg        | 1.19E+01   | 4.13E-05         | 2.02E-05      | 8.27E-05          |
| 520         | 2         | Surface      | Nickel      | mg/kg        | 3.11E+02   | 1.08E-03         | 4.23E-04      | 7.25E-08          |
| 520         | 2         | Surface      | Total PAH   | mg/kg        | 3.17E-01   | 1.10E-06         | 1.40E-06      | 5.47E-09          |
| 520         | 2         | Surface      | Uranium     | mg/kg        | 3.96E+01   | 1.37E-04         | 6.73E-05      | 9.24E-09          |
| 520         | 3         | Surface      | Chromium    | mg/kg        | 3.97E+01   | 1.38E-04         | 6.75E-05      | 9.27E-09          |
| 520         | 3         | Surface      | Copper      | mg/kg        | 1.19E+02   | 4.14E-04         | 2.02E-04      | 2.78E-08          |
| 520         | 3         | Surface      | Nickel      | mg/kg        | 2.65E+02   | 9.20E-04         | 3.60E-04      | 6.18E-08          |
| 520         | 3         | Surface      | Silver      | mg/kg        | 1.27E+01   | 4.40E-05         | 1.72E-05      | 2.96E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.15. Noncancerous CDIs for the Outdoor Worker (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 520         | 3         | Surface      | Total PAH   | mg/kg        | 1.18E-01   | 4.10E-07         | 5.22E-07      | 2.04E-09          |
| 520         | 3         | Surface      | Uranium     | mg/kg        | 1.92E+01   | 6.68E-05         | 3.27E-05      | 4.49E-09          |
| 520         | 4         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 1.33E-04         | 6.51E-05      | 8.93E-09          |
| 520         | 4         | Surface      | Copper      | mg/kg        | 1.11E+02   | 3.84E-04         | 1.88E-04      | 2.58E-08          |
| 520         | 4         | Surface      | Mercury     | mg/kg        | 9.69E+00   | 3.37E-05         | 1.65E-05      | 6.75E-05          |
| 520         | 4         | Surface      | Nickel      | mg/kg        | 2.82E+02   | 9.80E-04         | 3.84E-04      | 6.58E-08          |
| 520         | 4         | Surface      | Silver      | mg/kg        | 1.04E+01   | 3.63E-05         | 1.42E-05      | 2.44E-09          |
| 520         | 4         | Surface      | Total PAH   | mg/kg        | 5.52E-01   | 1.92E-06         | 2.44E-06      | 9.54E-09          |
| 520         | 4         | Surface      | Uranium     | mg/kg        | 2.40E+01   | 8.35E-05         | 4.09E-05      | 5.61E-09          |
| 520         | 5         | Surface      | Antimony    | mg/kg        | 9.60E-01   | 3.34E-06         | 1.63E-06      | 2.24E-10          |
| 520         | 5         | Surface      | Chromium    | mg/kg        | 3.68E+01   | 1.28E-04         | 6.27E-05      | 8.60E-09          |
| 520         | 5         | Surface      | Nickel      | mg/kg        | 1.47E+02   | 5.11E-04         | 2.00E-04      | 3.43E-08          |
| 520         | 5         | Surface      | Total PAH   | mg/kg        | 3.87E-01   | 1.35E-06         | 1.71E-06      | 6.69E-09          |
| 81          | 1         | Surface      | Aluminum    | mg/kg        | 9.57E+03   | 3.33E-02         | 1.63E-02      | 2.24E-06          |
| 81          | 1         | Surface      | Arsenic     | mg/kg        | 1.03E+01   | 3.56E-05         | 1.05E-05      | 2.39E-09          |
| 81          | 1         | Surface      | Beryllium   | mg/kg        | 7.57E-01   | 2.63E-06         | 1.80E-07      | 1.77E-10          |
| 81          | 1         | Surface      | Chromium    | mg/kg        | 8.62E+01   | 3.00E-04         | 1.47E-04      | 2.01E-08          |
| 81          | 1         | Surface      | Mercury     | mg/kg        | 8.33E+00   | 2.90E-05         | 1.42E-05      | 5.80E-05          |
| 81          | 1         | Surface      | Nickel      | mg/kg        | 7.29E+01   | 2.53E-04         | 9.92E-05      | 1.70E-08          |
| 81          | 1         | Surface      | PCB, Total  | mg/kg        | 1.60E+02   | 5.55E-04         | 7.61E-04      | 6.29E-05          |
| 81          | 1         | Surface      | Silver      | mg/kg        | 2.70E+00   | 9.38E-06         | 3.68E-06      | 6.31E-10          |
| 81          | 1         | Surface      | Total PAH   | mg/kg        | 5.53E-01   | 1.92E-06         | 2.45E-06      | 9.55E-09          |
| 81          | 1         | Surface      | Uranium     | mg/kg        | 6.50E+03   | 2.26E-02         | 1.11E-02      | 1.52E-06          |
| 153         | 1         | Surface      | PCB, Total  | mg/kg        | 5.09E-01   | 1.77E-06         | 2.43E-06      | 2.00E-07          |
| 153         | 1         | Surface      | Total PAH   | mg/kg        | 8.69E-02   | 3.02E-07         | 3.85E-07      | 1.50E-09          |
| 156         | 1         | Surface      | Chromium    | mg/kg        | 4.90E+01   | 1.70E-04         | 8.34E-05      | 1.15E-08          |
| 156         | 1         | Surface      | Manganese   | mg/kg        | 2.83E+03   | 9.85E-03         | 3.86E-03      | 6.62E-07          |
| 156         | 1         | Surface      | Mercury     | mg/kg        | 9.87E+00   | 3.43E-05         | 1.68E-05      | 6.87E-05          |
| 156         | 1         | Surface      | Nickel      | mg/kg        | 6.16E+01   | 2.14E-04         | 8.39E-05      | 1.44E-08          |
| 156         | 1         | Surface      | PCB, Total  | mg/kg        | 3.00E-01   | 1.04E-06         | 1.43E-06      | 1.18E-07          |
| 156         | 1         | Surface      | Total PAH   | mg/kg        | 8.26E-02   | 2.87E-07         | 3.65E-07      | 1.43E-09          |
| 156         | 1         | Surface      | Uranium     | mg/kg        | 2.32E+01   | 8.06E-05         | 3.95E-05      | 5.42E-09          |
| 160         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 2.36E-06         | 1.16E-06      | 1.59E-10          |
| 160         | 1         | Surface      | Total PAH   | mg/kg        | 5.29E-02   | 1.84E-07         | 2.34E-07      | 9.14E-10          |
| 163         | 1         | Surface      | Chromium    | mg/kg        | 4.94E+01   | 1.72E-04         | 8.41E-05      | 1.15E-08          |
| 163         | 1         | Surface      | Total PAH   | mg/kg        | 1.63E-01   | 5.67E-07         | 7.21E-07      | 2.82E-09          |
| 219         | 1         | Surface      | Nickel      | mg/kg        | 6.71E+01   | 2.33E-04         | 9.14E-05      | 1.57E-08          |
| 219         | 1         | Surface      | Total PAH   | mg/kg        | 7.50E-02   | 2.61E-07         | 3.32E-07      | 1.30E-09          |
| 488         | 1         | Surface      | PCB, Total  | mg/kg        | 1.03E+01   | 3.58E-05         | 4.91E-05      | 4.06E-06          |
| 488         | 1         | Surface      | Total PAH   | mg/kg        | 2.50E-01   | 8.68E-07         | 1.10E-06      | 4.31E-09          |
| 488         | 1         | Surface      | Uranium     | mg/kg        | 1.48E+01   | 5.14E-05         | 2.52E-05      | 3.46E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 1    | 1  | Surface | Beryllium         | mg/kg | 3.89E+00 | 4.83E-06  | 3.31E-07 | 3.25E-10   |                   |
| 1    | 1  | Surface | Cadmium           | mg/kg | 1.10E+00 | 1.37E-06  | 1.34E-08 | 9.18E-11   |                   |
| 1    | 1  | Surface | Chromium          | mg/kg | 1.28E+01 | 1.59E-05  | 7.79E-06 | 1.07E-09   |                   |
| 1    | 1  | Surface | PCB, Total        | mg/kg | 1.76E-01 | 2.18E-07  | 2.99E-07 | 2.48E-08   |                   |
| 1    | 1  | Surface | Cesium-137        | pCi/g | 5.91E-01 | 1.31E+03  |          | 8.82E-02   | 2.00E+00          |
| 1    | 1  | Surface | Neptunium-237     | pCi/g | 4.02E-01 | 8.92E+02  |          | 6.00E-02   | 1.36E+00          |
| 1    | 1  | Surface | Plutonium-239/240 | pCi/g | 6.14E+00 | 1.36E+04  |          | 9.16E-01   | 2.08E+01          |
| 1    | 1  | Surface | Thorium-230       | pCi/g | 4.40E+01 | 9.77E+04  |          | 6.57E+00   | 1.49E+02          |
| 1    | 1  | Surface | Uranium-235       | pCi/g | 1.06E-01 | 2.35E+02  |          | 1.58E-02   | 3.58E-01          |
| 1    | 1  | Surface | Uranium-238       | pCi/g | 1.97E+00 | 4.38E+03  |          | 2.95E-01   | 6.67E+00          |
| 1    | 2  | Surface | Beryllium         | mg/kg | 8.23E+00 | 1.02E-05  | 7.00E-07 | 6.86E-10   |                   |
| 1    | 2  | Surface | Cadmium           | mg/kg | 6.46E+00 | 8.02E-06  | 7.85E-08 | 5.39E-10   |                   |
| 1    | 2  | Surface | Chromium          | mg/kg | 2.01E+02 | 2.50E-04  | 1.22E-04 | 1.68E-08   |                   |
| 1    | 2  | Surface | Copper            | mg/kg | 1.81E+02 | 2.25E-04  | 1.10E-04 | 1.51E-08   |                   |
| 1    | 2  | Surface | Mercury           | mg/kg | 5.94E+00 | 7.37E-06  | 3.61E-06 | 1.48E-05   |                   |
| 1    | 2  | Surface | Nickel            | mg/kg | 5.75E+01 | 7.13E-05  | 2.79E-05 | 4.79E-09   |                   |
| 1    | 2  | Surface | PCB, Total        | mg/kg | 3.21E+01 | 3.99E-05  | 5.46E-05 | 4.52E-06   |                   |
| 1    | 2  | Surface | Silver            | mg/kg | 3.31E+01 | 4.11E-05  | 1.61E-05 | 2.76E-09   |                   |
| 1    | 2  | Surface | Thallium          | mg/kg | 3.70E-01 | 4.59E-07  | 2.25E-07 | 3.09E-11   |                   |
| 1    | 2  | Surface | Vanadium          | mg/kg | 3.49E+01 | 4.33E-05  | 1.10E-05 | 2.91E-09   |                   |
| 1    | 3  | Surface | Chromium          | mg/kg | 1.45E+01 | 1.80E-05  | 8.79E-06 | 1.21E-09   |                   |
| 1    | 3  | Surface | PCB, Total        | mg/kg | 2.17E-01 | 2.69E-07  | 3.69E-07 | 3.05E-08   |                   |
| 1    | 3  | Surface | Uranium-238       | pCi/g | 1.73E+00 | 3.84E+03  |          | 2.58E-01   | 5.85E+00          |
| 1    | 4  | Surface | Beryllium         | mg/kg | 7.25E-01 | 9.00E-07  | 6.17E-08 | 6.05E-11   |                   |
| 1    | 4  | Surface | Chromium          | mg/kg | 9.30E+01 | 1.15E-04  | 5.65E-05 | 7.76E-09   |                   |
| 1    | 4  | Surface | Nickel            | mg/kg | 4.69E+01 | 5.82E-05  | 2.28E-05 | 3.91E-09   |                   |
| 1    | 4  | Surface | PCB, Total        | mg/kg | 1.30E-01 | 1.61E-07  | 2.21E-07 | 1.83E-08   |                   |
| 1    | 4  | Surface | Cobalt-60         | pCi/g | 2.20E-02 | 4.88E+01  |          | 3.28E-03   | 7.43E-02          |
| 1    | 4  | Surface | Thorium-230       | pCi/g | 5.03E+00 | 1.12E+04  |          | 7.50E-01   | 1.70E+01          |
| 1    | 5  | Surface | Beryllium         | mg/kg | 8.30E+00 | 1.03E-05  | 7.06E-07 | 6.92E-10   |                   |
| 1    | 5  | Surface | Cadmium           | mg/kg | 1.20E+00 | 1.49E-06  | 1.46E-08 | 1.00E-10   |                   |
| 1    | 5  | Surface | Nickel            | mg/kg | 4.07E+01 | 5.05E-05  | 1.98E-05 | 3.40E-09   |                   |
| 1    | 5  | Surface | PCB, Total        | mg/kg | 2.70E-01 | 3.35E-07  | 4.59E-07 | 3.80E-08   |                   |
| 1    | 5  | Surface | Total PAH         | mg/kg | 9.83E-02 | 1.22E-07  | 1.55E-07 | 6.06E-10   |                   |
| 99   | 1  | Surface | Chromium          | mg/kg | 5.51E+01 | 6.84E-05  | 3.35E-05 | 4.60E-09   |                   |
| 99   | 1  | Surface | Mercury           | mg/kg | 9.53E+00 | 1.18E-05  | 5.79E-06 | 2.37E-05   |                   |
| 99   | 1  | Surface | Nickel            | mg/kg | 7.02E+01 | 8.71E-05  | 3.41E-05 | 5.86E-09   |                   |
| 99   | 1  | Surface | Silver            | mg/kg | 1.03E+01 | 1.28E-05  | 5.01E-06 | 8.59E-10   |                   |
| 99   | 1  | Surface | Cobalt-60         | pCi/g | 1.19E-02 | 2.64E+01  |          | 1.78E-03   | 4.02E-02          |
| 99   | 1  | Surface | Uranium-238       | pCi/g | 9.45E-01 | 2.10E+03  |          | 1.41E-01   | 3.19E+00          |
| 194  | 1  | Surface | Antimony          | mg/kg | 1.50E+00 | 1.86E-06  | 9.12E-07 | 1.25E-10   |                   |
| 194  | 1  | Surface | Chromium          | mg/kg | 3.87E+01 | 4.80E-05  | 2.35E-05 | 3.23E-09   |                   |
| 194  | 1  | Surface | Mercury           | mg/kg | 6.71E+00 | 8.33E-06  | 4.08E-06 | 1.67E-05   |                   |
| 194  | 1  | Surface | Nickel            | mg/kg | 5.84E+01 | 7.25E-05  | 2.84E-05 | 4.87E-09   |                   |
| 194  | 1  | Surface | Silver            | mg/kg | 1.09E+01 | 1.36E-05  | 5.31E-06 | 9.12E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 2  | Surface | Chromium    | mg/kg | 5.96E+01 | 7.40E-05  | 3.62E-05 | 4.97E-09   |                   |
| 194  | 2  | Surface | Silver      | mg/kg | 1.31E+01 | 1.63E-05  | 6.38E-06 | 1.10E-09   |                   |
| 194  | 2  | Surface | Uranium     | mg/kg | 2.28E+01 | 2.83E-05  | 1.38E-05 | 1.90E-09   |                   |
| 194  | 2  | Surface | Uranium-238 | pCi/g | 1.42E+00 | 3.15E+03  |          | 2.12E-01   | 4.80E+00          |
| 194  | 3  | Surface | Antimony    | mg/kg | 6.90E-01 | 8.56E-07  | 4.19E-07 | 5.76E-11   |                   |
| 194  | 3  | Surface | Arsenic     | mg/kg | 1.46E+01 | 1.82E-05  | 5.34E-06 | 1.22E-09   |                   |
| 194  | 3  | Surface | Chromium    | mg/kg | 3.90E+01 | 4.84E-05  | 2.37E-05 | 3.25E-09   |                   |
| 194  | 3  | Surface | Nickel      | mg/kg | 6.40E+01 | 7.95E-05  | 3.11E-05 | 5.34E-09   |                   |
| 194  | 3  | Surface | Total PAH   | mg/kg | 3.93E-02 | 4.88E-08  | 6.21E-08 | 2.42E-10   |                   |
| 194  | 3  | Surface | Uranium-238 | pCi/g | 1.28E+00 | 2.85E+03  |          | 1.92E-01   | 4.34E+00          |
| 194  | 4  | Surface | Chromium    | mg/kg | 4.84E+01 | 6.01E-05  | 2.94E-05 | 4.04E-09   |                   |
| 194  | 4  | Surface | Mercury     | mg/kg | 8.92E+00 | 1.11E-05  | 5.42E-06 | 2.22E-05   |                   |
| 194  | 4  | Surface | Nickel      | mg/kg | 6.91E+01 | 8.57E-05  | 3.36E-05 | 5.76E-09   |                   |
| 194  | 4  | Surface | Silver      | mg/kg | 1.18E+01 | 1.46E-05  | 5.73E-06 | 9.83E-10   |                   |
| 194  | 4  | Surface | Total PAH   | mg/kg | 7.30E-02 | 9.06E-08  | 1.15E-07 | 4.50E-10   |                   |
| 194  | 4  | Surface | Uranium-238 | pCi/g | 1.73E+00 | 3.84E+03  |          | 2.58E-01   | 5.85E+00          |
| 194  | 5  | Surface | Chromium    | mg/kg | 4.58E+01 | 5.68E-05  | 2.78E-05 | 3.82E-09   |                   |
| 194  | 5  | Surface | Mercury     | mg/kg | 8.69E+00 | 1.08E-05  | 5.28E-06 | 2.16E-05   |                   |
| 194  | 5  | Surface | Nickel      | mg/kg | 7.54E+01 | 9.36E-05  | 3.67E-05 | 6.29E-09   |                   |
| 194  | 5  | Surface | Silver      | mg/kg | 1.25E+01 | 1.55E-05  | 6.05E-06 | 1.04E-09   |                   |
| 194  | 5  | Surface | Total PAH   | mg/kg | 2.37E-02 | 2.94E-08  | 3.74E-08 | 1.46E-10   |                   |
| 194  | 5  | Surface | Uranium-238 | pCi/g | 1.38E+00 | 3.06E+03  |          | 2.06E-01   | 4.66E+00          |
| 194  | 6  | Surface | Chromium    | mg/kg | 3.70E+01 | 4.59E-05  | 2.25E-05 | 3.09E-09   |                   |
| 194  | 6  | Surface | Manganese   | mg/kg | 1.08E+03 | 1.34E-03  | 5.25E-04 | 9.01E-08   |                   |
| 194  | 6  | Surface | Nickel      | mg/kg | 8.06E+01 | 1.00E-04  | 3.92E-05 | 6.72E-09   |                   |
| 194  | 6  | Surface | Silver      | mg/kg | 9.89E+00 | 1.23E-05  | 4.81E-06 | 8.25E-10   |                   |
| 194  | 6  | Surface | Uranium-238 | pCi/g | 1.32E+00 | 2.93E+03  |          | 1.97E-01   | 4.46E+00          |
| 194  | 7  | Surface | Chromium    | mg/kg | 5.32E+01 | 6.60E-05  | 3.23E-05 | 4.44E-09   |                   |
| 194  | 7  | Surface | Nickel      | mg/kg | 7.71E+01 | 9.58E-05  | 3.75E-05 | 6.43E-09   |                   |
| 194  | 7  | Surface | Silver      | mg/kg | 1.25E+01 | 1.55E-05  | 6.08E-06 | 1.04E-09   |                   |
| 194  | 8  | Surface | Chromium    | mg/kg | 5.36E+01 | 6.65E-05  | 3.26E-05 | 4.47E-09   |                   |
| 194  | 8  | Surface | Manganese   | mg/kg | 8.00E+02 | 9.93E-04  | 3.89E-04 | 6.67E-08   |                   |
| 194  | 8  | Surface | Total PAH   | mg/kg | 4.85E-01 | 6.02E-07  | 7.66E-07 | 2.99E-09   |                   |
| 194  | 8  | Surface | Uranium-238 | pCi/g | 1.39E+00 | 3.09E+03  |          | 2.07E-01   | 4.70E+00          |
| 194  | 9  | Surface | Arsenic     | mg/kg | 1.14E+01 | 1.42E-05  | 4.16E-06 | 9.53E-10   |                   |
| 194  | 9  | Surface | Chromium    | mg/kg | 5.17E+01 | 6.41E-05  | 3.14E-05 | 4.31E-09   |                   |
| 194  | 10 | Surface | Arsenic     | mg/kg | 1.22E+01 | 1.51E-05  | 4.43E-06 | 1.01E-09   |                   |
| 194  | 10 | Surface | Chromium    | mg/kg | 3.63E+01 | 4.50E-05  | 2.21E-05 | 3.03E-09   |                   |
| 194  | 10 | Surface | Nickel      | mg/kg | 7.60E+01 | 9.43E-05  | 3.69E-05 | 6.34E-09   |                   |
| 194  | 10 | Surface | Total PAH   | mg/kg | 2.57E-01 | 3.19E-07  | 4.06E-07 | 1.59E-09   |                   |
| 194  | 10 | Surface | Cesium-137  | pCi/g | 5.81E-01 | 1.29E+03  |          | 8.67E-02   | 1.96E+00          |
| 194  | 10 | Surface | Uranium-238 | pCi/g | 1.49E+00 | 3.31E+03  |          | 2.22E-01   | 5.03E+00          |
| 194  | 11 | Surface | Chromium    | mg/kg | 3.27E+01 | 4.06E-05  | 1.99E-05 | 2.73E-09   |                   |
| 194  | 11 | Surface | Mercury     | mg/kg | 8.09E+00 | 1.00E-05  | 4.92E-06 | 2.01E-05   |                   |
| 194  | 11 | Surface | Nickel      | mg/kg | 1.01E+02 | 1.25E-04  | 4.89E-05 | 8.40E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 11 | Surface | PCB, Total | mg/kg | 8.40E-02 | 1.04E-07  | 1.43E-07 | 1.18E-08   |                   |
| 194  | 11 | Surface | Silver     | mg/kg | 1.33E+01 | 1.65E-05  | 6.46E-06 | 1.11E-09   |                   |
| 194  | 11 | Surface | Total PAH  | mg/kg | 7.95E-02 | 9.87E-08  | 1.26E-07 | 4.91E-10   |                   |
| 194  | 12 | Surface | Chromium   | mg/kg | 6.34E+01 | 7.86E-05  | 3.85E-05 | 5.29E-09   |                   |
| 194  | 12 | Surface | Nickel     | mg/kg | 7.86E+01 | 9.76E-05  | 3.82E-05 | 6.56E-09   |                   |
| 194  | 12 | Surface | Silver     | mg/kg | 1.20E+01 | 1.49E-05  | 5.82E-06 | 9.99E-10   |                   |
| 194  | 12 | Surface | Total PAH  | mg/kg | 8.91E-01 | 1.11E-06  | 1.41E-06 | 5.50E-09   |                   |
| 194  | 13 | Surface | Chromium   | mg/kg | 4.77E+01 | 5.91E-05  | 2.90E-05 | 3.97E-09   |                   |
| 194  | 13 | Surface | Nickel     | mg/kg | 6.03E+01 | 7.49E-05  | 2.93E-05 | 5.03E-09   |                   |
| 194  | 13 | Surface | Total PAH  | mg/kg | 9.13E-02 | 1.13E-07  | 1.44E-07 | 5.63E-10   |                   |
| 194  | 14 | Surface | Chromium   | mg/kg | 5.21E+01 | 6.47E-05  | 3.17E-05 | 4.35E-09   |                   |
| 194  | 14 | Surface | Mercury    | mg/kg | 8.14E+00 | 1.01E-05  | 4.95E-06 | 2.02E-05   |                   |
| 194  | 15 | Surface | Chromium   | mg/kg | 5.33E+01 | 6.62E-05  | 3.24E-05 | 4.45E-09   |                   |
| 194  | 15 | Surface | Silver     | mg/kg | 1.03E+01 | 1.28E-05  | 5.01E-06 | 8.60E-10   |                   |
| 194  | 16 | Surface | Antimony   | mg/kg | 7.40E-01 | 9.19E-07  | 4.50E-07 | 6.17E-11   |                   |
| 194  | 16 | Surface | Arsenic    | mg/kg | 1.15E+01 | 1.43E-05  | 4.20E-06 | 9.61E-10   |                   |
| 194  | 16 | Surface | Beryllium  | mg/kg | 8.70E-01 | 1.08E-06  | 7.40E-08 | 7.26E-11   |                   |
| 194  | 16 | Surface | Chromium   | mg/kg | 5.32E+01 | 6.61E-05  | 3.24E-05 | 4.44E-09   |                   |
| 194  | 16 | Surface | Nickel     | mg/kg | 7.20E+01 | 8.94E-05  | 3.50E-05 | 6.01E-09   |                   |
| 194  | 16 | Surface | Thallium   | mg/kg | 6.30E-01 | 7.82E-07  | 3.83E-07 | 5.26E-11   |                   |
| 194  | 16 | Surface | Vanadium   | mg/kg | 4.11E+01 | 5.10E-05  | 1.30E-05 | 3.43E-09   |                   |
| 194  | 17 | Surface | Arsenic    | mg/kg | 1.16E+01 | 1.43E-05  | 4.21E-06 | 9.63E-10   |                   |
| 194  | 17 | Surface | Cadmium    | mg/kg | 1.10E+00 | 1.37E-06  | 1.34E-08 | 9.18E-11   |                   |
| 194  | 17 | Surface | Chromium   | mg/kg | 4.65E+01 | 5.77E-05  | 2.82E-05 | 3.88E-09   |                   |
| 194  | 17 | Surface | Total PAH  | mg/kg | 1.59E-01 | 1.97E-07  | 2.51E-07 | 9.79E-10   |                   |
| 194  | 18 | Surface | Arsenic    | mg/kg | 1.06E+01 | 1.31E-05  | 3.85E-06 | 8.82E-10   |                   |
| 194  | 18 | Surface | Beryllium  | mg/kg | 7.40E-01 | 9.19E-07  | 6.30E-08 | 6.17E-11   |                   |
| 194  | 18 | Surface | Chromium   | mg/kg | 6.85E+01 | 8.50E-05  | 4.16E-05 | 5.71E-09   |                   |
| 194  | 18 | Surface | Nickel     | mg/kg | 5.78E+01 | 7.17E-05  | 2.81E-05 | 4.82E-09   |                   |
| 194  | 19 | Surface | Arsenic    | mg/kg | 1.07E+01 | 1.33E-05  | 3.90E-06 | 8.92E-10   |                   |
| 194  | 19 | Surface | Chromium   | mg/kg | 4.84E+01 | 6.00E-05  | 2.94E-05 | 4.03E-09   |                   |
| 194  | 19 | Surface | Nickel     | mg/kg | 5.84E+01 | 7.25E-05  | 2.84E-05 | 4.87E-09   |                   |
| 194  | 20 | Surface | Arsenic    | mg/kg | 1.18E+01 | 1.47E-05  | 4.32E-06 | 9.88E-10   |                   |
| 194  | 20 | Surface | Barium     | mg/kg | 3.26E+02 | 4.05E-04  | 1.98E-04 | 2.72E-08   |                   |
| 194  | 20 | Surface | Beryllium  | mg/kg | 1.10E+00 | 1.37E-06  | 9.36E-08 | 9.18E-11   |                   |
| 194  | 20 | Surface | Chromium   | mg/kg | 5.24E+01 | 6.50E-05  | 3.18E-05 | 4.37E-09   |                   |
| 194  | 20 | Surface | Cobalt     | mg/kg | 2.11E+01 | 2.62E-05  | 1.28E-05 | 1.76E-09   |                   |
| 194  | 20 | Surface | Manganese  | mg/kg | 2.29E+03 | 2.85E-03  | 1.12E-03 | 1.91E-07   |                   |
| 194  | 20 | Surface | Mercury    | mg/kg | 7.28E+00 | 9.04E-06  | 4.42E-06 | 1.81E-05   |                   |
| 194  | 20 | Surface | Nickel     | mg/kg | 6.57E+01 | 8.16E-05  | 3.19E-05 | 5.48E-09   |                   |
| 194  | 20 | Surface | Silver     | mg/kg | 1.22E+01 | 1.52E-05  | 5.94E-06 | 1.02E-09   |                   |
| 194  | 20 | Surface | Total PAH  | mg/kg | 3.10E-02 | 3.85E-08  | 4.90E-08 | 1.91E-10   |                   |
| 194  | 20 | Surface | Vanadium   | mg/kg | 3.81E+01 | 4.73E-05  | 1.20E-05 | 3.18E-09   |                   |
| 194  | 21 | Surface | Antimony   | mg/kg | 9.30E-01 | 1.15E-06  | 5.65E-07 | 7.76E-11   |                   |
| 194  | 21 | Surface | Chromium   | mg/kg | 5.51E+01 | 6.84E-05  | 3.35E-05 | 4.60E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 21 | Surface | Mercury     | mg/kg | 6.62E+00 | 8.22E-06  | 4.02E-06 | 1.65E-05   |                   |
| 194  | 21 | Surface | Nickel      | mg/kg | 7.01E+01 | 8.70E-05  | 3.41E-05 | 5.85E-09   |                   |
| 194  | 21 | Surface | Thallium    | mg/kg | 6.40E-01 | 7.94E-07  | 3.89E-07 | 5.34E-11   |                   |
| 194  | 22 | Surface | Chromium    | mg/kg | 4.90E+01 | 6.08E-05  | 2.98E-05 | 4.09E-09   |                   |
| 194  | 22 | Surface | Manganese   | mg/kg | 8.19E+02 | 1.02E-03  | 3.98E-04 | 6.83E-08   |                   |
| 194  | 22 | Surface | PCB, Total  | mg/kg | 1.09E+01 | 1.36E-05  | 1.86E-05 | 1.54E-06   |                   |
| 194  | 23 | Surface | Arsenic     | mg/kg | 1.16E+01 | 1.43E-05  | 4.21E-06 | 9.63E-10   |                   |
| 194  | 23 | Surface | Chromium    | mg/kg | 6.60E+01 | 8.19E-05  | 4.01E-05 | 5.50E-09   |                   |
| 194  | 23 | Surface | Iron        | mg/kg | 1.83E+04 | 2.27E-02  | 1.11E-02 | 1.53E-06   |                   |
| 194  | 23 | Surface | Nickel      | mg/kg | 8.77E+01 | 1.09E-04  | 4.26E-05 | 7.31E-09   |                   |
| 194  | 23 | Surface | Silver      | mg/kg | 1.15E+01 | 1.42E-05  | 5.58E-06 | 9.58E-10   |                   |
| 194  | 24 | Surface | Chromium    | mg/kg | 5.02E+01 | 6.23E-05  | 3.05E-05 | 4.19E-09   |                   |
| 194  | 24 | Surface | Nickel      | mg/kg | 7.08E+01 | 8.78E-05  | 3.44E-05 | 5.90E-09   |                   |
| 194  | 24 | Surface | Total PAH   | mg/kg | 2.28E-02 | 2.83E-08  | 3.60E-08 | 1.41E-10   |                   |
| 194  | 25 | Surface | Barium      | mg/kg | 3.00E+02 | 3.72E-04  | 1.82E-04 | 2.50E-08   |                   |
| 194  | 25 | Surface | Chromium    | mg/kg | 6.13E+01 | 7.60E-05  | 3.72E-05 | 5.11E-09   |                   |
| 194  | 25 | Surface | Manganese   | mg/kg | 9.96E+02 | 1.24E-03  | 4.84E-04 | 8.31E-08   |                   |
| 194  | 25 | Surface | Nickel      | mg/kg | 6.33E+01 | 7.86E-05  | 3.08E-05 | 5.28E-09   |                   |
| 194  | 25 | Surface | Total PAH   | mg/kg | 2.06E-02 | 2.56E-08  | 3.25E-08 | 1.27E-10   |                   |
| 194  | 26 | Surface | Beryllium   | mg/kg | 7.00E-01 | 8.69E-07  | 5.96E-08 | 5.84E-11   |                   |
| 194  | 26 | Surface | Chromium    | mg/kg | 4.18E+01 | 5.19E-05  | 2.54E-05 | 3.49E-09   |                   |
| 194  | 26 | Surface | Silver      | mg/kg | 1.03E+01 | 1.27E-05  | 4.99E-06 | 8.57E-10   |                   |
| 194  | 26 | Surface | Thallium    | mg/kg | 3.90E-01 | 4.84E-07  | 2.37E-07 | 3.25E-11   |                   |
| 194  | 27 | Surface | Chromium    | mg/kg | 5.22E+01 | 6.48E-05  | 3.17E-05 | 4.35E-09   |                   |
| 194  | 27 | Surface | Nickel      | mg/kg | 6.55E+01 | 8.13E-05  | 3.18E-05 | 5.46E-09   |                   |
| 194  | 27 | Surface | Silver      | mg/kg | 1.01E+01 | 1.26E-05  | 4.92E-06 | 8.44E-10   |                   |
| 194  | 28 | Surface | Arsenic     | mg/kg | 1.20E+01 | 1.49E-05  | 4.39E-06 | 1.00E-09   |                   |
| 194  | 28 | Surface | Beryllium   | mg/kg | 7.10E-01 | 8.81E-07  | 6.04E-08 | 5.92E-11   |                   |
| 194  | 28 | Surface | Chromium    | mg/kg | 6.07E+01 | 7.53E-05  | 3.69E-05 | 5.06E-09   |                   |
| 194  | 28 | Surface | Manganese   | mg/kg | 1.14E+03 | 1.41E-03  | 5.53E-04 | 9.49E-08   |                   |
| 194  | 28 | Surface | Nickel      | mg/kg | 6.95E+01 | 8.62E-05  | 3.38E-05 | 5.79E-09   |                   |
| 194  | 28 | Surface | Silver      | mg/kg | 1.08E+01 | 1.34E-05  | 5.25E-06 | 9.00E-10   |                   |
| 194  | 28 | Surface | Vanadium    | mg/kg | 4.06E+01 | 5.04E-05  | 1.28E-05 | 3.39E-09   |                   |
| 194  | 29 | Surface | Antimony    | mg/kg | 7.10E-01 | 8.81E-07  | 4.31E-07 | 5.92E-11   |                   |
| 194  | 29 | Surface | Chromium    | mg/kg | 5.06E+01 | 6.28E-05  | 3.07E-05 | 4.22E-09   |                   |
| 194  | 29 | Surface | Nickel      | mg/kg | 6.51E+01 | 8.08E-05  | 3.16E-05 | 5.43E-09   |                   |
| 194  | 29 | Surface | Silver      | mg/kg | 9.77E+00 | 1.21E-05  | 4.75E-06 | 8.15E-10   |                   |
| 194  | 30 | Surface | Chromium    | mg/kg | 5.66E+01 | 7.02E-05  | 3.44E-05 | 4.72E-09   |                   |
| 194  | 30 | Surface | Mercury     | mg/kg | 8.80E+00 | 1.09E-05  | 5.35E-06 | 2.19E-05   |                   |
| 194  | 30 | Surface | Nickel      | mg/kg | 6.99E+01 | 8.67E-05  | 3.40E-05 | 5.83E-09   |                   |
| 194  | 30 | Surface | Silver      | mg/kg | 9.76E+00 | 1.21E-05  | 4.74E-06 | 8.14E-10   |                   |
| 194  | 31 | Surface | Cesium-137  | pCi/g | 5.70E-01 | 1.27E+03  |          | 8.50E-02   | 1.93E+00          |
| 194  | 31 | Surface | Uranium-238 | pCi/g | 1.72E+00 | 3.82E+03  |          | 2.57E-01   | 5.81E+00          |
| 196  | 1  | Surface | Antimony    | mg/kg | 5.90E-01 | 7.32E-07  | 3.59E-07 | 4.92E-11   |                   |
| 196  | 1  | Surface | Chromium    | mg/kg | 1.96E+01 | 2.43E-05  | 1.19E-05 | 1.63E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 196  | 1  | Surface | Nickel        | mg/kg | 5.56E+02 | 6.90E-04  | 2.70E-04 | 4.64E-08   |                   |
| 196  | 1  | Surface | Uranium       | mg/kg | 2.33E+01 | 2.89E-05  | 1.42E-05 | 1.94E-09   |                   |
| 196  | 1  | Surface | Neptunium-237 | pCi/g | 3.11E-01 | 6.90E+02  |          | 4.64E-02   | 1.05E+00          |
| 196  | 1  | Surface | Uranium-238   | pCi/g | 1.54E+00 | 3.42E+03  |          | 2.30E-01   | 5.20E+00          |
| 196  | 2  | Surface | Barium        | mg/kg | 2.02E+02 | 2.51E-04  | 1.23E-04 | 1.69E-08   |                   |
| 196  | 2  | Surface | Cadmium       | mg/kg | 2.53E+00 | 3.14E-06  | 3.07E-08 | 2.11E-10   |                   |
| 196  | 2  | Surface | Chromium      | mg/kg | 2.07E+01 | 2.57E-05  | 1.26E-05 | 1.73E-09   |                   |
| 196  | 2  | Surface | Nickel        | mg/kg | 7.36E+01 | 9.14E-05  | 3.58E-05 | 6.14E-09   |                   |
| 196  | 2  | Surface | PCB, Total    | mg/kg | 1.51E+00 | 1.87E-06  | 2.57E-06 | 2.12E-07   |                   |
| 196  | 2  | Surface | Total PAH     | mg/kg | 6.80E-01 | 8.44E-07  | 1.07E-06 | 4.19E-09   |                   |
| 196  | 2  | Surface | Uranium-238   | pCi/g | 2.21E+00 | 4.91E+03  |          | 3.30E-01   | 7.47E+00          |
| 489  | 1  | Surface | Chromium      | mg/kg | 4.16E+01 | 5.17E-05  | 2.53E-05 | 3.47E-09   |                   |
| 489  | 1  | Surface | Nickel        | mg/kg | 7.88E+01 | 9.78E-05  | 3.83E-05 | 6.58E-09   |                   |
| 489  | 1  | Surface | Total PAH     | mg/kg | 8.22E-02 | 1.02E-07  | 1.30E-07 | 5.07E-10   |                   |
| 489  | 1  | Surface | Uranium-238   | pCi/g | 1.47E+00 | 3.26E+03  |          | 2.19E-01   | 4.97E+00          |
| 531  | 1  | Surface | Antimony      | mg/kg | 1.00E+00 | 1.24E-06  | 6.08E-07 | 8.34E-11   |                   |
| 531  | 1  | Surface | Arsenic       | mg/kg | 4.68E+01 | 5.81E-05  | 1.71E-05 | 3.91E-09   |                   |
| 531  | 1  | Surface | Cadmium       | mg/kg | 3.10E+00 | 3.85E-06  | 3.77E-08 | 2.59E-10   |                   |
| 531  | 1  | Surface | Chromium      | mg/kg | 5.05E+01 | 6.26E-05  | 3.07E-05 | 4.21E-09   |                   |
| 531  | 1  | Surface | Iron          | mg/kg | 5.68E+04 | 7.06E-02  | 3.45E-02 | 4.74E-06   |                   |
| 531  | 1  | Surface | Nickel        | mg/kg | 1.62E+02 | 2.01E-04  | 7.89E-05 | 1.35E-08   |                   |
| 531  | 1  | Surface | Total PAH     | mg/kg | 5.34E-02 | 6.63E-08  | 8.43E-08 | 3.29E-10   |                   |
| 531  | 1  | Surface | Uranium       | mg/kg | 2.41E+01 | 2.99E-05  | 1.46E-05 | 2.01E-09   |                   |
| 531  | 1  | Surface | Zinc          | mg/kg | 2.45E+03 | 3.04E-03  | 1.49E-03 | 2.05E-07   |                   |
| 531  | 1  | Surface | Uranium-235   | pCi/g | 1.38E-01 | 3.06E+02  |          | 2.06E-02   | 4.66E-01          |
| 531  | 1  | Surface | Uranium-238   | pCi/g | 3.48E+00 | 7.73E+03  |          | 5.19E-01   | 1.18E+01          |
| 200  | 1  | Surface | Antimony      | mg/kg | 5.60E-01 | 6.95E-07  | 3.40E-07 | 4.67E-11   |                   |
| 200  | 1  | Surface | Chromium      | mg/kg | 5.75E+01 | 7.14E-05  | 3.50E-05 | 4.80E-09   |                   |
| 200  | 1  | Surface | Mercury       | mg/kg | 6.71E+00 | 8.33E-06  | 4.08E-06 | 1.67E-05   |                   |
| 200  | 1  | Surface | Nickel        | mg/kg | 1.28E+02 | 1.59E-04  | 6.22E-05 | 1.07E-08   |                   |
| 200  | 1  | Surface | PCB, Total    | mg/kg | 2.60E+00 | 3.23E-06  | 4.42E-06 | 3.66E-07   |                   |
| 200  | 1  | Surface | Total PAH     | mg/kg | 2.84E-02 | 3.53E-08  | 4.49E-08 | 1.75E-10   |                   |
| 200  | 1  | Surface | Uranium       | mg/kg | 2.73E+01 | 3.39E-05  | 1.66E-05 | 2.28E-09   |                   |
| 200  | 1  | Surface | Cesium-137    | pCi/g | 5.74E-01 | 1.27E+03  |          | 8.56E-02   | 1.94E+00          |
| 200  | 1  | Surface | Uranium-235   | pCi/g | 1.43E-01 | 3.17E+02  |          | 2.13E-02   | 4.83E-01          |
| 200  | 1  | Surface | Uranium-238   | pCi/g | 3.58E+00 | 7.94E+03  |          | 5.34E-01   | 1.21E+01          |
| 212  | 1  | Surface | Arsenic       | mg/kg | 1.44E+01 | 1.79E-05  | 5.26E-06 | 1.20E-09   |                   |
| 212  | 1  | Surface | Beryllium     | mg/kg | 8.10E-01 | 1.01E-06  | 6.89E-08 | 6.76E-11   |                   |
| 212  | 1  | Surface | Chromium      | mg/kg | 3.58E+01 | 4.44E-05  | 2.18E-05 | 2.99E-09   |                   |
| 212  | 1  | Surface | Iron          | mg/kg | 4.14E+04 | 5.14E-02  | 2.52E-02 | 3.45E-06   |                   |
| 212  | 1  | Surface | Nickel        | mg/kg | 8.69E+01 | 1.08E-04  | 4.23E-05 | 7.25E-09   |                   |
| 212  | 1  | Surface | PCB, Total    | mg/kg | 1.80E-01 | 2.23E-07  | 3.06E-07 | 2.53E-08   |                   |
| 212  | 1  | Surface | Uranium       | mg/kg | 2.30E+01 | 2.85E-05  | 1.40E-05 | 1.92E-09   |                   |
| 212  | 1  | Surface | Cesium-137    | pCi/g | 6.01E-01 | 1.33E+03  |          | 8.97E-02   | 2.03E+00          |
| 212  | 1  | Surface | Cobalt-60     | pCi/g | 8.76E-03 | 1.94E+01  |          | 1.31E-03   | 2.96E-02          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 212  | 1  | Surface | Neptunium-237     | pCi/g | 4.00E+00 | 8.88E+03  |          | 5.97E-01   | 1.35E+01          |
| 212  | 1  | Surface | Plutonium-239/240 | pCi/g | 6.71E+00 | 1.49E+04  |          | 1.00E+00   | 2.27E+01          |
| 212  | 1  | Surface | Thorium-230       | pCi/g | 2.60E+02 | 5.77E+05  |          | 3.88E+01   | 8.79E+02          |
| 212  | 1  | Surface | Uranium-235       | pCi/g | 2.09E-01 | 4.64E+02  |          | 3.12E-02   | 7.06E-01          |
| 212  | 1  | Surface | Uranium-238       | pCi/g | 3.17E+00 | 7.04E+03  |          | 4.73E-01   | 1.07E+01          |
| 213  | 1  | Surface | Antimony          | mg/kg | 8.50E-01 | 1.06E-06  | 5.17E-07 | 7.09E-11   |                   |
| 213  | 1  | Surface | Chromium          | mg/kg | 4.78E+01 | 5.93E-05  | 2.91E-05 | 3.99E-09   |                   |
| 213  | 1  | Surface | Nickel            | mg/kg | 6.67E+01 | 8.28E-05  | 3.24E-05 | 5.57E-09   |                   |
| 213  | 1  | Surface | PCB, Total        | mg/kg | 7.30E-02 | 9.06E-08  | 1.24E-07 | 1.03E-08   |                   |
| 213  | 1  | Surface | Silver            | mg/kg | 1.32E+01 | 1.63E-05  | 6.40E-06 | 1.10E-09   |                   |
| 213  | 1  | Surface | Total PAH         | mg/kg | 1.72E-01 | 2.13E-07  | 2.72E-07 | 1.06E-09   |                   |
| 213  | 1  | Surface | Uranium-238       | pCi/g | 2.33E+00 | 5.17E+03  |          | 3.48E-01   | 7.87E+00          |
| 213  | 2  | Surface | Chromium          | mg/kg | 4.48E+01 | 5.56E-05  | 2.72E-05 | 3.74E-09   |                   |
| 213  | 2  | Surface | Nickel            | mg/kg | 9.10E+01 | 1.13E-04  | 4.42E-05 | 7.59E-09   |                   |
| 213  | 2  | Surface | Silver            | mg/kg | 1.13E+01 | 1.40E-05  | 5.47E-06 | 9.39E-10   |                   |
| 214  | 1  | Surface | Antimony          | mg/kg | 5.70E-01 | 7.08E-07  | 3.46E-07 | 4.75E-11   |                   |
| 215  | 1  | Surface | Antimony          | mg/kg | 6.80E-01 | 8.44E-07  | 4.13E-07 | 5.67E-11   |                   |
| 215  | 1  | Surface | Chromium          | mg/kg | 5.73E+01 | 7.11E-05  | 3.48E-05 | 4.78E-09   |                   |
| 215  | 1  | Surface | Iron              | mg/kg | 3.87E+04 | 4.80E-02  | 2.35E-02 | 3.23E-06   |                   |
| 215  | 1  | Surface | Nickel            | mg/kg | 7.32E+01 | 9.08E-05  | 3.56E-05 | 6.10E-09   |                   |
| 215  | 1  | Surface | Total PAH         | mg/kg | 8.09E-02 | 1.00E-07  | 1.28E-07 | 4.99E-10   |                   |
| 216  | 1  | Surface | Chromium          | mg/kg | 2.38E+01 | 2.95E-05  | 1.45E-05 | 1.99E-09   |                   |
| 216  | 1  | Surface | Total PAH         | mg/kg | 1.49E-01 | 1.85E-07  | 2.36E-07 | 9.21E-10   |                   |
| 216  | 1  | Surface | Uranium-238       | pCi/g | 1.33E+00 | 2.95E+03  |          | 1.98E-01   | 4.49E+00          |
| 217  | 1  | Surface | Chromium          | mg/kg | 8.58E+01 | 1.06E-04  | 5.21E-05 | 7.15E-09   |                   |
| 217  | 1  | Surface | Cobalt            | mg/kg | 1.96E+01 | 2.43E-05  | 1.19E-05 | 1.63E-09   |                   |
| 217  | 1  | Surface | Manganese         | mg/kg | 7.70E+02 | 9.55E-04  | 3.74E-04 | 6.42E-08   |                   |
| 217  | 1  | Surface | Nickel            | mg/kg | 8.54E+01 | 1.06E-04  | 4.15E-05 | 7.13E-09   |                   |
| 217  | 1  | Surface | Silver            | mg/kg | 1.35E+01 | 1.67E-05  | 6.54E-06 | 1.12E-09   |                   |
| 217  | 1  | Surface | Uranium-238       | pCi/g | 1.15E+00 | 2.56E+03  |          | 1.72E-01   | 3.90E+00          |
| 217  | 2  | Surface | Antimony          | mg/kg | 1.70E+00 | 2.11E-06  | 1.03E-06 | 1.42E-10   |                   |
| 217  | 2  | Surface | Arsenic           | mg/kg | 1.12E+01 | 1.39E-05  | 4.07E-06 | 9.31E-10   |                   |
| 217  | 2  | Surface | Chromium          | mg/kg | 1.02E+02 | 1.26E-04  | 6.17E-05 | 8.48E-09   |                   |
| 217  | 2  | Surface | Cobalt            | mg/kg | 1.74E+01 | 2.16E-05  | 1.06E-05 | 1.45E-09   |                   |
| 217  | 2  | Surface | Iron              | mg/kg | 3.09E+04 | 3.84E-02  | 1.88E-02 | 2.58E-06   |                   |
| 217  | 2  | Surface | Manganese         | mg/kg | 8.44E+02 | 1.05E-03  | 4.10E-04 | 7.04E-08   |                   |
| 217  | 2  | Surface | Mercury           | mg/kg | 8.59E+00 | 1.07E-05  | 5.22E-06 | 2.14E-05   |                   |
| 217  | 2  | Surface | Nickel            | mg/kg | 9.74E+01 | 1.21E-04  | 4.73E-05 | 8.12E-09   |                   |
| 217  | 2  | Surface | Silver            | mg/kg | 1.61E+01 | 2.00E-05  | 7.82E-06 | 1.34E-09   |                   |
| 217  | 2  | Surface | Total PAH         | mg/kg | 5.05E-01 | 6.27E-07  | 7.98E-07 | 3.11E-09   |                   |
| 221  | 1  | Surface | Barium            | mg/kg | 2.21E+02 | 2.74E-04  | 1.34E-04 | 1.84E-08   |                   |
| 221  | 1  | Surface | Chromium          | mg/kg | 7.01E+01 | 8.70E-05  | 4.26E-05 | 5.85E-09   |                   |
| 221  | 1  | Surface | Iron              | mg/kg | 1.90E+04 | 2.36E-02  | 1.15E-02 | 1.58E-06   |                   |
| 221  | 1  | Surface | Nickel            | mg/kg | 7.93E+01 | 9.84E-05  | 3.85E-05 | 6.61E-09   |                   |
| 221  | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 6.21E-07  | 8.51E-07 | 7.03E-08   |                   |

CDI = chronic daily intake

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 221  | 1  | Surface | Total PAH     | mg/kg | 1.02E+00 | 1.27E-06  | 1.62E-06 | 6.31E-09   |                   |
| 221  | 1  | Surface | Uranium       | mg/kg | 1.64E+01 | 2.03E-05  | 9.94E-06 | 1.36E-09   |                   |
| 221  | 1  | Surface | Uranium-238   | pCi/g | 1.93E+00 | 4.28E+03  |          | 2.88E-01   | 6.52E+00          |
| 222  | 1  | Surface | Chromium      | mg/kg | 4.73E+01 | 5.87E-05  | 2.88E-05 | 3.95E-09   |                   |
| 222  | 1  | Surface | Nickel        | mg/kg | 9.19E+01 | 1.14E-04  | 4.47E-05 | 7.67E-09   |                   |
| 222  | 1  | Surface | PCB, Total    | mg/kg | 1.40E+00 | 1.74E-06  | 2.38E-06 | 1.97E-07   |                   |
| 222  | 1  | Surface | Total PAH     | mg/kg | 1.77E-01 | 2.20E-07  | 2.80E-07 | 1.09E-09   |                   |
| 222  | 1  | Surface | Uranium       | mg/kg | 2.80E+01 | 3.47E-05  | 1.70E-05 | 2.33E-09   |                   |
| 222  | 1  | Surface | Uranium-234   | pCi/g | 1.04E+01 | 2.31E+04  |          | 1.55E+00   | 3.51E+01          |
| 222  | 1  | Surface | Uranium-235   | pCi/g | 7.10E-01 | 1.58E+03  |          | 1.06E-01   | 2.40E+00          |
| 222  | 1  | Surface | Uranium-238   | pCi/g | 1.96E+01 | 4.35E+04  |          | 2.92E+00   | 6.62E+01          |
| 227  | 1  | Surface | Beryllium     | mg/kg | 5.52E-01 | 6.85E-07  | 4.70E-08 | 4.60E-11   |                   |
| 227  | 1  | Surface | Chromium      | mg/kg | 4.71E+01 | 5.85E-05  | 2.86E-05 | 3.93E-09   |                   |
| 227  | 1  | Surface | Nickel        | mg/kg | 2.03E+02 | 2.52E-04  | 9.87E-05 | 1.69E-08   |                   |
| 227  | 1  | Surface | PCB, Total    | mg/kg | 4.14E+00 | 5.14E-06  | 7.05E-06 | 5.83E-07   |                   |
| 227  | 1  | Surface | Total PAH     | mg/kg | 3.38E-01 | 4.19E-07  | 5.34E-07 | 2.08E-09   |                   |
| 227  | 1  | Surface | Uranium       | mg/kg | 1.02E+02 | 1.26E-04  | 6.17E-05 | 8.48E-09   |                   |
| 227  | 1  | Surface | Cesium-137    | pCi/g | 1.90E-01 | 4.22E+02  |          | 2.83E-02   | 6.42E-01          |
| 227  | 1  | Surface | Cobalt-60     | pCi/g | 1.53E-02 | 3.40E+01  |          | 2.28E-03   | 5.17E-02          |
| 227  | 1  | Surface | Neptunium-237 | pCi/g | 9.05E-01 | 2.01E+03  |          | 1.35E-01   | 3.06E+00          |
| 227  | 1  | Surface | Technetium-99 | pCi/g | 4.77E+01 | 1.06E+05  |          | 7.12E+00   | 1.61E+02          |
| 227  | 1  | Surface | Uranium-234   | pCi/g | 1.54E+01 | 3.43E+04  |          | 2.30E+00   | 5.22E+01          |
| 227  | 1  | Surface | Uranium-235   | pCi/g | 1.49E+00 | 3.31E+03  |          | 2.22E-01   | 5.03E+00          |
| 227  | 1  | Surface | Uranium-238   | pCi/g | 4.63E+01 | 1.03E+05  |          | 6.90E+00   | 1.56E+02          |
| 227  | 2  | Surface | Beryllium     | mg/kg | 5.32E-01 | 6.60E-07  | 4.53E-08 | 4.44E-11   |                   |
| 227  | 2  | Surface | Chromium      | mg/kg | 5.63E+01 | 6.99E-05  | 3.42E-05 | 4.70E-09   |                   |
| 227  | 2  | Surface | Cobalt        | mg/kg | 8.99E+00 | 1.12E-05  | 5.46E-06 | 7.50E-10   |                   |
| 227  | 2  | Surface | Mercury       | mg/kg | 8.41E+00 | 1.04E-05  | 5.11E-06 | 2.09E-05   |                   |
| 227  | 2  | Surface | Nickel        | mg/kg | 1.25E+02 | 1.55E-04  | 6.07E-05 | 1.04E-08   |                   |
| 227  | 2  | Surface | PCB, Total    | mg/kg | 5.82E+00 | 7.23E-06  | 9.90E-06 | 8.19E-07   |                   |
| 227  | 2  | Surface | Total PAH     | mg/kg | 1.16E-01 | 1.44E-07  | 1.83E-07 | 7.14E-10   |                   |
| 227  | 2  | Surface | Uranium       | mg/kg | 1.51E+01 | 1.87E-05  | 9.15E-06 | 1.26E-09   |                   |
| 227  | 2  | Surface | Cobalt-60     | pCi/g | 1.37E-02 | 3.04E+01  |          | 2.04E-03   | 4.63E-02          |
| 227  | 2  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 3.49E+03  |          | 2.35E-01   | 5.32E+00          |
| 228  | 1  | Surface | Antimony      | mg/kg | 6.30E-01 | 7.82E-07  | 3.83E-07 | 5.26E-11   |                   |
| 228  | 1  | Surface | Cadmium       | mg/kg | 3.90E+00 | 4.84E-06  | 4.74E-08 | 3.25E-10   |                   |
| 228  | 1  | Surface | Chromium      | mg/kg | 1.89E+02 | 2.34E-04  | 1.15E-04 | 1.58E-08   |                   |
| 228  | 1  | Surface | Mercury       | mg/kg | 9.37E+00 | 1.16E-05  | 5.69E-06 | 2.33E-05   |                   |
| 228  | 1  | Surface | Nickel        | mg/kg | 7.92E+01 | 9.83E-05  | 3.85E-05 | 6.60E-09   |                   |
| 228  | 1  | Surface | Silver        | mg/kg | 1.16E+01 | 1.44E-05  | 5.65E-06 | 9.70E-10   |                   |
| 228  | 1  | Surface | Total PAH     | mg/kg | 6.69E-02 | 8.30E-08  | 1.06E-07 | 4.12E-10   |                   |
| 228  | 1  | Surface | Uranium       | mg/kg | 1.51E+01 | 1.88E-05  | 9.19E-06 | 1.26E-09   |                   |
| 228  | 1  | Surface | Neptunium-237 | pCi/g | 8.00E-01 | 1.78E+03  |          | 1.19E-01   | 2.70E+00          |
| 228  | 1  | Surface | Uranium-235   | pCi/g | 1.78E-01 | 3.95E+02  |          | 2.66E-02   | 6.01E-01          |
| 228  | 1  | Surface | Uranium-238   | pCi/g | 3.77E+00 | 8.37E+03  |          | 5.62E-01   | 1.27E+01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 76   | 1  | Surface | Barium            | mg/kg | 2.69E+02 | 3.34E-04  | 1.63E-04 | 2.24E-08   |                   |
| 76   | 1  | Surface | PCB, Total        | mg/kg | 2.60E-01 | 3.23E-07  | 4.42E-07 | 3.66E-08   |                   |
| 76   | 1  | Surface | Total PAH         | mg/kg | 1.76E+00 | 2.18E-06  | 2.78E-06 | 1.08E-08   |                   |
| 76   | 1  | Surface | Uranium-238       | pCi/g | 1.45E+00 | 3.22E+03  |          | 2.16E-01   | 4.90E+00          |
| 165  | 1  | Surface | Antimony          | mg/kg | 2.20E+00 | 2.73E-06  | 1.34E-06 | 1.84E-10   |                   |
| 165  | 1  | Surface | Arsenic           | mg/kg | 6.35E+01 | 7.88E-05  | 2.32E-05 | 5.30E-09   |                   |
| 165  | 1  | Surface | Barium            | mg/kg | 5.84E+02 | 7.25E-04  | 3.55E-04 | 4.87E-08   |                   |
| 165  | 1  | Surface | Beryllium         | mg/kg | 6.82E-01 | 8.47E-07  | 5.80E-08 | 5.69E-11   |                   |
| 165  | 1  | Surface | Chromium          | mg/kg | 3.74E+01 | 4.64E-05  | 2.27E-05 | 3.12E-09   |                   |
| 165  | 1  | Surface | Mercury           | mg/kg | 3.78E-01 | 4.69E-07  | 2.30E-07 | 9.40E-07   |                   |
| 165  | 1  | Surface | Naphthalene       | mg/kg | 1.61E+00 | 2.00E-06  | 4.90E-06 | 4.48E-06   |                   |
| 165  | 1  | Surface | Nickel            | mg/kg | 3.47E+01 | 4.31E-05  | 1.69E-05 | 2.89E-09   |                   |
| 165  | 1  | Surface | PCB, Total        | mg/kg | 8.27E+00 | 1.03E-05  | 1.41E-05 | 1.16E-06   |                   |
| 165  | 1  | Surface | Silver            | mg/kg | 3.09E+01 | 3.84E-05  | 1.50E-05 | 2.58E-09   |                   |
| 165  | 1  | Surface | Total PAH         | mg/kg | 1.87E+00 | 2.32E-06  | 2.95E-06 | 1.15E-08   |                   |
| 165  | 1  | Surface | Uranium           | mg/kg | 1.08E+02 | 1.33E-04  | 6.53E-05 | 8.97E-09   |                   |
| 165  | 1  | Surface | Cesium-137        | pCi/g | 3.47E+00 | 7.71E+03  |          | 5.18E-01   | 1.17E+01          |
| 165  | 1  | Surface | Neptunium-237     | pCi/g | 4.26E-01 | 9.46E+02  |          | 6.36E-02   | 1.44E+00          |
| 165  | 1  | Surface | Plutonium-239/240 | pCi/g | 2.81E+00 | 6.23E+03  |          | 4.18E-01   | 9.48E+00          |
| 165  | 1  | Surface | Thorium-230       | pCi/g | 6.02E+00 | 1.34E+04  |          | 8.98E-01   | 2.03E+01          |
| 165  | 1  | Surface | Uranium-234       | pCi/g | 5.76E+01 | 1.28E+05  |          | 8.59E+00   | 1.94E+02          |
| 165  | 1  | Surface | Uranium-235       | pCi/g | 2.05E+00 | 4.54E+03  |          | 3.05E-01   | 6.91E+00          |
| 165  | 1  | Surface | Uranium-238       | pCi/g | 6.41E+01 | 1.42E+05  |          | 9.56E+00   | 2.17E+02          |
| 170  | 1  | Surface | Neptunium-237     | pCi/g | 1.15E-01 | 2.55E+02  |          | 1.72E-02   | 3.89E-01          |
| 170  | 1  | Surface | Uranium-238       | pCi/g | 1.53E+00 | 3.40E+03  |          | 2.28E-01   | 5.17E+00          |
| 158  | 1  | Surface | Antimony          | mg/kg | 5.23E-01 | 6.49E-07  | 3.18E-07 | 4.36E-11   |                   |
| 158  | 1  | Surface | Arsenic           | mg/kg | 1.01E+01 | 1.26E-05  | 3.69E-06 | 8.44E-10   |                   |
| 158  | 1  | Surface | Barium            | mg/kg | 2.19E+02 | 2.71E-04  | 1.33E-04 | 1.82E-08   |                   |
| 158  | 1  | Surface | Chromium          | mg/kg | 6.07E+01 | 7.54E-05  | 3.69E-05 | 5.07E-09   |                   |
| 158  | 1  | Surface | Cobalt            | mg/kg | 1.62E+01 | 2.01E-05  | 9.86E-06 | 1.35E-09   |                   |
| 158  | 1  | Surface | Manganese         | mg/kg | 9.91E+02 | 1.23E-03  | 4.82E-04 | 8.26E-08   |                   |
| 158  | 1  | Surface | Mercury           | mg/kg | 1.05E+01 | 1.30E-05  | 6.36E-06 | 2.60E-05   |                   |
| 158  | 1  | Surface | Nickel            | mg/kg | 7.28E+01 | 9.04E-05  | 3.54E-05 | 6.08E-09   |                   |
| 158  | 1  | Surface | Thallium          | mg/kg | 3.12E-01 | 3.87E-07  | 1.90E-07 | 2.60E-11   |                   |
| 158  | 1  | Surface | Total PAH         | mg/kg | 3.69E-01 | 4.58E-07  | 5.83E-07 | 2.28E-09   |                   |
| 158  | 1  | Surface | Uranium           | mg/kg | 2.03E+01 | 2.52E-05  | 1.23E-05 | 1.69E-09   |                   |
| 158  | 1  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 3.62E+02  |          | 2.43E-02   | 5.51E-01          |
| 158  | 1  | Surface | Uranium-238       | pCi/g | 3.79E+00 | 8.41E+03  |          | 5.65E-01   | 1.28E+01          |
| 169  | 1  | Surface | Aluminum          | mg/kg | 1.42E+04 | 1.76E-02  | 8.63E-03 | 1.18E-06   |                   |
| 169  | 1  | Surface | Antimony          | mg/kg | 1.30E+00 | 1.61E-06  | 7.90E-07 | 1.08E-10   |                   |
| 169  | 1  | Surface | Arsenic           | mg/kg | 2.03E+01 | 2.52E-05  | 7.40E-06 | 1.69E-09   |                   |
| 169  | 1  | Surface | Beryllium         | mg/kg | 8.00E-01 | 9.93E-07  | 6.81E-08 | 6.67E-11   |                   |
| 169  | 1  | Surface | Chromium          | mg/kg | 2.15E+02 | 2.67E-04  | 1.31E-04 | 1.79E-08   |                   |
| 169  | 1  | Surface | Copper            | mg/kg | 3.74E+02 | 4.65E-04  | 2.27E-04 | 3.12E-08   |                   |
| 169  | 1  | Surface | Iron              | mg/kg | 4.16E+04 | 5.16E-02  | 2.53E-02 | 3.47E-06   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 169  | 1  | Surface | Mercury     | mg/kg | 7.87E+00 | 9.77E-06  | 4.78E-06 | 1.96E-05   |                   |
| 169  | 1  | Surface | Nickel      | mg/kg | 5.49E+02 | 6.81E-04  | 2.67E-04 | 4.58E-08   |                   |
| 169  | 1  | Surface | PCB, Total  | mg/kg | 1.00E+01 | 1.24E-05  | 1.70E-05 | 1.41E-06   |                   |
| 169  | 1  | Surface | Thallium    | mg/kg | 4.60E-01 | 5.71E-07  | 2.80E-07 | 3.84E-11   |                   |
| 169  | 1  | Surface | Total PAH   | mg/kg | 4.59E+00 | 5.69E-06  | 7.25E-06 | 2.83E-08   |                   |
| 169  | 1  | Surface | Uranium     | mg/kg | 5.03E+01 | 6.24E-05  | 3.06E-05 | 4.20E-09   |                   |
| 169  | 1  | Surface | Uranium-234 | pCi/g | 6.55E+00 | 1.45E+04  |          | 9.77E-01   | 2.21E+01          |
| 169  | 1  | Surface | Uranium-235 | pCi/g | 4.60E-01 | 1.02E+03  |          | 6.86E-02   | 1.55E+00          |
| 169  | 1  | Surface | Uranium-238 | pCi/g | 8.12E+00 | 1.80E+04  |          | 1.21E+00   | 2.74E+01          |
| 19   | 1  | Surface | Beryllium   | mg/kg | 1.10E+00 | 1.37E-06  | 9.36E-08 | 9.18E-11   |                   |
| 19   | 1  | Surface | Cadmium     | mg/kg | 1.20E+00 | 1.49E-06  | 1.46E-08 | 1.00E-10   |                   |
| 19   | 1  | Surface | Thallium    | mg/kg | 9.80E-01 | 1.22E-06  | 5.96E-07 | 8.17E-11   |                   |
| 19   | 1  | Surface | Total PAH   | mg/kg | 5.23E+00 | 6.49E-06  | 8.26E-06 | 3.22E-08   |                   |
| 138  | 1  | Surface | Antimony    | mg/kg | 5.39E+00 | 6.70E-06  | 3.28E-06 | 4.50E-10   |                   |
| 138  | 1  | Surface | Arsenic     | mg/kg | 1.06E+01 | 1.32E-05  | 3.87E-06 | 8.86E-10   |                   |
| 138  | 1  | Surface | Cadmium     | mg/kg | 5.42E+00 | 6.73E-06  | 6.59E-08 | 4.52E-10   |                   |
| 138  | 1  | Surface | Chromium    | mg/kg | 5.39E+01 | 6.68E-05  | 3.27E-05 | 4.49E-09   |                   |
| 138  | 1  | Surface | Mercury     | mg/kg | 1.30E+01 | 1.61E-05  | 7.89E-06 | 3.23E-05   |                   |
| 138  | 1  | Surface | Nickel      | mg/kg | 7.04E+01 | 8.73E-05  | 3.42E-05 | 5.87E-09   |                   |
| 138  | 1  | Surface | PCB, Total  | mg/kg | 5.00E-01 | 6.21E-07  | 8.51E-07 | 7.03E-08   |                   |
| 138  | 1  | Surface | Silver      | mg/kg | 1.01E+01 | 1.25E-05  | 4.91E-06 | 8.42E-10   |                   |
| 138  | 1  | Surface | Total PAH   | mg/kg | 9.74E-02 | 1.21E-07  | 1.54E-07 | 6.01E-10   |                   |
| 138  | 2  | Surface | Nickel      | mg/kg | 7.99E+01 | 9.91E-05  | 3.88E-05 | 6.66E-09   |                   |
| 138  | 2  | Surface | PCB, Total  | mg/kg | 9.20E-02 | 1.14E-07  | 1.57E-07 | 1.29E-08   |                   |
| 138  | 2  | Surface | Silver      | mg/kg | 1.04E+01 | 1.30E-05  | 5.08E-06 | 8.71E-10   |                   |
| 138  | 2  | Surface | Total PAH   | mg/kg | 3.84E-02 | 4.77E-08  | 6.07E-08 | 2.37E-10   |                   |
| 180  | 1  | Surface | Antimony    | mg/kg | 5.80E-01 | 7.20E-07  | 3.52E-07 | 4.84E-11   |                   |
| 180  | 1  | Surface | Arsenic     | mg/kg | 7.48E+01 | 9.28E-05  | 2.73E-05 | 6.24E-09   |                   |
| 180  | 1  | Surface | Chromium    | mg/kg | 5.54E+01 | 6.88E-05  | 3.37E-05 | 4.62E-09   |                   |
| 180  | 1  | Surface | Mercury     | mg/kg | 8.28E+00 | 1.03E-05  | 5.03E-06 | 2.06E-05   |                   |
| 180  | 1  | Surface | Nickel      | mg/kg | 8.77E+01 | 1.09E-04  | 4.26E-05 | 7.31E-09   |                   |
| 180  | 2  | Surface | Antimony    | mg/kg | 4.58E-01 | 5.68E-07  | 2.78E-07 | 3.82E-11   |                   |
| 180  | 2  | Surface | Arsenic     | mg/kg | 1.27E+01 | 1.57E-05  | 4.61E-06 | 1.06E-09   |                   |
| 180  | 2  | Surface | Chromium    | mg/kg | 4.46E+01 | 5.54E-05  | 2.71E-05 | 3.72E-09   |                   |
| 180  | 2  | Surface | Nickel      | mg/kg | 8.42E+01 | 1.04E-04  | 4.09E-05 | 7.02E-09   |                   |
| 180  | 2  | Surface | Total PAH   | mg/kg | 9.19E-02 | 1.14E-07  | 1.45E-07 | 5.67E-10   |                   |
| 180  | 3  | Surface | Arsenic     | mg/kg | 1.34E+01 | 1.66E-05  | 4.87E-06 | 1.11E-09   |                   |
| 180  | 3  | Surface | Chromium    | mg/kg | 4.69E+01 | 5.83E-05  | 2.85E-05 | 3.92E-09   |                   |
| 180  | 3  | Surface | Nickel      | mg/kg | 6.77E+01 | 8.40E-05  | 3.29E-05 | 5.65E-09   |                   |
| 180  | 3  | Surface | Silver      | mg/kg | 1.14E+01 | 1.42E-05  | 5.54E-06 | 9.51E-10   |                   |
| 180  | 4  | Surface | Arsenic     | mg/kg | 1.15E+01 | 1.43E-05  | 4.20E-06 | 9.62E-10   |                   |
| 180  | 4  | Surface | Barium      | mg/kg | 2.13E+02 | 2.64E-04  | 1.29E-04 | 1.78E-08   |                   |
| 180  | 4  | Surface | Beryllium   | mg/kg | 1.60E+00 | 1.99E-06  | 1.36E-07 | 1.33E-10   |                   |
| 180  | 4  | Surface | Chromium    | mg/kg | 6.00E+01 | 7.45E-05  | 3.65E-05 | 5.01E-09   |                   |
| 180  | 4  | Surface | Iron        | mg/kg | 1.54E+04 | 1.91E-02  | 9.34E-03 | 1.28E-06   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC      | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-----------|-------|----------|-----------|----------|------------|-------------------|
| 180  | 4  | Surface | Manganese | mg/kg | 7.09E+02 | 8.80E-04  | 3.45E-04 | 5.91E-08   |                   |
| 180  | 4  | Surface | Nickel    | mg/kg | 6.46E+01 | 8.02E-05  | 3.14E-05 | 5.39E-09   |                   |
| 180  | 4  | Surface | Silver    | mg/kg | 9.68E+00 | 1.20E-05  | 4.71E-06 | 8.07E-10   |                   |
| 180  | 4  | Surface | Total PAH | mg/kg | 2.15E-02 | 2.67E-08  | 3.40E-08 | 1.33E-10   |                   |
| 180  | 4  | Surface | Vanadium  | mg/kg | 4.85E+01 | 6.02E-05  | 1.53E-05 | 4.05E-09   |                   |
| 181  | 1  | Surface | Chromium  | mg/kg | 2.29E+01 | 2.84E-05  | 1.39E-05 | 1.91E-09   |                   |
| 181  | 1  | Surface | Thallium  | mg/kg | 3.50E+00 | 4.34E-06  | 2.13E-06 | 2.92E-10   |                   |
| 181  | 1  | Surface | Total PAH | mg/kg | 3.43E-02 | 4.26E-08  | 5.42E-08 | 2.12E-10   |                   |
| 195  | 1  | Surface | Chromium  | mg/kg | 6.33E+01 | 7.85E-05  | 3.84E-05 | 5.28E-09   |                   |
| 195  | 1  | Surface | Nickel    | mg/kg | 7.02E+01 | 8.71E-05  | 3.41E-05 | 5.86E-09   |                   |
| 195  | 1  | Surface | Silver    | mg/kg | 9.37E+00 | 1.16E-05  | 4.56E-06 | 7.82E-10   |                   |
| 195  | 2  | Surface | Chromium  | mg/kg | 4.52E+01 | 5.61E-05  | 2.75E-05 | 3.77E-09   |                   |
| 195  | 2  | Surface | Silver    | mg/kg | 9.48E+00 | 1.18E-05  | 4.61E-06 | 7.91E-10   |                   |
| 195  | 2  | Surface | Total PAH | mg/kg | 2.68E-02 | 3.33E-08  | 4.23E-08 | 1.65E-10   |                   |
| 195  | 3  | Surface | Chromium  | mg/kg | 5.03E+01 | 6.24E-05  | 3.06E-05 | 4.20E-09   |                   |
| 195  | 3  | Surface | Nickel    | mg/kg | 5.22E+01 | 6.47E-05  | 2.54E-05 | 4.35E-09   |                   |
| 195  | 3  | Surface | Total PAH | mg/kg | 4.06E-02 | 5.04E-08  | 6.41E-08 | 2.50E-10   |                   |
| 195  | 4  | Surface | Chromium  | mg/kg | 5.29E+01 | 6.57E-05  | 3.21E-05 | 4.41E-09   |                   |
| 195  | 4  | Surface | Nickel    | mg/kg | 6.23E+01 | 7.73E-05  | 3.03E-05 | 5.20E-09   |                   |
| 195  | 5  | Surface | Chromium  | mg/kg | 5.74E+01 | 7.13E-05  | 3.49E-05 | 4.79E-09   |                   |
| 195  | 5  | Surface | Nickel    | mg/kg | 8.11E+01 | 1.01E-04  | 3.94E-05 | 6.77E-09   |                   |
| 195  | 5  | Surface | Total PAH | mg/kg | 2.40E-02 | 2.98E-08  | 3.79E-08 | 1.48E-10   |                   |
| 195  | 6  | Surface | Chromium  | mg/kg | 4.45E+01 | 5.53E-05  | 2.71E-05 | 3.72E-09   |                   |
| 195  | 6  | Surface | Nickel    | mg/kg | 8.71E+01 | 1.08E-04  | 4.23E-05 | 7.27E-09   |                   |
| 195  | 6  | Surface | Total PAH | mg/kg | 2.48E-01 | 3.07E-07  | 3.91E-07 | 1.53E-09   |                   |
| 195  | 7  | Surface | Chromium  | mg/kg | 4.93E+01 | 6.11E-05  | 2.99E-05 | 4.11E-09   |                   |
| 195  | 7  | Surface | Silver    | mg/kg | 8.06E+00 | 1.00E-05  | 3.92E-06 | 6.72E-10   |                   |
| 195  | 8  | Surface | Arsenic   | mg/kg | 1.16E+01 | 1.43E-05  | 4.22E-06 | 9.64E-10   |                   |
| 195  | 8  | Surface | Beryllium | mg/kg | 7.40E-01 | 9.19E-07  | 6.30E-08 | 6.17E-11   |                   |
| 195  | 8  | Surface | Chromium  | mg/kg | 6.79E+01 | 8.43E-05  | 4.13E-05 | 5.67E-09   |                   |
| 195  | 8  | Surface | Cobalt    | mg/kg | 1.82E+01 | 2.26E-05  | 1.11E-05 | 1.52E-09   |                   |
| 195  | 8  | Surface | Nickel    | mg/kg | 7.01E+01 | 8.70E-05  | 3.41E-05 | 5.85E-09   |                   |
| 195  | 8  | Surface | Total PAH | mg/kg | 2.16E-01 | 2.68E-07  | 3.41E-07 | 1.33E-09   |                   |
| 195  | 8  | Surface | Vanadium  | mg/kg | 4.04E+01 | 5.01E-05  | 1.28E-05 | 3.37E-09   |                   |
| 195  | 9  | Surface | Chromium  | mg/kg | 6.08E+01 | 7.55E-05  | 3.69E-05 | 5.07E-09   |                   |
| 195  | 9  | Surface | Nickel    | mg/kg | 7.93E+01 | 9.84E-05  | 3.85E-05 | 6.61E-09   |                   |
| 195  | 10 | Surface | Chromium  | mg/kg | 4.51E+01 | 5.59E-05  | 2.74E-05 | 3.76E-09   |                   |
| 195  | 10 | Surface | Nickel    | mg/kg | 7.40E+01 | 9.19E-05  | 3.60E-05 | 6.17E-09   |                   |
| 195  | 10 | Surface | Silver    | mg/kg | 1.31E+01 | 1.63E-05  | 6.37E-06 | 1.09E-09   |                   |
| 195  | 11 | Surface | Aluminum  | mg/kg | 2.81E+04 | 3.49E-02  | 1.71E-02 | 2.34E-06   |                   |
| 195  | 11 | Surface | Arsenic   | mg/kg | 1.35E+01 | 1.67E-05  | 4.91E-06 | 1.12E-09   |                   |
| 195  | 11 | Surface | Barium    | mg/kg | 4.53E+02 | 5.62E-04  | 2.75E-04 | 3.78E-08   |                   |
| 195  | 11 | Surface | Chromium  | mg/kg | 5.05E+01 | 6.27E-05  | 3.07E-05 | 4.21E-09   |                   |
| 195  | 11 | Surface | Cobalt    | mg/kg | 2.77E+01 | 3.44E-05  | 1.68E-05 | 2.31E-09   |                   |
| 195  | 11 | Surface | Iron      | mg/kg | 1.97E+04 | 2.45E-02  | 1.20E-02 | 1.64E-06   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 195  | 11 | Surface | Nickel        | mg/kg | 6.77E+01 | 8.40E-05  | 3.29E-05 | 5.65E-09   |                   |
| 195  | 11 | Surface | Thallium      | mg/kg | 6.60E-01 | 8.19E-07  | 4.01E-07 | 5.51E-11   |                   |
| 195  | 11 | Surface | Vanadium      | mg/kg | 7.97E+01 | 9.89E-05  | 2.52E-05 | 6.65E-09   |                   |
| 195  | 12 | Surface | Beryllium     | mg/kg | 7.50E-01 | 9.31E-07  | 6.38E-08 | 6.26E-11   |                   |
| 195  | 12 | Surface | Chromium      | mg/kg | 7.04E+01 | 8.74E-05  | 4.28E-05 | 5.87E-09   |                   |
| 195  | 12 | Surface | Nickel        | mg/kg | 6.78E+01 | 8.41E-05  | 3.29E-05 | 5.65E-09   |                   |
| 195  | 13 | Surface | Chromium      | mg/kg | 6.55E+01 | 8.13E-05  | 3.98E-05 | 5.46E-09   |                   |
| 195  | 13 | Surface | Nickel        | mg/kg | 6.91E+01 | 8.57E-05  | 3.36E-05 | 5.76E-09   |                   |
| 195  | 14 | Surface | Chromium      | mg/kg | 5.94E+01 | 7.38E-05  | 3.61E-05 | 4.96E-09   |                   |
| 195  | 14 | Surface | Nickel        | mg/kg | 7.04E+01 | 8.73E-05  | 3.42E-05 | 5.87E-09   |                   |
| 195  | 15 | Surface | Chromium      | mg/kg | 4.82E+01 | 5.98E-05  | 2.93E-05 | 4.02E-09   |                   |
| 195  | 16 | Surface | Chromium      | mg/kg | 4.45E+01 | 5.52E-05  | 2.70E-05 | 3.71E-09   |                   |
| 195  | 16 | Surface | Nickel        | mg/kg | 8.16E+01 | 1.01E-04  | 3.97E-05 | 6.80E-09   |                   |
| 195  | 17 | Surface | Chromium      | mg/kg | 8.22E+01 | 1.02E-04  | 4.99E-05 | 6.85E-09   |                   |
| 195  | 17 | Surface | Mercury       | mg/kg | 4.17E-01 | 5.18E-07  | 2.53E-07 | 1.04E-06   |                   |
| 195  | 17 | Surface | Nickel        | mg/kg | 5.93E+01 | 7.37E-05  | 2.88E-05 | 4.95E-09   |                   |
| 195  | 17 | Surface | PCB, Total    | mg/kg | 7.40E-01 | 9.19E-07  | 1.26E-06 | 1.04E-07   |                   |
| 195  | 17 | Surface | Silver        | mg/kg | 1.01E+01 | 1.26E-05  | 4.93E-06 | 8.46E-10   |                   |
| 195  | 17 | Surface | Thallium      | mg/kg | 5.40E-01 | 6.70E-07  | 3.28E-07 | 4.50E-11   |                   |
| 195  | 17 | Surface | Total PAH     | mg/kg | 3.16E-01 | 3.92E-07  | 4.99E-07 | 1.95E-09   |                   |
| 195  | 17 | Surface | Uranium-235   | pCi/g | 1.32E-01 | 2.93E+02  |          | 1.97E-02   | 4.46E-01          |
| 195  | 17 | Surface | Uranium-238   | pCi/g | 2.48E+00 | 5.51E+03  |          | 3.70E-01   | 8.38E+00          |
| 486  | 1  | Surface | Cesium-137    | pCi/g | 1.71E+00 | 3.80E+03  |          | 2.55E-01   | 5.78E+00          |
| 487  | 1  | Surface | Cesium-137    | pCi/g | 1.38E+00 | 3.06E+03  |          | 2.06E-01   | 4.66E+00          |
| 492  | 1  | Surface | Arsenic       | mg/kg | 1.47E+01 | 1.82E-05  | 5.36E-06 | 1.23E-09   |                   |
| 492  | 1  | Surface | Beryllium     | mg/kg | 1.04E+01 | 1.29E-05  | 8.85E-07 | 8.68E-10   |                   |
| 492  | 1  | Surface | Cadmium       | mg/kg | 3.14E+00 | 3.90E-06  | 3.82E-08 | 2.62E-10   |                   |
| 492  | 1  | Surface | Chromium      | mg/kg | 1.04E+03 | 1.29E-03  | 6.32E-04 | 8.68E-08   |                   |
| 492  | 1  | Surface | PCB, Total    | mg/kg | 4.41E+01 | 5.47E-05  | 7.50E-05 | 6.20E-06   |                   |
| 492  | 1  | Surface | Uranium       | mg/kg | 1.77E+03 | 2.20E-03  | 1.08E-03 | 1.48E-07   |                   |
| 492  | 1  | Surface | Vanadium      | mg/kg | 4.32E+01 | 5.36E-05  | 1.37E-05 | 3.60E-09   |                   |
| 492  | 1  | Surface | Cobalt-60     | pCi/g | 9.63E-03 | 2.14E+01  |          | 1.44E-03   | 3.25E-02          |
| 492  | 1  | Surface | Neptunium-237 | pCi/g | 2.09E-01 | 4.64E+02  |          | 3.12E-02   | 7.06E-01          |
| 492  | 1  | Surface | Uranium-234   | pCi/g | 5.39E+01 | 1.20E+05  |          | 8.04E+00   | 1.82E+02          |
| 492  | 1  | Surface | Uranium-235   | pCi/g | 5.72E+00 | 1.27E+04  |          | 8.53E-01   | 1.93E+01          |
| 492  | 1  | Surface | Uranium-238   | pCi/g | 3.83E+02 | 8.50E+05  |          | 5.71E+01   | 1.29E+03          |
| 493  | 1  | Surface | Aluminum      | mg/kg | 1.44E+04 | 1.79E-02  | 8.75E-03 | 1.20E-06   |                   |
| 493  | 1  | Surface | Barium        | mg/kg | 4.04E+02 | 5.01E-04  | 2.46E-04 | 3.37E-08   |                   |
| 493  | 1  | Surface | Beryllium     | mg/kg | 9.91E-01 | 1.23E-06  | 8.43E-08 | 8.27E-11   |                   |
| 493  | 1  | Surface | Chromium      | mg/kg | 6.61E+01 | 8.20E-05  | 4.02E-05 | 5.51E-09   |                   |
| 493  | 1  | Surface | Cobalt        | mg/kg | 3.79E+01 | 4.70E-05  | 2.30E-05 | 3.16E-09   |                   |
| 493  | 1  | Surface | Manganese     | mg/kg | 3.55E+03 | 4.41E-03  | 1.73E-03 | 2.96E-07   |                   |
| 493  | 1  | Surface | Mercury       | mg/kg | 2.60E-01 | 3.23E-07  | 1.58E-07 | 6.47E-07   |                   |
| 493  | 1  | Surface | Nickel        | mg/kg | 2.13E+02 | 2.64E-04  | 1.04E-04 | 1.78E-08   |                   |
| 493  | 1  | Surface | PCB, Total    | mg/kg | 2.60E-01 | 3.23E-07  | 4.42E-07 | 3.66E-08   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 493  | 1  | Surface | Total PAH     | mg/kg | 5.00E-01 | 6.21E-07  | 7.90E-07 | 3.08E-09   |                   |
| 493  | 1  | Surface | Vanadium      | mg/kg | 4.05E+01 | 5.03E-05  | 1.28E-05 | 3.38E-09   |                   |
| 493  | 1  | Surface | Cobalt-60     | pCi/g | 1.36E-02 | 3.02E+01  |          | 2.03E-03   | 4.60E-02          |
| 493  | 1  | Surface | Neptunium-237 | pCi/g | 1.22E-01 | 2.71E+02  |          | 1.82E-02   | 4.12E-01          |
| 493  | 1  | Surface | Uranium-235   | pCi/g | 1.65E-01 | 3.66E+02  |          | 2.46E-02   | 5.58E-01          |
| 493  | 1  | Surface | Uranium-238   | pCi/g | 5.50E+00 | 1.22E+04  |          | 8.21E-01   | 1.86E+01          |
| 517  | 1  | Surface | Beryllium     | mg/kg | 7.39E-01 | 9.17E-07  | 6.29E-08 | 6.16E-11   |                   |
| 517  | 1  | Surface | Chromium      | mg/kg | 4.91E+01 | 6.09E-05  | 2.98E-05 | 4.10E-09   |                   |
| 517  | 1  | Surface | Nickel        | mg/kg | 1.72E+02 | 2.13E-04  | 8.36E-05 | 1.43E-08   |                   |
| 517  | 1  | Surface | PCB, Total    | mg/kg | 5.00E-01 | 6.21E-07  | 8.51E-07 | 7.03E-08   |                   |
| 517  | 1  | Surface | Cobalt-60     | pCi/g | 6.39E-03 | 1.42E+01  |          | 9.53E-04   | 2.16E-02          |
| 517  | 1  | Surface | Neptunium-237 | pCi/g | 1.07E+00 | 2.38E+03  |          | 1.60E-01   | 3.62E+00          |
| 517  | 1  | Surface | Uranium-235   | pCi/g | 1.60E-01 | 3.55E+02  |          | 2.39E-02   | 5.41E-01          |
| 517  | 1  | Surface | Uranium-238   | pCi/g | 3.89E+00 | 8.64E+03  |          | 5.80E-01   | 1.31E+01          |
| 541  | 1  | Surface | Aluminum      | mg/kg | 1.43E+04 | 1.77E-02  | 8.68E-03 | 1.19E-06   |                   |
| 541  | 1  | Surface | Barium        | mg/kg | 1.28E+02 | 1.59E-04  | 7.78E-05 | 1.07E-08   |                   |
| 541  | 1  | Surface | Beryllium     | mg/kg | 6.98E-01 | 8.66E-07  | 5.94E-08 | 5.82E-11   |                   |
| 541  | 1  | Surface | Cadmium       | mg/kg | 1.68E+00 | 2.09E-06  | 2.04E-08 | 1.40E-10   |                   |
| 541  | 1  | Surface | Chromium      | mg/kg | 8.24E+02 | 1.02E-03  | 5.01E-04 | 6.87E-08   |                   |
| 541  | 1  | Surface | Iron          | mg/kg | 1.60E+04 | 1.98E-02  | 9.70E-03 | 1.33E-06   |                   |
| 541  | 1  | Surface | Mercury       | mg/kg | 9.81E-02 | 1.22E-07  | 5.96E-08 | 2.44E-07   |                   |
| 541  | 1  | Surface | Naphthalene   | mg/kg | 6.55E-01 | 8.13E-07  | 1.99E-06 | 1.82E-06   |                   |
| 541  | 1  | Surface | Nickel        | mg/kg | 1.52E+01 | 1.89E-05  | 7.41E-06 | 1.27E-09   |                   |
| 541  | 1  | Surface | PCB, Total    | mg/kg | 6.06E+01 | 7.52E-05  | 1.03E-04 | 8.52E-06   |                   |
| 541  | 1  | Surface | Total PAH     | mg/kg | 2.33E+00 | 2.89E-06  | 3.68E-06 | 1.44E-08   |                   |
| 541  | 1  | Surface | Uranium       | mg/kg | 6.38E+03 | 7.92E-03  | 3.88E-03 | 5.32E-07   |                   |
| 541  | 1  | Surface | Vanadium      | mg/kg | 3.04E+01 | 3.78E-05  | 9.62E-06 | 2.54E-09   |                   |
| 541  | 1  | Surface | Americium-241 | pCi/g | 7.53E+00 | 1.67E+04  |          | 1.12E+00   | 2.55E+01          |
| 541  | 1  | Surface | Cesium-137    | pCi/g | 9.58E-01 | 2.13E+03  |          | 1.43E-01   | 3.24E+00          |
| 541  | 1  | Surface | Cobalt-60     | pCi/g | 1.01E-02 | 2.24E+01  |          | 1.51E-03   | 3.41E-02          |
| 541  | 1  | Surface | Neptunium-237 | pCi/g | 5.52E-02 | 1.23E+02  |          | 8.24E-03   | 1.87E-01          |
| 541  | 1  | Surface | Uranium-234   | pCi/g | 1.43E+02 | 3.17E+05  |          | 2.13E+01   | 4.83E+02          |
| 541  | 1  | Surface | Uranium-235   | pCi/g | 1.76E+01 | 3.90E+04  |          | 2.62E+00   | 5.93E+01          |
| 541  | 1  | Surface | Uranium-238   | pCi/g | 1.00E+03 | 2.22E+06  |          | 1.49E+02   | 3.38E+03          |
| 561  | 1  | Surface | Antimony      | mg/kg | 9.36E-01 | 1.16E-06  | 5.69E-07 | 7.81E-11   |                   |
| 561  | 1  | Surface | Arsenic       | mg/kg | 1.66E+01 | 2.05E-05  | 6.03E-06 | 1.38E-09   |                   |
| 561  | 1  | Surface | Barium        | mg/kg | 1.40E+02 | 1.74E-04  | 8.52E-05 | 1.17E-08   |                   |
| 561  | 1  | Surface | Beryllium     | mg/kg | 6.85E-01 | 8.50E-07  | 5.83E-08 | 5.71E-11   |                   |
| 561  | 1  | Surface | Chromium      | mg/kg | 8.58E+01 | 1.06E-04  | 5.21E-05 | 7.16E-09   |                   |
| 561  | 1  | Surface | Cobalt        | mg/kg | 1.07E+01 | 1.33E-05  | 6.50E-06 | 8.92E-10   |                   |
| 561  | 1  | Surface | Iron          | mg/kg | 2.05E+04 | 2.54E-02  | 1.24E-02 | 1.71E-06   |                   |
| 561  | 1  | Surface | Manganese     | mg/kg | 1.61E+03 | 2.00E-03  | 7.82E-04 | 1.34E-07   |                   |
| 561  | 1  | Surface | PCB, Total    | mg/kg | 1.04E+00 | 1.29E-06  | 1.77E-06 | 1.47E-07   |                   |
| 561  | 1  | Surface | Thallium      | mg/kg | 3.33E-01 | 4.13E-07  | 2.02E-07 | 2.78E-11   |                   |
| 561  | 1  | Surface | Total PAH     | mg/kg | 3.94E-01 | 4.89E-07  | 6.23E-07 | 2.43E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 561  | 1  | Surface | Uranium           | mg/kg | 2.65E+02 | 3.29E-04  | 1.61E-04 | 2.21E-08   |                   |
| 561  | 1  | Surface | Vanadium          | mg/kg | 3.76E+01 | 4.67E-05  | 1.19E-05 | 3.14E-09   |                   |
| 561  | 1  | Surface | Cobalt-60         | pCi/g | 7.06E-02 | 1.57E+02  |          | 1.05E-02   | 2.39E-01          |
| 561  | 1  | Surface | Neptunium-237     | pCi/g | 2.71E-02 | 6.02E+01  |          | 4.04E-03   | 9.16E-02          |
| 561  | 1  | Surface | Uranium-234       | pCi/g | 7.84E+00 | 1.74E+04  |          | 1.17E+00   | 2.65E+01          |
| 561  | 1  | Surface | Uranium-235       | pCi/g | 1.37E+00 | 3.03E+03  |          | 2.04E-01   | 4.62E+00          |
| 561  | 1  | Surface | Uranium-238       | pCi/g | 1.07E+02 | 2.36E+05  |          | 1.59E+01   | 3.60E+02          |
| 561  | 2  | Surface | Antimony          | mg/kg | 5.33E+00 | 6.62E-06  | 3.24E-06 | 4.45E-10   |                   |
| 561  | 2  | Surface | Arsenic           | mg/kg | 1.30E+01 | 1.61E-05  | 4.74E-06 | 1.09E-09   |                   |
| 561  | 2  | Surface | Beryllium         | mg/kg | 6.34E-01 | 7.87E-07  | 5.39E-08 | 5.29E-11   |                   |
| 561  | 2  | Surface | Cadmium           | mg/kg | 4.13E-01 | 5.13E-07  | 5.02E-09 | 3.45E-11   |                   |
| 561  | 2  | Surface | Chromium          | mg/kg | 2.88E+02 | 3.58E-04  | 1.75E-04 | 2.40E-08   |                   |
| 561  | 2  | Surface | Cobalt            | mg/kg | 1.14E+01 | 1.42E-05  | 6.93E-06 | 9.51E-10   |                   |
| 561  | 2  | Surface | Manganese         | mg/kg | 1.12E+03 | 1.38E-03  | 5.42E-04 | 9.30E-08   |                   |
| 561  | 2  | Surface | PCB, Total        | mg/kg | 1.64E+01 | 2.04E-05  | 2.79E-05 | 2.31E-06   |                   |
| 561  | 2  | Surface | Thallium          | mg/kg | 4.09E-01 | 5.08E-07  | 2.49E-07 | 3.41E-11   |                   |
| 561  | 2  | Surface | Total PAH         | mg/kg | 2.43E+00 | 3.02E-06  | 3.84E-06 | 1.50E-08   |                   |
| 561  | 2  | Surface | Uranium           | mg/kg | 1.38E+03 | 1.72E-03  | 8.40E-04 | 1.15E-07   |                   |
| 561  | 2  | Surface | Vanadium          | mg/kg | 3.46E+01 | 4.29E-05  | 1.09E-05 | 2.88E-09   |                   |
| 561  | 2  | Surface | Cesium-137        | pCi/g | 4.09E-01 | 9.08E+02  |          | 6.10E-02   | 1.38E+00          |
| 561  | 2  | Surface | Cobalt-60         | pCi/g | 2.76E-02 | 6.13E+01  |          | 4.12E-03   | 9.33E-02          |
| 561  | 2  | Surface | Neptunium-237     | pCi/g | 4.71E-02 | 1.05E+02  |          | 7.03E-03   | 1.59E-01          |
| 561  | 2  | Surface | Uranium-234       | pCi/g | 4.06E+01 | 9.02E+04  |          | 6.06E+00   | 1.37E+02          |
| 561  | 2  | Surface | Uranium-235       | pCi/g | 7.09E+00 | 1.57E+04  |          | 1.06E+00   | 2.40E+01          |
| 561  | 2  | Surface | Uranium-238       | pCi/g | 4.00E+02 | 8.89E+05  |          | 5.97E+01   | 1.35E+03          |
| 562  | 1  | Surface | Uranium           | mg/kg | 8.73E+01 | 1.08E-04  | 5.31E-05 | 7.28E-09   |                   |
| 562  | 1  | Surface | Uranium-238       | pCi/g | 2.73E+00 | 6.06E+03  |          | 4.07E-01   | 9.22E+00          |
| 562  | 2  | Surface | PCB, Total        | mg/kg | 1.58E+00 | 1.96E-06  | 2.69E-06 | 2.22E-07   |                   |
| 562  | 2  | Surface | Protactinium-234m | pCi/g | 2.76E+02 | 6.12E+05  |          | 4.11E+01   | 9.32E+02          |
| 562  | 2  | Surface | Uranium-234       | pCi/g | 5.34E+01 | 1.19E+05  |          | 7.97E+00   | 1.80E+02          |
| 562  | 2  | Surface | Uranium-235       | pCi/g | 8.96E+00 | 1.99E+04  |          | 1.34E+00   | 3.03E+01          |
| 562  | 2  | Surface | Uranium-238       | pCi/g | 5.81E+02 | 1.29E+06  |          | 8.67E+01   | 1.96E+03          |
| 562  | 3  | Surface | Chromium          | mg/kg | 3.82E+01 | 4.74E-05  | 2.32E-05 | 3.18E-09   |                   |
| 562  | 3  | Surface | PCB, Total        | mg/kg | 2.40E-01 | 2.98E-07  | 4.08E-07 | 3.38E-08   |                   |
| 562  | 3  | Surface | Total PAH         | mg/kg | 2.20E-01 | 2.73E-07  | 3.48E-07 | 1.36E-09   |                   |
| 562  | 3  | Surface | Uranium           | mg/kg | 5.89E+01 | 7.31E-05  | 3.58E-05 | 4.91E-09   |                   |
| 562  | 3  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 3.62E+02  |          | 2.43E-02   | 5.51E-01          |
| 562  | 3  | Surface | Uranium-238       | pCi/g | 1.09E+01 | 2.42E+04  |          | 1.63E+00   | 3.68E+01          |
| 562  | 4  | Surface | Chromium          | mg/kg | 4.67E+01 | 5.79E-05  | 2.84E-05 | 3.89E-09   |                   |
| 562  | 4  | Surface | Uranium           | mg/kg | 2.10E+01 | 2.61E-05  | 1.28E-05 | 1.75E-09   |                   |
| 562  | 4  | Surface | Uranium-238       | pCi/g | 2.24E+00 | 4.97E+03  |          | 3.34E-01   | 7.57E+00          |
| 562  | 5  | Surface | Chromium          | mg/kg | 1.53E+02 | 1.90E-04  | 9.30E-05 | 1.28E-08   |                   |
| 562  | 5  | Surface | PCB, Total        | mg/kg | 9.50E-01 | 1.18E-06  | 1.62E-06 | 1.34E-07   |                   |
| 562  | 5  | Surface | Total PAH         | mg/kg | 7.05E-02 | 8.75E-08  | 1.11E-07 | 4.35E-10   |                   |
| 562  | 5  | Surface | Uranium           | mg/kg | 2.08E+02 | 2.58E-04  | 1.26E-04 | 1.74E-08   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 562  | 5  | Surface | Uranium-234       | pCi/g | 8.57E+00 | 1.90E+04  |          | 1.28E+00   | 2.90E+01          |
| 562  | 5  | Surface | Uranium-235       | pCi/g | 9.50E-01 | 2.11E+03  |          | 1.42E-01   | 3.21E+00          |
| 562  | 5  | Surface | Uranium-238       | pCi/g | 6.24E+01 | 1.39E+05  |          | 9.31E+00   | 2.11E+02          |
| 562  | 6  | Surface | Protactinium-234m | pCi/g | 3.66E+02 | 8.13E+05  |          | 5.46E+01   | 1.24E+03          |
| 562  | 6  | Surface | Uranium-234       | pCi/g | 4.01E+01 | 8.90E+04  |          | 5.98E+00   | 1.36E+02          |
| 562  | 6  | Surface | Uranium-235       | pCi/g | 6.81E+00 | 1.51E+04  |          | 1.02E+00   | 2.30E+01          |
| 562  | 6  | Surface | Uranium-238       | pCi/g | 3.62E+02 | 8.03E+05  |          | 5.40E+01   | 1.22E+03          |
| 563  | 1  | Surface | Cadmium           | mg/kg | 8.96E-01 | 1.11E-06  | 1.09E-08 | 7.47E-11   |                   |
| 563  | 1  | Surface | Chromium          | mg/kg | 2.85E+02 | 3.54E-04  | 1.73E-04 | 2.38E-08   |                   |
| 563  | 1  | Surface | PCB, Total        | mg/kg | 7.40E-01 | 9.19E-07  | 1.26E-06 | 1.04E-07   |                   |
| 563  | 1  | Surface | Uranium           | mg/kg | 1.51E+01 | 1.87E-05  | 9.17E-06 | 1.26E-09   |                   |
| 563  | 1  | Surface | Uranium-238       | pCi/g | 2.76E+00 | 6.13E+03  |          | 4.12E-01   | 9.33E+00          |
| 563  | 2  | Surface | Cesium-137        | pCi/g | 6.47E-01 | 1.44E+03  |          | 9.65E-02   | 2.19E+00          |
| 563  | 2  | Surface | Uranium-238       | pCi/g | 1.49E+00 | 3.31E+03  |          | 2.22E-01   | 5.03E+00          |
| 564  | 1  | Surface | Arsenic           | mg/kg | 4.30E+01 | 5.34E-05  | 1.57E-05 | 3.59E-09   |                   |
| 564  | 1  | Surface | Beryllium         | mg/kg | 2.12E+00 | 2.63E-06  | 1.80E-07 | 1.77E-10   |                   |
| 564  | 1  | Surface | Cadmium           | mg/kg | 1.96E+00 | 2.43E-06  | 2.38E-08 | 1.63E-10   |                   |
| 564  | 1  | Surface | Chromium          | mg/kg | 7.49E+01 | 9.30E-05  | 4.55E-05 | 6.25E-09   |                   |
| 564  | 1  | Surface | Iron              | mg/kg | 3.66E+04 | 4.54E-02  | 2.22E-02 | 3.05E-06   |                   |
| 564  | 1  | Surface | Mercury           | mg/kg | 2.30E-01 | 2.85E-07  | 1.40E-07 | 5.72E-07   |                   |
| 564  | 1  | Surface | Nickel            | mg/kg | 2.24E+01 | 2.78E-05  | 1.09E-05 | 1.87E-09   |                   |
| 564  | 1  | Surface | PCB, Total        | mg/kg | 1.93E+00 | 2.40E-06  | 3.28E-06 | 2.71E-07   |                   |
| 564  | 1  | Surface | Thallium          | mg/kg | 2.36E+00 | 2.93E-06  | 1.43E-06 | 1.97E-10   |                   |
| 564  | 1  | Surface | Uranium           | mg/kg | 5.83E+01 | 7.24E-05  | 3.54E-05 | 4.86E-09   |                   |
| 564  | 1  | Surface | Vanadium          | mg/kg | 8.06E+01 | 1.00E-04  | 2.55E-05 | 6.72E-09   |                   |
| 564  | 1  | Surface | Cesium-137        | pCi/g | 6.20E-01 | 1.38E+03  |          | 9.25E-02   | 2.09E+00          |
| 564  | 1  | Surface | Thorium-230       | pCi/g | 5.01E+00 | 1.11E+04  |          | 7.47E-01   | 1.69E+01          |
| 564  | 1  | Surface | Uranium-234       | pCi/g | 6.93E+00 | 1.54E+04  |          | 1.03E+00   | 2.34E+01          |
| 564  | 1  | Surface | Uranium-235       | pCi/g | 3.87E-01 | 8.59E+02  |          | 5.77E-02   | 1.31E+00          |
| 564  | 1  | Surface | Uranium-238       | pCi/g | 8.33E+00 | 1.85E+04  |          | 1.24E+00   | 2.81E+01          |
| 567  | 3  | Surface | Chromium          | mg/kg | 3.79E+01 | 4.70E-05  | 2.30E-05 | 3.16E-09   |                   |
| 567  | 4  | Surface | Aluminum          | mg/kg | 1.25E+04 | 1.55E-02  | 7.61E-03 | 1.04E-06   |                   |
| 567  | 4  | Surface | Chromium          | mg/kg | 1.63E+01 | 2.02E-05  | 9.91E-06 | 1.36E-09   |                   |
| 567  | 4  | Surface | Uranium-238       | pCi/g | 1.05E+00 | 2.33E+03  |          | 1.57E-01   | 3.54E+00          |
| 14   | 1  | Surface | Arsenic           | mg/kg | 1.10E+01 | 1.36E-05  | 4.00E-06 | 9.16E-10   |                   |
| 14   | 1  | Surface | Chromium          | mg/kg | 6.36E+01 | 7.89E-05  | 3.86E-05 | 5.30E-09   |                   |
| 14   | 1  | Surface | Iron              | mg/kg | 1.89E+04 | 2.34E-02  | 1.15E-02 | 1.57E-06   |                   |
| 14   | 1  | Surface | Nickel            | mg/kg | 1.40E+02 | 1.73E-04  | 6.79E-05 | 1.17E-08   |                   |
| 14   | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 6.21E-07  | 8.51E-07 | 7.03E-08   |                   |
| 14   | 1  | Surface | Silver            | mg/kg | 1.67E+01 | 2.07E-05  | 8.11E-06 | 1.39E-09   |                   |
| 14   | 1  | Surface | Uranium           | mg/kg | 7.21E+01 | 8.95E-05  | 4.38E-05 | 6.02E-09   |                   |
| 14   | 1  | Surface | Americium-241     | pCi/g | 1.27E+00 | 2.81E+03  |          | 1.89E-01   | 4.28E+00          |
| 14   | 1  | Surface | Neptunium-237     | pCi/g | 2.14E-01 | 4.75E+02  |          | 3.19E-02   | 7.23E-01          |
| 14   | 1  | Surface | Technetium-99     | pCi/g | 4.06E+02 | 9.01E+05  |          | 6.06E+01   | 1.37E+03          |
| 14   | 1  | Surface | Uranium-238       | pCi/g | 1.69E+00 | 3.75E+03  |          | 2.52E-01   | 5.71E+00          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 2  | Surface | Antimony      | mg/kg | 3.70E+00 | 4.59E-06  | 2.25E-06 | 3.09E-10   |                   |
| 14   | 2  | Surface | Arsenic       | mg/kg | 1.45E+01 | 1.80E-05  | 5.30E-06 | 1.21E-09   |                   |
| 14   | 2  | Surface | Beryllium     | mg/kg | 7.10E-01 | 8.81E-07  | 6.04E-08 | 5.92E-11   |                   |
| 14   | 2  | Surface | Chromium      | mg/kg | 6.65E+01 | 8.26E-05  | 4.04E-05 | 5.55E-09   |                   |
| 14   | 2  | Surface | Copper        | mg/kg | 1.76E+02 | 2.19E-04  | 1.07E-04 | 1.47E-08   |                   |
| 14   | 2  | Surface | Iron          | mg/kg | 3.72E+04 | 4.62E-02  | 2.26E-02 | 3.10E-06   |                   |
| 14   | 2  | Surface | Manganese     | mg/kg | 1.44E+03 | 1.79E-03  | 7.01E-04 | 1.20E-07   |                   |
| 14   | 2  | Surface | Mercury       | mg/kg | 2.67E-01 | 3.31E-07  | 1.62E-07 | 6.64E-07   |                   |
| 14   | 2  | Surface | Nickel        | mg/kg | 6.78E+02 | 8.41E-04  | 3.30E-04 | 5.65E-08   |                   |
| 14   | 2  | Surface | PCB, Total    | mg/kg | 3.90E-01 | 4.84E-07  | 6.64E-07 | 5.48E-08   |                   |
| 14   | 2  | Surface | Total PAH     | mg/kg | 3.38E-01 | 4.20E-07  | 5.34E-07 | 2.09E-09   |                   |
| 14   | 2  | Surface | Uranium       | mg/kg | 2.93E+02 | 3.64E-04  | 1.78E-04 | 2.45E-08   |                   |
| 14   | 2  | Surface | Neptunium-237 | pCi/g | 7.70E-01 | 1.71E+03  |          | 1.15E-01   | 2.60E+00          |
| 14   | 2  | Surface | Thorium-230   | pCi/g | 5.98E+00 | 1.33E+04  |          | 8.92E-01   | 2.02E+01          |
| 14   | 2  | Surface | Uranium-234   | pCi/g | 3.24E+01 | 7.19E+04  |          | 4.83E+00   | 1.09E+02          |
| 14   | 2  | Surface | Uranium-235   | pCi/g | 2.00E+00 | 4.44E+03  |          | 2.98E-01   | 6.76E+00          |
| 14   | 2  | Surface | Uranium-238   | pCi/g | 5.61E+01 | 1.25E+05  |          | 8.37E+00   | 1.90E+02          |
| 14   | 3  | Surface | Arsenic       | mg/kg | 1.30E+01 | 1.61E-05  | 4.73E-06 | 1.08E-09   |                   |
| 14   | 3  | Surface | Chromium      | mg/kg | 7.01E+01 | 8.70E-05  | 4.26E-05 | 5.85E-09   |                   |
| 14   | 3  | Surface | Copper        | mg/kg | 1.29E+02 | 1.60E-04  | 7.86E-05 | 1.08E-08   |                   |
| 14   | 3  | Surface | Iron          | mg/kg | 3.48E+04 | 4.32E-02  | 2.12E-02 | 2.91E-06   |                   |
| 14   | 3  | Surface | Manganese     | mg/kg | 1.06E+03 | 1.31E-03  | 5.14E-04 | 8.82E-08   |                   |
| 14   | 3  | Surface | Mercury       | mg/kg | 7.48E+00 | 9.28E-06  | 4.55E-06 | 1.86E-05   |                   |
| 14   | 3  | Surface | Molybdenum    | mg/kg | 2.21E+01 | 2.74E-05  | 1.34E-05 | 1.84E-09   |                   |
| 14   | 3  | Surface | Nickel        | mg/kg | 5.76E+02 | 7.15E-04  | 2.80E-04 | 4.81E-08   |                   |
| 14   | 3  | Surface | PCB, Total    | mg/kg | 8.65E+00 | 1.07E-05  | 1.47E-05 | 1.22E-06   |                   |
| 14   | 3  | Surface | Uranium       | mg/kg | 2.18E+02 | 2.70E-04  | 1.32E-04 | 1.82E-08   |                   |
| 14   | 3  | Surface | Uranium-238   | pCi/g | 1.50E+00 | 3.33E+03  |          | 2.24E-01   | 5.07E+00          |
| 14   | 4  | Surface | Antimony      | mg/kg | 4.30E+00 | 5.34E-06  | 2.61E-06 | 3.59E-10   |                   |
| 14   | 4  | Surface | Arsenic       | mg/kg | 1.33E+01 | 1.65E-05  | 4.84E-06 | 1.11E-09   |                   |
| 14   | 4  | Surface | Chromium      | mg/kg | 7.20E+01 | 8.94E-05  | 4.38E-05 | 6.01E-09   |                   |
| 14   | 4  | Surface | Copper        | mg/kg | 3.54E+02 | 4.39E-04  | 2.15E-04 | 2.95E-08   |                   |
| 14   | 4  | Surface | Iron          | mg/kg | 3.88E+04 | 4.82E-02  | 2.36E-02 | 3.24E-06   |                   |
| 14   | 4  | Surface | Mercury       | mg/kg | 4.87E-01 | 6.04E-07  | 2.96E-07 | 1.21E-06   |                   |
| 14   | 4  | Surface | Nickel        | mg/kg | 7.31E+02 | 9.07E-04  | 3.55E-04 | 6.09E-08   |                   |
| 14   | 4  | Surface | PCB, Total    | mg/kg | 6.61E+00 | 8.20E-06  | 1.12E-05 | 9.29E-07   |                   |
| 14   | 4  | Surface | Silver        | mg/kg | 1.17E+01 | 1.45E-05  | 5.69E-06 | 9.76E-10   |                   |
| 14   | 4  | Surface | Total PAH     | mg/kg | 2.51E-01 | 3.11E-07  | 3.96E-07 | 1.55E-09   |                   |
| 14   | 4  | Surface | Uranium       | mg/kg | 3.72E+02 | 4.62E-04  | 2.26E-04 | 3.10E-08   |                   |
| 14   | 4  | Surface | Neptunium-237 | pCi/g | 2.68E+00 | 5.95E+03  |          | 4.00E-01   | 9.06E+00          |
| 14   | 4  | Surface | Thorium-230   | pCi/g | 8.33E+00 | 1.85E+04  |          | 1.24E+00   | 2.81E+01          |
| 14   | 4  | Surface | Uranium-234   | pCi/g | 1.13E+02 | 2.51E+05  |          | 1.69E+01   | 3.82E+02          |
| 14   | 4  | Surface | Uranium-235   | pCi/g | 8.00E+00 | 1.78E+04  |          | 1.19E+00   | 2.70E+01          |
| 14   | 4  | Surface | Uranium-238   | pCi/g | 1.69E+02 | 3.75E+05  |          | 2.52E+01   | 5.71E+02          |
| 14   | 5  | Surface | Antimony      | mg/kg | 2.30E+00 | 2.85E-06  | 1.40E-06 | 1.92E-10   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 5  | Surface | Arsenic       | mg/kg | 1.31E+01 | 1.62E-05  | 4.77E-06 | 1.09E-09   |                   |
| 14   | 5  | Surface | Cadmium       | mg/kg | 3.90E+00 | 4.84E-06  | 4.74E-08 | 3.25E-10   |                   |
| 14   | 5  | Surface | Chromium      | mg/kg | 4.70E+01 | 5.83E-05  | 2.85E-05 | 3.92E-09   |                   |
| 14   | 5  | Surface | Cobalt        | mg/kg | 1.40E+01 | 1.74E-05  | 8.51E-06 | 1.17E-09   |                   |
| 14   | 5  | Surface | Copper        | mg/kg | 1.34E+02 | 1.66E-04  | 8.11E-05 | 1.11E-08   |                   |
| 14   | 5  | Surface | Iron          | mg/kg | 3.92E+04 | 4.87E-02  | 2.38E-02 | 3.27E-06   |                   |
| 14   | 5  | Surface | Manganese     | mg/kg | 8.28E+02 | 1.03E-03  | 4.02E-04 | 6.90E-08   |                   |
| 14   | 5  | Surface | Mercury       | mg/kg | 1.09E+01 | 1.36E-05  | 6.65E-06 | 2.72E-05   |                   |
| 14   | 5  | Surface | Nickel        | mg/kg | 4.61E+02 | 5.73E-04  | 2.24E-04 | 3.85E-08   |                   |
| 14   | 5  | Surface | PCB, Total    | mg/kg | 1.00E+00 | 1.24E-06  | 1.70E-06 | 1.41E-07   |                   |
| 14   | 5  | Surface | Silver        | mg/kg | 1.29E+01 | 1.60E-05  | 6.26E-06 | 1.07E-09   |                   |
| 14   | 5  | Surface | Thallium      | mg/kg | 4.10E-01 | 5.09E-07  | 2.49E-07 | 3.42E-11   |                   |
| 14   | 5  | Surface | Total PAH     | mg/kg | 1.21E-01 | 1.50E-07  | 1.91E-07 | 7.46E-10   |                   |
| 14   | 5  | Surface | Uranium       | mg/kg | 2.62E+02 | 3.25E-04  | 1.59E-04 | 2.19E-08   |                   |
| 14   | 5  | Surface | Neptunium-237 | pCi/g | 1.74E+00 | 3.86E+03  |          | 2.60E-01   | 5.88E+00          |
| 14   | 5  | Surface | Technetium-99 | pCi/g | 1.01E+02 | 2.24E+05  |          | 1.51E+01   | 3.41E+02          |
| 14   | 5  | Surface | Thorium-230   | pCi/g | 1.39E+01 | 3.09E+04  |          | 2.07E+00   | 4.70E+01          |
| 14   | 5  | Surface | Uranium-234   | pCi/g | 5.22E+01 | 1.16E+05  |          | 7.79E+00   | 1.76E+02          |
| 14   | 5  | Surface | Uranium-235   | pCi/g | 3.33E+00 | 7.39E+03  |          | 4.97E-01   | 1.13E+01          |
| 14   | 5  | Surface | Uranium-238   | pCi/g | 9.42E+01 | 2.09E+05  |          | 1.41E+01   | 3.18E+02          |
| 14   | 6  | Surface | Antimony      | mg/kg | 2.70E+00 | 3.35E-06  | 1.64E-06 | 2.25E-10   |                   |
| 14   | 6  | Surface | Cadmium       | mg/kg | 8.40E-01 | 1.04E-06  | 1.02E-08 | 7.01E-11   |                   |
| 14   | 6  | Surface | Chromium      | mg/kg | 4.46E+02 | 5.53E-04  | 2.71E-04 | 3.72E-08   |                   |
| 14   | 6  | Surface | Copper        | mg/kg | 1.22E+02 | 1.52E-04  | 7.43E-05 | 1.02E-08   |                   |
| 14   | 6  | Surface | Mercury       | mg/kg | 3.47E-01 | 4.31E-07  | 2.11E-07 | 8.63E-07   |                   |
| 14   | 6  | Surface | Nickel        | mg/kg | 9.63E+02 | 1.20E-03  | 4.68E-04 | 8.04E-08   |                   |
| 14   | 6  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 6.21E-06  | 8.51E-06 | 7.03E-07   |                   |
| 14   | 6  | Surface | Silver        | mg/kg | 1.19E+01 | 1.47E-05  | 5.78E-06 | 9.91E-10   |                   |
| 14   | 6  | Surface | Uranium       | mg/kg | 5.79E+02 | 7.18E-04  | 3.52E-04 | 4.83E-08   |                   |
| 14   | 6  | Surface | Neptunium-237 | pCi/g | 2.65E+00 | 5.88E+03  |          | 3.95E-01   | 8.95E+00          |
| 14   | 6  | Surface | Uranium-234   | pCi/g | 3.41E+01 | 7.57E+04  |          | 5.09E+00   | 1.15E+02          |
| 14   | 6  | Surface | Uranium-235   | pCi/g | 2.27E+00 | 5.04E+03  |          | 3.39E-01   | 7.67E+00          |
| 14   | 6  | Surface | Uranium-238   | pCi/g | 5.08E+01 | 1.13E+05  |          | 7.58E+00   | 1.72E+02          |
| 14   | 7  | Surface | Antimony      | mg/kg | 7.50E-01 | 9.31E-07  | 4.56E-07 | 6.26E-11   |                   |
| 14   | 7  | Surface | Arsenic       | mg/kg | 1.13E+01 | 1.40E-05  | 4.12E-06 | 9.43E-10   |                   |
| 14   | 7  | Surface | Cadmium       | mg/kg | 2.70E+00 | 3.35E-06  | 3.28E-08 | 2.25E-10   |                   |
| 14   | 7  | Surface | Chromium      | mg/kg | 6.46E+01 | 8.01E-05  | 3.92E-05 | 5.39E-09   |                   |
| 14   | 7  | Surface | Mercury       | mg/kg | 7.82E+00 | 9.71E-06  | 4.75E-06 | 1.94E-05   |                   |
| 14   | 7  | Surface | Nickel        | mg/kg | 1.22E+03 | 1.52E-03  | 5.95E-04 | 1.02E-07   |                   |
| 14   | 7  | Surface | PCB, Total    | mg/kg | 7.60E+00 | 9.44E-06  | 1.29E-05 | 1.07E-06   |                   |
| 14   | 7  | Surface | Total PAH     | mg/kg | 6.31E-02 | 7.84E-08  | 9.98E-08 | 3.89E-10   |                   |
| 14   | 7  | Surface | Uranium       | mg/kg | 3.33E+02 | 4.13E-04  | 2.02E-04 | 2.78E-08   |                   |
| 14   | 7  | Surface | Neptunium-237 | pCi/g | 1.49E+00 | 3.31E+03  |          | 2.22E-01   | 5.03E+00          |
| 14   | 7  | Surface | Uranium-234   | pCi/g | 1.28E+01 | 2.84E+04  |          | 1.91E+00   | 4.33E+01          |
| 14   | 7  | Surface | Uranium-235   | pCi/g | 9.60E-01 | 2.13E+03  |          | 1.43E-01   | 3.24E+00          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 7  | Surface | Uranium-238   | pCi/g | 2.13E+01 | 4.73E+04  |          | 3.18E+00   | 7.20E+01          |
| 14   | 8  | Surface | Antimony      | mg/kg | 6.10E-01 | 7.57E-07  | 3.71E-07 | 5.09E-11   |                   |
| 14   | 8  | Surface | Arsenic       | mg/kg | 1.14E+01 | 1.41E-05  | 4.15E-06 | 9.49E-10   |                   |
| 14   | 8  | Surface | Chromium      | mg/kg | 4.60E+01 | 5.71E-05  | 2.80E-05 | 3.84E-09   |                   |
| 14   | 8  | Surface | Mercury       | mg/kg | 7.90E+00 | 9.81E-06  | 4.80E-06 | 1.96E-05   |                   |
| 14   | 8  | Surface | Nickel        | mg/kg | 6.73E+02 | 8.35E-04  | 3.27E-04 | 5.61E-08   |                   |
| 14   | 8  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 6.21E-06  | 8.51E-06 | 7.03E-07   |                   |
| 14   | 8  | Surface | Silver        | mg/kg | 9.63E+00 | 1.20E-05  | 4.68E-06 | 8.03E-10   |                   |
| 14   | 8  | Surface | Total PAH     | mg/kg | 6.28E-02 | 7.79E-08  | 9.92E-08 | 3.87E-10   |                   |
| 14   | 8  | Surface | Uranium       | mg/kg | 3.35E+02 | 4.16E-04  | 2.04E-04 | 2.80E-08   |                   |
| 14   | 8  | Surface | Neptunium-237 | pCi/g | 8.80E-01 | 1.95E+03  |          | 1.31E-01   | 2.97E+00          |
| 14   | 8  | Surface | Uranium-235   | pCi/g | 2.38E-01 | 5.28E+02  |          | 3.55E-02   | 8.04E-01          |
| 14   | 8  | Surface | Uranium-238   | pCi/g | 5.92E+00 | 1.31E+04  |          | 8.83E-01   | 2.00E+01          |
| 14   | 9  | Surface | Antimony      | mg/kg | 2.00E+00 | 2.48E-06  | 1.22E-06 | 1.67E-10   |                   |
| 14   | 9  | Surface | Arsenic       | mg/kg | 1.40E+01 | 1.74E-05  | 5.12E-06 | 1.17E-09   |                   |
| 14   | 9  | Surface | Cadmium       | mg/kg | 9.40E-01 | 1.17E-06  | 1.14E-08 | 7.84E-11   |                   |
| 14   | 9  | Surface | Chromium      | mg/kg | 4.64E+01 | 5.76E-05  | 2.82E-05 | 3.87E-09   |                   |
| 14   | 9  | Surface | Mercury       | mg/kg | 1.13E+00 | 1.40E-06  | 6.87E-07 | 2.81E-06   |                   |
| 14   | 9  | Surface | Nickel        | mg/kg | 9.43E+02 | 1.17E-03  | 4.59E-04 | 7.87E-08   |                   |
| 14   | 9  | Surface | PCB, Total    | mg/kg | 6.84E+00 | 8.49E-06  | 1.16E-05 | 9.62E-07   |                   |
| 14   | 9  | Surface | Total PAH     | mg/kg | 4.87E-01 | 6.05E-07  | 7.70E-07 | 3.01E-09   |                   |
| 14   | 9  | Surface | Uranium       | mg/kg | 1.46E+03 | 1.82E-03  | 8.90E-04 | 1.22E-07   |                   |
| 14   | 9  | Surface | Cesium-137    | pCi/g | 4.53E-01 | 1.01E+03  |          | 6.76E-02   | 1.53E+00          |
| 14   | 9  | Surface | Neptunium-237 | pCi/g | 1.09E+01 | 2.43E+04  |          | 1.63E+00   | 3.69E+01          |
| 14   | 9  | Surface | Technetium-99 | pCi/g | 1.96E+02 | 4.35E+05  |          | 2.92E+01   | 6.62E+02          |
| 14   | 9  | Surface | Uranium-234   | pCi/g | 8.32E+02 | 1.85E+06  |          | 1.24E+02   | 2.81E+03          |
| 14   | 9  | Surface | Uranium-235   | pCi/g | 5.46E+01 | 1.21E+05  |          | 8.14E+00   | 1.84E+02          |
| 14   | 9  | Surface | Uranium-238   | pCi/g | 1.20E+03 | 2.66E+06  |          | 1.79E+02   | 4.05E+03          |
| 14   | 10 | Surface | Antimony      | mg/kg | 9.40E-01 | 1.17E-06  | 5.71E-07 | 7.84E-11   |                   |
| 14   | 10 | Surface | Arsenic       | mg/kg | 1.12E+01 | 1.40E-05  | 4.10E-06 | 9.38E-10   |                   |
| 14   | 10 | Surface | Chromium      | mg/kg | 4.19E+01 | 5.19E-05  | 2.54E-05 | 3.49E-09   |                   |
| 14   | 10 | Surface | Copper        | mg/kg | 1.41E+02 | 1.75E-04  | 8.58E-05 | 1.18E-08   |                   |
| 14   | 10 | Surface | Iron          | mg/kg | 2.75E+04 | 3.41E-02  | 1.67E-02 | 2.29E-06   |                   |
| 14   | 10 | Surface | Mercury       | mg/kg | 2.51E+01 | 3.11E-05  | 1.52E-05 | 6.24E-05   |                   |
| 14   | 10 | Surface | Nickel        | mg/kg | 6.00E+02 | 7.45E-04  | 2.92E-04 | 5.01E-08   |                   |
| 14   | 10 | Surface | PCB, Total    | mg/kg | 9.38E+00 | 1.16E-05  | 1.60E-05 | 1.32E-06   |                   |
| 14   | 10 | Surface | Total PAH     | mg/kg | 2.72E-01 | 3.37E-07  | 4.29E-07 | 1.67E-09   |                   |
| 14   | 10 | Surface | Uranium       | mg/kg | 2.88E+02 | 3.58E-04  | 1.75E-04 | 2.41E-08   |                   |
| 14   | 10 | Surface | Neptunium-237 | pCi/g | 2.64E+00 | 5.86E+03  |          | 3.94E-01   | 8.92E+00          |
| 14   | 10 | Surface | Uranium-234   | pCi/g | 2.42E+01 | 5.37E+04  |          | 3.61E+00   | 8.18E+01          |
| 14   | 10 | Surface | Uranium-235   | pCi/g | 1.76E+00 | 3.91E+03  |          | 2.63E-01   | 5.95E+00          |
| 14   | 10 | Surface | Uranium-238   | pCi/g | 4.09E+01 | 9.08E+04  |          | 6.10E+00   | 1.38E+02          |
| 518  | 1  | Surface | Carbazole     | mg/kg | 1.17E+01 | 1.45E-05  | 1.42E-05 | 4.53E-07   |                   |
| 518  | 1  | Surface | Cobalt        | mg/kg | 6.80E+00 | 8.45E-06  | 4.13E-06 | 5.68E-10   |                   |
| 518  | 1  | Surface | Nickel        | mg/kg | 1.29E+01 | 1.60E-05  | 6.25E-06 | 1.07E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 518  | 1  | Surface | PCB, Total    | mg/kg | 6.30E-01 | 7.82E-07  | 1.07E-06 | 8.86E-08   |                   |
| 518  | 1  | Surface | Pyrene        | mg/kg | 3.94E+01 | 4.89E-05  | 6.23E-05 | 2.16E-06   |                   |
| 518  | 1  | Surface | Total PAH     | mg/kg | 3.90E+01 | 4.84E-05  | 6.16E-05 | 2.40E-07   |                   |
| 518  | 1  | Surface | Uranium       | mg/kg | 2.17E+02 | 2.69E-04  | 1.32E-04 | 1.81E-08   |                   |
| 518  | 1  | Surface | Uranium-235   | pCi/g | 6.74E-02 | 1.50E+02  |          | 1.01E-02   | 2.28E-01          |
| 518  | 1  | Surface | Uranium-238   | pCi/g | 1.51E+00 | 3.36E+03  |          | 2.26E-01   | 5.12E+00          |
| 520  | 1  | Surface | Chromium      | mg/kg | 3.17E+01 | 3.94E-05  | 1.93E-05 | 2.65E-09   |                   |
| 520  | 1  | Surface | Iron          | mg/kg | 1.56E+04 | 1.93E-02  | 9.47E-03 | 1.30E-06   |                   |
| 520  | 1  | Surface | Mercury       | mg/kg | 1.07E+01 | 1.33E-05  | 6.49E-06 | 2.66E-05   |                   |
| 520  | 1  | Surface | Nickel        | mg/kg | 2.60E+02 | 3.23E-04  | 1.27E-04 | 2.17E-08   |                   |
| 520  | 1  | Surface | Silver        | mg/kg | 1.30E+01 | 1.61E-05  | 6.31E-06 | 1.08E-09   |                   |
| 520  | 1  | Surface | Total PAH     | mg/kg | 3.18E-02 | 3.95E-08  | 5.03E-08 | 1.96E-10   |                   |
| 520  | 1  | Surface | Uranium       | mg/kg | 2.29E+01 | 2.85E-05  | 1.39E-05 | 1.91E-09   |                   |
| 520  | 1  | Surface | Cesium-137    | pCi/g | 9.62E-01 | 2.14E+03  |          | 1.44E-01   | 3.25E+00          |
| 520  | 1  | Surface | Neptunium-237 | pCi/g | 6.56E-01 | 1.46E+03  |          | 9.79E-02   | 2.22E+00          |
| 520  | 1  | Surface | Thorium-230   | pCi/g | 1.13E+01 | 2.52E+04  |          | 1.69E+00   | 3.83E+01          |
| 520  | 1  | Surface | Uranium-235   | pCi/g | 1.26E-01 | 2.80E+02  |          | 1.88E-02   | 4.26E-01          |
| 520  | 1  | Surface | Uranium-238   | pCi/g | 3.93E+00 | 8.72E+03  |          | 5.86E-01   | 1.33E+01          |
| 520  | 2  | Surface | Beryllium     | mg/kg | 5.79E-01 | 7.19E-07  | 4.93E-08 | 4.83E-11   |                   |
| 520  | 2  | Surface | Chromium      | mg/kg | 6.67E+01 | 8.27E-05  | 4.05E-05 | 5.56E-09   |                   |
| 520  | 2  | Surface | Manganese     | mg/kg | 5.89E+02 | 7.32E-04  | 2.87E-04 | 4.92E-08   |                   |
| 520  | 2  | Surface | Mercury       | mg/kg | 1.19E+01 | 1.47E-05  | 7.22E-06 | 2.95E-05   |                   |
| 520  | 2  | Surface | Nickel        | mg/kg | 3.11E+02 | 3.85E-04  | 1.51E-04 | 2.59E-08   |                   |
| 520  | 2  | Surface | Total PAH     | mg/kg | 3.17E-01 | 3.93E-07  | 5.01E-07 | 1.96E-09   |                   |
| 520  | 2  | Surface | Uranium       | mg/kg | 3.96E+01 | 4.91E-05  | 2.40E-05 | 3.30E-09   |                   |
| 520  | 2  | Surface | Neptunium-237 | pCi/g | 7.48E-02 | 1.66E+02  |          | 1.12E-02   | 2.53E-01          |
| 520  | 2  | Surface | Uranium-238   | pCi/g | 1.78E+00 | 3.95E+03  |          | 2.65E-01   | 6.01E+00          |
| 520  | 3  | Surface | Chromium      | mg/kg | 3.97E+01 | 4.93E-05  | 2.41E-05 | 3.31E-09   |                   |
| 520  | 3  | Surface | Copper        | mg/kg | 1.19E+02 | 1.48E-04  | 7.23E-05 | 9.93E-09   |                   |
| 520  | 3  | Surface | Nickel        | mg/kg | 2.65E+02 | 3.29E-04  | 1.29E-04 | 2.21E-08   |                   |
| 520  | 3  | Surface | Silver        | mg/kg | 1.27E+01 | 1.57E-05  | 6.16E-06 | 1.06E-09   |                   |
| 520  | 3  | Surface | Total PAH     | mg/kg | 1.18E-01 | 1.47E-07  | 1.87E-07 | 7.28E-10   |                   |
| 520  | 3  | Surface | Uranium       | mg/kg | 1.92E+01 | 2.39E-05  | 1.17E-05 | 1.60E-09   |                   |
| 520  | 3  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 3.49E+03  |          | 2.34E-01   | 5.31E+00          |
| 520  | 4  | Surface | Chromium      | mg/kg | 3.82E+01 | 4.75E-05  | 2.32E-05 | 3.19E-09   |                   |
| 520  | 4  | Surface | Copper        | mg/kg | 1.11E+02 | 1.37E-04  | 6.72E-05 | 9.23E-09   |                   |
| 520  | 4  | Surface | Mercury       | mg/kg | 9.69E+00 | 1.20E-05  | 5.89E-06 | 2.41E-05   |                   |
| 520  | 4  | Surface | Nickel        | mg/kg | 2.82E+02 | 3.50E-04  | 1.37E-04 | 2.35E-08   |                   |
| 520  | 4  | Surface | Silver        | mg/kg | 1.04E+01 | 1.30E-05  | 5.08E-06 | 8.71E-10   |                   |
| 520  | 4  | Surface | Total PAH     | mg/kg | 5.52E-01 | 6.86E-07  | 8.73E-07 | 3.41E-09   |                   |
| 520  | 4  | Surface | Uranium       | mg/kg | 2.40E+01 | 2.98E-05  | 1.46E-05 | 2.00E-09   |                   |
| 520  | 4  | Surface | Neptunium-237 | pCi/g | 7.40E-01 | 1.64E+03  |          | 1.10E-01   | 2.50E+00          |
| 520  | 4  | Surface | Uranium-235   | pCi/g | 2.42E-01 | 5.37E+02  |          | 3.61E-02   | 8.18E-01          |
| 520  | 4  | Surface | Uranium-238   | pCi/g | 6.26E+00 | 1.39E+04  |          | 9.34E-01   | 2.12E+01          |
| 520  | 5  | Surface | Antimony      | mg/kg | 9.60E-01 | 1.19E-06  | 5.83E-07 | 8.01E-11   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.16. Cancerous CDIs for the Outdoor Worker (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 520  | 5  | Surface | Chromium      | mg/kg | 3.68E+01 | 4.57E-05  | 2.24E-05 | 3.07E-09   |                   |
| 520  | 5  | Surface | Nickel        | mg/kg | 1.47E+02 | 1.82E-04  | 7.14E-05 | 1.23E-08   |                   |
| 520  | 5  | Surface | Total PAH     | mg/kg | 3.87E-01 | 4.81E-07  | 6.12E-07 | 2.39E-09   |                   |
| 520  | 5  | Surface | Neptunium-237 | pCi/g | 1.55E-01 | 3.44E+02  |          | 2.31E-02   | 5.24E-01          |
| 520  | 5  | Surface | Uranium-238   | pCi/g | 1.45E+00 | 3.22E+03  |          | 2.16E-01   | 4.90E+00          |
| 81   | 1  | Surface | Aluminum      | mg/kg | 9.57E+03 | 1.19E-02  | 5.82E-03 | 7.99E-07   |                   |
| 81   | 1  | Surface | Arsenic       | mg/kg | 1.03E+01 | 1.27E-05  | 3.74E-06 | 8.55E-10   |                   |
| 81   | 1  | Surface | Beryllium     | mg/kg | 7.57E-01 | 9.40E-07  | 6.44E-08 | 6.31E-11   |                   |
| 81   | 1  | Surface | Chromium      | mg/kg | 8.62E+01 | 1.07E-04  | 5.24E-05 | 7.19E-09   |                   |
| 81   | 1  | Surface | Mercury       | mg/kg | 8.33E+00 | 1.03E-05  | 5.06E-06 | 2.07E-05   |                   |
| 81   | 1  | Surface | Nickel        | mg/kg | 7.29E+01 | 9.05E-05  | 3.54E-05 | 6.08E-09   |                   |
| 81   | 1  | Surface | PCB, Total    | mg/kg | 1.60E+02 | 1.98E-04  | 2.72E-04 | 2.25E-05   |                   |
| 81   | 1  | Surface | Silver        | mg/kg | 2.70E+00 | 3.35E-06  | 1.31E-06 | 2.25E-10   |                   |
| 81   | 1  | Surface | Total PAH     | mg/kg | 5.53E-01 | 6.86E-07  | 8.74E-07 | 3.41E-09   |                   |
| 81   | 1  | Surface | Uranium       | mg/kg | 6.50E+03 | 8.07E-03  | 3.95E-03 | 5.42E-07   |                   |
| 81   | 1  | Surface | Uranium-238   | pCi/g | 2.29E+00 | 5.07E+03  |          | 3.41E-01   | 7.72E+00          |
| 153  | 1  | Surface | PCB, Total    | mg/kg | 5.09E-01 | 6.32E-07  | 8.66E-07 | 7.16E-08   |                   |
| 153  | 1  | Surface | Total PAH     | mg/kg | 8.69E-02 | 1.08E-07  | 1.37E-07 | 5.36E-10   |                   |
| 156  | 1  | Surface | Chromium      | mg/kg | 4.90E+01 | 6.09E-05  | 2.98E-05 | 4.09E-09   |                   |
| 156  | 1  | Surface | Manganese     | mg/kg | 2.83E+03 | 3.52E-03  | 1.38E-03 | 2.36E-07   |                   |
| 156  | 1  | Surface | Mercury       | mg/kg | 9.87E+00 | 1.23E-05  | 6.00E-06 | 2.45E-05   |                   |
| 156  | 1  | Surface | Nickel        | mg/kg | 6.16E+01 | 7.65E-05  | 3.00E-05 | 5.14E-09   |                   |
| 156  | 1  | Surface | PCB, Total    | mg/kg | 3.00E-01 | 3.72E-07  | 5.10E-07 | 4.22E-08   |                   |
| 156  | 1  | Surface | Total PAH     | mg/kg | 8.26E-02 | 1.03E-07  | 1.31E-07 | 5.10E-10   |                   |
| 156  | 1  | Surface | Uranium       | mg/kg | 2.32E+01 | 2.88E-05  | 1.41E-05 | 1.93E-09   |                   |
| 156  | 1  | Surface | Uranium-238   | pCi/g | 2.19E+00 | 4.86E+03  |          | 3.27E-01   | 7.40E+00          |
| 160  | 1  | Surface | Antimony      | mg/kg | 6.80E-01 | 8.44E-07  | 4.13E-07 | 5.67E-11   |                   |
| 160  | 1  | Surface | Total PAH     | mg/kg | 5.29E-02 | 6.57E-08  | 8.36E-08 | 3.26E-10   |                   |
| 163  | 1  | Surface | Chromium      | mg/kg | 4.94E+01 | 6.14E-05  | 3.00E-05 | 4.12E-09   |                   |
| 163  | 1  | Surface | Total PAH     | mg/kg | 1.63E-01 | 2.02E-07  | 2.58E-07 | 1.01E-09   |                   |
| 219  | 1  | Surface | Nickel        | mg/kg | 6.71E+01 | 8.33E-05  | 3.26E-05 | 5.60E-09   |                   |
| 219  | 1  | Surface | Total PAH     | mg/kg | 7.50E-02 | 9.31E-08  | 1.19E-07 | 4.63E-10   |                   |
| 219  | 1  | Surface | Neptunium-237 | pCi/g | 3.31E-01 | 7.35E+02  |          | 4.94E-02   | 1.12E+00          |
| 219  | 1  | Surface | Uranium-235   | pCi/g | 1.92E-01 | 4.26E+02  |          | 2.86E-02   | 6.49E-01          |
| 219  | 1  | Surface | Uranium-238   | pCi/g | 4.40E+00 | 9.77E+03  |          | 6.56E-01   | 1.49E+01          |
| 488  | 1  | Surface | PCB, Total    | mg/kg | 1.03E+01 | 1.28E-05  | 1.75E-05 | 1.45E-06   |                   |
| 488  | 1  | Surface | Total PAH     | mg/kg | 2.50E-01 | 3.10E-07  | 3.95E-07 | 1.54E-09   |                   |
| 488  | 1  | Surface | Uranium       | mg/kg | 1.48E+01 | 1.84E-05  | 8.99E-06 | 1.23E-09   |                   |
| 488  | 1  | Surface | Cesium-137    | pCi/g | 5.20E-01 | 1.15E+03  |          | 7.76E-02   | 1.76E+00          |
| 488  | 1  | Surface | Uranium-235   | pCi/g | 1.49E-01 | 3.31E+02  |          | 2.22E-02   | 5.03E-01          |
| 488  | 1  | Surface | Uranium-238   | pCi/g | 4.54E+00 | 1.01E+04  |          | 6.77E-01   | 1.53E+01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 1           | 1         | Surface      | Beryllium   | mg/kg        | 3.89E+00   | 5.33E-06         | 2.13E-06      | 1.15E-09          |
| 1           | 1         | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 1.51E-06         | 8.59E-08      | 3.24E-10          |
| 1           | 1         | Surface      | Chromium    | mg/kg        | 1.28E+01   | 1.76E-05         | 5.01E-05      | 3.78E-09          |
| 1           | 1         | Surface      | PCB, Total  | mg/kg        | 1.76E-01   | 2.41E-07         | 1.92E-06      | 8.80E-08          |
| 1           | 2         | Surface      | Beryllium   | mg/kg        | 8.23E+00   | 1.13E-05         | 4.50E-06      | 2.42E-09          |
| 1           | 2         | Surface      | Cadmium     | mg/kg        | 6.46E+00   | 8.85E-06         | 5.04E-07      | 1.90E-09          |
| 1           | 2         | Surface      | Chromium    | mg/kg        | 2.01E+02   | 2.76E-04         | 7.86E-04      | 5.92E-08          |
| 1           | 2         | Surface      | Copper      | mg/kg        | 1.81E+02   | 2.48E-04         | 7.06E-04      | 5.33E-08          |
| 1           | 2         | Surface      | Mercury     | mg/kg        | 5.94E+00   | 8.14E-06         | 2.32E-05      | 5.25E-05          |
| 1           | 2         | Surface      | Nickel      | mg/kg        | 5.75E+01   | 7.87E-05         | 1.79E-04      | 1.69E-08          |
| 1           | 2         | Surface      | PCB, Total  | mg/kg        | 3.21E+01   | 4.40E-05         | 3.51E-04      | 1.61E-05          |
| 1           | 2         | Surface      | Silver      | mg/kg        | 3.31E+01   | 4.54E-05         | 1.04E-04      | 9.76E-09          |
| 1           | 2         | Surface      | Thallium    | mg/kg        | 3.70E-01   | 5.07E-07         | 1.44E-06      | 1.09E-10          |
| 1           | 2         | Surface      | Vanadium    | mg/kg        | 3.49E+01   | 4.78E-05         | 7.08E-05      | 1.03E-08          |
| 1           | 3         | Surface      | Chromium    | mg/kg        | 1.45E+01   | 1.98E-05         | 5.65E-05      | 4.26E-09          |
| 1           | 3         | Surface      | PCB, Total  | mg/kg        | 2.17E-01   | 2.97E-07         | 2.37E-06      | 1.09E-07          |
| 1           | 4         | Surface      | Beryllium   | mg/kg        | 7.25E-01   | 9.93E-07         | 3.96E-07      | 2.13E-10          |
| 1           | 4         | Surface      | Chromium    | mg/kg        | 9.30E+01   | 1.27E-04         | 3.63E-04      | 2.74E-08          |
| 1           | 4         | Surface      | Nickel      | mg/kg        | 4.69E+01   | 6.42E-05         | 1.46E-04      | 1.38E-08          |
| 1           | 4         | Surface      | PCB, Total  | mg/kg        | 1.30E-01   | 1.78E-07         | 1.42E-06      | 6.50E-08          |
| 1           | 5         | Surface      | Beryllium   | mg/kg        | 8.30E+00   | 1.14E-05         | 4.54E-06      | 2.44E-09          |
| 1           | 5         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 1.64E-06         | 9.37E-08      | 3.53E-10          |
| 1           | 5         | Surface      | Nickel      | mg/kg        | 4.07E+01   | 5.58E-05         | 1.27E-04      | 1.20E-08          |
| 1           | 5         | Surface      | PCB, Total  | mg/kg        | 2.70E-01   | 3.70E-07         | 2.95E-06      | 1.35E-07          |
| 1           | 5         | Surface      | Total PAH   | mg/kg        | 9.83E-02   | 1.35E-07         | 9.98E-07      | 2.15E-09          |
| 99          | 1         | Surface      | Chromium    | mg/kg        | 5.51E+01   | 7.55E-05         | 2.15E-04      | 1.62E-08          |
| 99          | 1         | Surface      | Mercury     | mg/kg        | 9.53E+00   | 1.31E-05         | 3.72E-05      | 8.42E-05          |
| 99          | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 9.62E-05         | 2.19E-04      | 2.07E-08          |
| 99          | 1         | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.41E-05         | 3.22E-05      | 3.03E-09          |
| 194         | 1         | Surface      | Antimony    | mg/kg        | 1.50E+00   | 2.05E-06         | 5.86E-06      | 4.42E-10          |
| 194         | 1         | Surface      | Chromium    | mg/kg        | 3.87E+01   | 5.30E-05         | 1.51E-04      | 1.14E-08          |
| 194         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 9.19E-06         | 2.62E-05      | 5.93E-05          |
| 194         | 1         | Surface      | Nickel      | mg/kg        | 5.84E+01   | 8.00E-05         | 1.82E-04      | 1.72E-08          |
| 194         | 1         | Surface      | Silver      | mg/kg        | 1.09E+01   | 1.50E-05         | 3.41E-05      | 3.22E-09          |
| 194         | 2         | Surface      | Chromium    | mg/kg        | 5.96E+01   | 8.16E-05         | 2.33E-04      | 1.76E-08          |
| 194         | 2         | Surface      | Silver      | mg/kg        | 1.31E+01   | 1.80E-05         | 4.10E-05      | 3.87E-09          |
| 194         | 2         | Surface      | Uranium     | mg/kg        | 2.28E+01   | 3.12E-05         | 8.89E-05      | 6.71E-09          |
| 194         | 3         | Surface      | Antimony    | mg/kg        | 6.90E-01   | 9.45E-07         | 2.69E-06      | 2.03E-10          |
| 194         | 3         | Surface      | Arsenic     | mg/kg        | 1.46E+01   | 2.01E-05         | 3.43E-05      | 4.31E-09          |
| 194         | 3         | Surface      | Chromium    | mg/kg        | 3.90E+01   | 5.34E-05         | 1.52E-04      | 1.15E-08          |
| 194         | 3         | Surface      | Nickel      | mg/kg        | 6.40E+01   | 8.77E-05         | 2.00E-04      | 1.89E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 3         | Surface      | Total PAH   | mg/kg        | 3.93E-02   | 5.38E-08         | 3.99E-07      | 8.59E-10          |
| 194         | 4         | Surface      | Chromium    | mg/kg        | 4.84E+01   | 6.63E-05         | 1.89E-04      | 1.43E-08          |
| 194         | 4         | Surface      | Mercury     | mg/kg        | 8.92E+00   | 1.22E-05         | 3.48E-05      | 7.88E-05          |
| 194         | 4         | Surface      | Nickel      | mg/kg        | 6.91E+01   | 9.46E-05         | 2.16E-04      | 2.03E-08          |
| 194         | 4         | Surface      | Silver      | mg/kg        | 1.18E+01   | 1.61E-05         | 3.68E-05      | 3.47E-09          |
| 194         | 4         | Surface      | Total PAH   | mg/kg        | 7.30E-02   | 9.99E-08         | 7.41E-07      | 1.59E-09          |
| 194         | 5         | Surface      | Chromium    | mg/kg        | 4.58E+01   | 6.27E-05         | 1.79E-04      | 1.35E-08          |
| 194         | 5         | Surface      | Mercury     | mg/kg        | 8.69E+00   | 1.19E-05         | 3.39E-05      | 7.68E-05          |
| 194         | 5         | Surface      | Nickel      | mg/kg        | 7.54E+01   | 1.03E-04         | 2.36E-04      | 2.22E-08          |
| 194         | 5         | Surface      | Silver      | mg/kg        | 1.25E+01   | 1.71E-05         | 3.89E-05      | 3.67E-09          |
| 194         | 5         | Surface      | Total PAH   | mg/kg        | 2.37E-02   | 3.25E-08         | 2.41E-07      | 5.18E-10          |
| 194         | 6         | Surface      | Chromium    | mg/kg        | 3.70E+01   | 5.07E-05         | 1.44E-04      | 1.09E-08          |
| 194         | 6         | Surface      | Manganese   | mg/kg        | 1.08E+03   | 1.48E-03         | 3.37E-03      | 3.18E-07          |
| 194         | 6         | Surface      | Nickel      | mg/kg        | 8.06E+01   | 1.10E-04         | 2.52E-04      | 2.37E-08          |
| 194         | 6         | Surface      | Silver      | mg/kg        | 9.89E+00   | 1.35E-05         | 3.09E-05      | 2.91E-09          |
| 194         | 7         | Surface      | Chromium    | mg/kg        | 5.32E+01   | 7.29E-05         | 2.08E-04      | 1.57E-08          |
| 194         | 7         | Surface      | Nickel      | mg/kg        | 7.71E+01   | 1.06E-04         | 2.41E-04      | 2.27E-08          |
| 194         | 7         | Surface      | Silver      | mg/kg        | 1.25E+01   | 1.71E-05         | 3.90E-05      | 3.68E-09          |
| 194         | 8         | Surface      | Chromium    | mg/kg        | 5.36E+01   | 7.34E-05         | 2.09E-04      | 1.58E-08          |
| 194         | 8         | Surface      | Manganese   | mg/kg        | 8.00E+02   | 1.10E-03         | 2.50E-03      | 2.36E-07          |
| 194         | 8         | Surface      | Total PAH   | mg/kg        | 4.85E-01   | 6.64E-07         | 4.92E-06      | 1.06E-08          |
| 194         | 9         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 1.56E-05         | 2.68E-05      | 3.36E-09          |
| 194         | 9         | Surface      | Chromium    | mg/kg        | 5.17E+01   | 7.08E-05         | 2.02E-04      | 1.52E-08          |
| 194         | 10        | Surface      | Arsenic     | mg/kg        | 1.22E+01   | 1.67E-05         | 2.85E-05      | 3.58E-09          |
| 194         | 10        | Surface      | Chromium    | mg/kg        | 3.63E+01   | 4.97E-05         | 1.42E-04      | 1.07E-08          |
| 194         | 10        | Surface      | Nickel      | mg/kg        | 7.60E+01   | 1.04E-04         | 2.37E-04      | 2.24E-08          |
| 194         | 10        | Surface      | Total PAH   | mg/kg        | 2.57E-01   | 3.52E-07         | 2.61E-06      | 5.62E-09          |
| 194         | 11        | Surface      | Chromium    | mg/kg        | 3.27E+01   | 4.48E-05         | 1.28E-04      | 9.62E-09          |
| 194         | 11        | Surface      | Mercury     | mg/kg        | 8.09E+00   | 1.11E-05         | 3.16E-05      | 7.15E-05          |
| 194         | 11        | Surface      | Nickel      | mg/kg        | 1.01E+02   | 1.38E-04         | 3.14E-04      | 2.96E-08          |
| 194         | 11        | Surface      | PCB, Total  | mg/kg        | 8.40E-02   | 1.15E-07         | 9.18E-07      | 4.20E-08          |
| 194         | 11        | Surface      | Silver      | mg/kg        | 1.33E+01   | 1.82E-05         | 4.15E-05      | 3.91E-09          |
| 194         | 11        | Surface      | Total PAH   | mg/kg        | 7.95E-02   | 1.09E-07         | 8.07E-07      | 1.74E-09          |
| 194         | 12        | Surface      | Chromium    | mg/kg        | 6.34E+01   | 8.68E-05         | 2.47E-04      | 1.87E-08          |
| 194         | 12        | Surface      | Nickel      | mg/kg        | 7.86E+01   | 1.08E-04         | 2.45E-04      | 2.31E-08          |
| 194         | 12        | Surface      | Silver      | mg/kg        | 1.20E+01   | 1.64E-05         | 3.74E-05      | 3.53E-09          |
| 194         | 12        | Surface      | Total PAH   | mg/kg        | 8.91E-01   | 1.22E-06         | 9.05E-06      | 1.95E-08          |
| 194         | 13        | Surface      | Chromium    | mg/kg        | 4.77E+01   | 6.53E-05         | 1.86E-04      | 1.40E-08          |
| 194         | 13        | Surface      | Nickel      | mg/kg        | 6.03E+01   | 8.26E-05         | 1.88E-04      | 1.78E-08          |
| 194         | 13        | Surface      | Total PAH   | mg/kg        | 9.13E-02   | 1.25E-07         | 9.27E-07      | 2.00E-09          |
| 194         | 14        | Surface      | Chromium    | mg/kg        | 5.21E+01   | 7.14E-05         | 2.03E-04      | 1.53E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 14        | Surface      | Mercury     | mg/kg        | 8.14E+00   | 1.12E-05         | 3.18E-05      | 7.19E-05          |
| 194         | 15        | Surface      | Chromium    | mg/kg        | 5.33E+01   | 7.31E-05         | 2.08E-04      | 1.57E-08          |
| 194         | 15        | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.41E-05         | 3.22E-05      | 3.04E-09          |
| 194         | 16        | Surface      | Antimony    | mg/kg        | 7.40E-01   | 1.01E-06         | 2.89E-06      | 2.18E-10          |
| 194         | 16        | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 1.58E-05         | 2.70E-05      | 3.39E-09          |
| 194         | 16        | Surface      | Beryllium   | mg/kg        | 8.70E-01   | 1.19E-06         | 4.76E-07      | 2.56E-10          |
| 194         | 16        | Surface      | Chromium    | mg/kg        | 5.32E+01   | 7.29E-05         | 2.08E-04      | 1.57E-08          |
| 194         | 16        | Surface      | Nickel      | mg/kg        | 7.20E+01   | 9.87E-05         | 2.25E-04      | 2.12E-08          |
| 194         | 16        | Surface      | Thallium    | mg/kg        | 6.30E-01   | 8.63E-07         | 2.46E-06      | 1.86E-10          |
| 194         | 16        | Surface      | Vanadium    | mg/kg        | 4.11E+01   | 5.63E-05         | 8.34E-05      | 1.21E-08          |
| 194         | 17        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 1.58E-05         | 2.71E-05      | 3.40E-09          |
| 194         | 17        | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 1.51E-06         | 8.59E-08      | 3.24E-10          |
| 194         | 17        | Surface      | Chromium    | mg/kg        | 4.65E+01   | 6.37E-05         | 1.81E-04      | 1.37E-08          |
| 194         | 17        | Surface      | Total PAH   | mg/kg        | 1.59E-01   | 2.17E-07         | 1.61E-06      | 3.47E-09          |
| 194         | 18        | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 1.45E-05         | 2.48E-05      | 3.11E-09          |
| 194         | 18        | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 1.01E-06         | 4.04E-07      | 2.18E-10          |
| 194         | 18        | Surface      | Chromium    | mg/kg        | 6.85E+01   | 9.38E-05         | 2.67E-04      | 2.02E-08          |
| 194         | 18        | Surface      | Nickel      | mg/kg        | 5.78E+01   | 7.92E-05         | 1.80E-04      | 1.70E-08          |
| 194         | 19        | Surface      | Arsenic     | mg/kg        | 1.07E+01   | 1.46E-05         | 2.50E-05      | 3.15E-09          |
| 194         | 19        | Surface      | Chromium    | mg/kg        | 4.84E+01   | 6.62E-05         | 1.89E-04      | 1.42E-08          |
| 194         | 19        | Surface      | Nickel      | mg/kg        | 5.84E+01   | 8.00E-05         | 1.82E-04      | 1.72E-08          |
| 194         | 20        | Surface      | Arsenic     | mg/kg        | 1.18E+01   | 1.62E-05         | 2.77E-05      | 3.49E-09          |
| 194         | 20        | Surface      | Barium      | mg/kg        | 3.26E+02   | 4.47E-04         | 1.27E-03      | 9.60E-08          |
| 194         | 20        | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 1.51E-06         | 6.01E-07      | 3.24E-10          |
| 194         | 20        | Surface      | Chromium    | mg/kg        | 5.24E+01   | 7.17E-05         | 2.04E-04      | 1.54E-08          |
| 194         | 20        | Surface      | Cobalt      | mg/kg        | 2.11E+01   | 2.89E-05         | 8.24E-05      | 6.21E-09          |
| 194         | 20        | Surface      | Manganese   | mg/kg        | 2.29E+03   | 3.14E-03         | 7.16E-03      | 6.76E-07          |
| 194         | 20        | Surface      | Mercury     | mg/kg        | 7.28E+00   | 9.97E-06         | 2.84E-05      | 6.43E-05          |
| 194         | 20        | Surface      | Nickel      | mg/kg        | 6.57E+01   | 9.00E-05         | 2.05E-04      | 1.93E-08          |
| 194         | 20        | Surface      | Silver      | mg/kg        | 1.22E+01   | 1.67E-05         | 3.82E-05      | 3.60E-09          |
| 194         | 20        | Surface      | Total PAH   | mg/kg        | 3.10E-02   | 4.25E-08         | 3.15E-07      | 6.78E-10          |
| 194         | 20        | Surface      | Vanadium    | mg/kg        | 3.81E+01   | 5.22E-05         | 7.73E-05      | 1.12E-08          |
| 194         | 21        | Surface      | Antimony    | mg/kg        | 9.30E-01   | 1.27E-06         | 3.63E-06      | 2.74E-10          |
| 194         | 21        | Surface      | Chromium    | mg/kg        | 5.51E+01   | 7.55E-05         | 2.15E-04      | 1.62E-08          |
| 194         | 21        | Surface      | Mercury     | mg/kg        | 6.62E+00   | 9.07E-06         | 2.58E-05      | 5.85E-05          |
| 194         | 21        | Surface      | Nickel      | mg/kg        | 7.01E+01   | 9.61E-05         | 2.19E-04      | 2.06E-08          |
| 194         | 21        | Surface      | Thallium    | mg/kg        | 6.40E-01   | 8.77E-07         | 2.50E-06      | 1.88E-10          |
| 194         | 22        | Surface      | Chromium    | mg/kg        | 4.90E+01   | 6.71E-05         | 1.91E-04      | 1.44E-08          |
| 194         | 22        | Surface      | Manganese   | mg/kg        | 8.19E+02   | 1.12E-03         | 2.56E-03      | 2.41E-07          |
| 194         | 22        | Surface      | PCB, Total  | mg/kg        | 1.09E+01   | 1.50E-05         | 1.19E-04      | 5.46E-06          |
| 194         | 23        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 1.58E-05         | 2.71E-05      | 3.40E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 23        | Surface      | Chromium    | mg/kg        | 6.60E+01   | 9.04E-05         | 2.58E-04      | 1.94E-08          |
| 194         | 23        | Surface      | Iron        | mg/kg        | 1.83E+04   | 2.50E-02         | 7.14E-02      | 5.38E-06          |
| 194         | 23        | Surface      | Nickel      | mg/kg        | 8.77E+01   | 1.20E-04         | 2.74E-04      | 2.58E-08          |
| 194         | 23        | Surface      | Silver      | mg/kg        | 1.15E+01   | 1.57E-05         | 3.59E-05      | 3.38E-09          |
| 194         | 24        | Surface      | Chromium    | mg/kg        | 5.02E+01   | 6.88E-05         | 1.96E-04      | 1.48E-08          |
| 194         | 24        | Surface      | Nickel      | mg/kg        | 7.08E+01   | 9.69E-05         | 2.21E-04      | 2.08E-08          |
| 194         | 24        | Surface      | Total PAH   | mg/kg        | 2.28E-02   | 3.12E-08         | 2.31E-07      | 4.98E-10          |
| 194         | 25        | Surface      | Barium      | mg/kg        | 3.00E+02   | 4.11E-04         | 1.17E-03      | 8.83E-08          |
| 194         | 25        | Surface      | Chromium    | mg/kg        | 6.13E+01   | 8.39E-05         | 2.39E-04      | 1.80E-08          |
| 194         | 25        | Surface      | Manganese   | mg/kg        | 9.96E+02   | 1.36E-03         | 3.11E-03      | 2.93E-07          |
| 194         | 25        | Surface      | Nickel      | mg/kg        | 6.33E+01   | 8.67E-05         | 1.98E-04      | 1.86E-08          |
| 194         | 25        | Surface      | Total PAH   | mg/kg        | 2.06E-02   | 2.82E-08         | 2.09E-07      | 4.50E-10          |
| 194         | 26        | Surface      | Beryllium   | mg/kg        | 7.00E-01   | 9.59E-07         | 3.83E-07      | 2.06E-10          |
| 194         | 26        | Surface      | Chromium    | mg/kg        | 4.18E+01   | 5.73E-05         | 1.63E-04      | 1.23E-08          |
| 194         | 26        | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.41E-05         | 3.21E-05      | 3.02E-09          |
| 194         | 26        | Surface      | Thallium    | mg/kg        | 3.90E-01   | 5.34E-07         | 1.52E-06      | 1.15E-10          |
| 194         | 27        | Surface      | Chromium    | mg/kg        | 5.22E+01   | 7.15E-05         | 2.04E-04      | 1.54E-08          |
| 194         | 27        | Surface      | Nickel      | mg/kg        | 6.55E+01   | 8.97E-05         | 2.05E-04      | 1.93E-08          |
| 194         | 27        | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.39E-05         | 3.16E-05      | 2.98E-09          |
| 194         | 28        | Surface      | Arsenic     | mg/kg        | 1.20E+01   | 1.65E-05         | 2.82E-05      | 3.54E-09          |
| 194         | 28        | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 9.73E-07         | 3.88E-07      | 2.09E-10          |
| 194         | 28        | Surface      | Chromium    | mg/kg        | 6.07E+01   | 8.32E-05         | 2.37E-04      | 1.79E-08          |
| 194         | 28        | Surface      | Manganese   | mg/kg        | 1.14E+03   | 1.56E-03         | 3.55E-03      | 3.35E-07          |
| 194         | 28        | Surface      | Nickel      | mg/kg        | 6.95E+01   | 9.51E-05         | 2.17E-04      | 2.05E-08          |
| 194         | 28        | Surface      | Silver      | mg/kg        | 1.08E+01   | 1.48E-05         | 3.37E-05      | 3.18E-09          |
| 194         | 28        | Surface      | Vanadium    | mg/kg        | 4.06E+01   | 5.56E-05         | 8.24E-05      | 1.20E-08          |
| 194         | 29        | Surface      | Antimony    | mg/kg        | 7.10E-01   | 9.73E-07         | 2.77E-06      | 2.09E-10          |
| 194         | 29        | Surface      | Chromium    | mg/kg        | 5.06E+01   | 6.93E-05         | 1.97E-04      | 1.49E-08          |
| 194         | 29        | Surface      | Nickel      | mg/kg        | 6.51E+01   | 8.92E-05         | 2.03E-04      | 1.92E-08          |
| 194         | 29        | Surface      | Silver      | mg/kg        | 9.77E+00   | 1.34E-05         | 3.05E-05      | 2.88E-09          |
| 194         | 30        | Surface      | Chromium    | mg/kg        | 5.66E+01   | 7.75E-05         | 2.21E-04      | 1.67E-08          |
| 194         | 30        | Surface      | Mercury     | mg/kg        | 8.80E+00   | 1.21E-05         | 3.44E-05      | 7.77E-05          |
| 194         | 30        | Surface      | Nickel      | mg/kg        | 6.99E+01   | 9.57E-05         | 2.18E-04      | 2.06E-08          |
| 194         | 30        | Surface      | Silver      | mg/kg        | 9.76E+00   | 1.34E-05         | 3.05E-05      | 2.87E-09          |
| 196         | 1         | Surface      | Antimony    | mg/kg        | 5.90E-01   | 8.08E-07         | 2.30E-06      | 1.74E-10          |
| 196         | 1         | Surface      | Chromium    | mg/kg        | 1.96E+01   | 2.68E-05         | 7.65E-05      | 5.77E-09          |
| 196         | 1         | Surface      | Nickel      | mg/kg        | 5.56E+02   | 7.62E-04         | 1.74E-03      | 1.64E-07          |
| 196         | 1         | Surface      | Uranium     | mg/kg        | 2.33E+01   | 3.19E-05         | 9.10E-05      | 6.86E-09          |
| 196         | 2         | Surface      | Barium      | mg/kg        | 2.02E+02   | 2.77E-04         | 7.89E-04      | 5.95E-08          |
| 196         | 2         | Surface      | Cadmium     | mg/kg        | 2.53E+00   | 3.47E-06         | 1.98E-07      | 7.45E-10          |
| 196         | 2         | Surface      | Chromium    | mg/kg        | 2.07E+01   | 2.84E-05         | 8.08E-05      | 6.10E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 196         | 2         | Surface      | Nickel      | mg/kg        | 7.36E+01   | 1.01E-04         | 2.30E-04      | 2.17E-08          |
| 196         | 2         | Surface      | PCB, Total  | mg/kg        | 1.51E+00   | 2.07E-06         | 1.65E-05      | 7.55E-07          |
| 196         | 2         | Surface      | Total PAH   | mg/kg        | 6.80E-01   | 9.32E-07         | 6.90E-06      | 1.49E-08          |
| 489         | 1         | Surface      | Chromium    | mg/kg        | 4.16E+01   | 5.70E-05         | 1.63E-04      | 1.23E-08          |
| 489         | 1         | Surface      | Nickel      | mg/kg        | 7.88E+01   | 1.08E-04         | 2.46E-04      | 2.32E-08          |
| 489         | 1         | Surface      | Total PAH   | mg/kg        | 8.22E-02   | 1.13E-07         | 8.34E-07      | 1.80E-09          |
| 531         | 1         | Surface      | Antimony    | mg/kg        | 1.00E+00   | 1.37E-06         | 3.90E-06      | 2.94E-10          |
| 531         | 1         | Surface      | Arsenic     | mg/kg        | 4.68E+01   | 6.41E-05         | 1.10E-04      | 1.38E-08          |
| 531         | 1         | Surface      | Cadmium     | mg/kg        | 3.10E+00   | 4.25E-06         | 2.42E-07      | 9.13E-10          |
| 531         | 1         | Surface      | Chromium    | mg/kg        | 5.05E+01   | 6.91E-05         | 1.97E-04      | 1.49E-08          |
| 531         | 1         | Surface      | Iron        | mg/kg        | 5.68E+04   | 7.79E-02         | 2.22E-01      | 1.67E-05          |
| 531         | 1         | Surface      | Nickel      | mg/kg        | 1.62E+02   | 2.22E-04         | 5.07E-04      | 4.78E-08          |
| 531         | 1         | Surface      | Total PAH   | mg/kg        | 5.34E-02   | 7.31E-08         | 5.42E-07      | 1.17E-09          |
| 531         | 1         | Surface      | Uranium     | mg/kg        | 2.41E+01   | 3.30E-05         | 9.40E-05      | 7.09E-09          |
| 531         | 1         | Surface      | Zinc        | mg/kg        | 2.45E+03   | 3.36E-03         | 9.57E-03      | 7.22E-07          |
| 200         | 1         | Surface      | Antimony    | mg/kg        | 5.60E-01   | 7.67E-07         | 2.19E-06      | 1.65E-10          |
| 200         | 1         | Surface      | Chromium    | mg/kg        | 5.75E+01   | 7.88E-05         | 2.25E-04      | 1.69E-08          |
| 200         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 9.19E-06         | 2.62E-05      | 5.93E-05          |
| 200         | 1         | Surface      | Nickel      | mg/kg        | 1.28E+02   | 1.75E-04         | 4.00E-04      | 3.77E-08          |
| 200         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E+00   | 3.56E-06         | 2.84E-05      | 1.30E-06          |
| 200         | 1         | Surface      | Total PAH   | mg/kg        | 2.84E-02   | 3.89E-08         | 2.88E-07      | 6.21E-10          |
| 200         | 1         | Surface      | Uranium     | mg/kg        | 2.73E+01   | 3.74E-05         | 1.07E-04      | 8.04E-09          |
| 212         | 1         | Surface      | Arsenic     | mg/kg        | 1.44E+01   | 1.98E-05         | 3.38E-05      | 4.25E-09          |
| 212         | 1         | Surface      | Beryllium   | mg/kg        | 8.10E-01   | 1.11E-06         | 4.43E-07      | 2.39E-10          |
| 212         | 1         | Surface      | Chromium    | mg/kg        | 3.58E+01   | 4.90E-05         | 1.40E-04      | 1.05E-08          |
| 212         | 1         | Surface      | Iron        | mg/kg        | 4.14E+04   | 5.67E-02         | 1.62E-01      | 1.22E-05          |
| 212         | 1         | Surface      | Nickel      | mg/kg        | 8.69E+01   | 1.19E-04         | 2.71E-04      | 2.56E-08          |
| 212         | 1         | Surface      | PCB, Total  | mg/kg        | 1.80E-01   | 2.47E-07         | 1.97E-06      | 9.00E-08          |
| 212         | 1         | Surface      | Uranium     | mg/kg        | 2.30E+01   | 3.15E-05         | 8.98E-05      | 6.77E-09          |
| 213         | 1         | Surface      | Antimony    | mg/kg        | 8.50E-01   | 1.16E-06         | 3.32E-06      | 2.50E-10          |
| 213         | 1         | Surface      | Chromium    | mg/kg        | 4.78E+01   | 6.55E-05         | 1.87E-04      | 1.41E-08          |
| 213         | 1         | Surface      | Nickel      | mg/kg        | 6.67E+01   | 9.14E-05         | 2.08E-04      | 1.97E-08          |
| 213         | 1         | Surface      | PCB, Total  | mg/kg        | 7.30E-02   | 1.00E-07         | 7.98E-07      | 3.65E-08          |
| 213         | 1         | Surface      | Silver      | mg/kg        | 1.32E+01   | 1.80E-05         | 4.11E-05      | 3.88E-09          |
| 213         | 1         | Surface      | Total PAH   | mg/kg        | 1.72E-01   | 2.35E-07         | 1.74E-06      | 3.76E-09          |
| 213         | 2         | Surface      | Chromium    | mg/kg        | 4.48E+01   | 6.14E-05         | 1.75E-04      | 1.32E-08          |
| 213         | 2         | Surface      | Nickel      | mg/kg        | 9.10E+01   | 1.25E-04         | 2.84E-04      | 2.68E-08          |
| 213         | 2         | Surface      | Silver      | mg/kg        | 1.13E+01   | 1.54E-05         | 3.52E-05      | 3.32E-09          |
| 214         | 1         | Surface      | Antimony    | mg/kg        | 5.70E-01   | 7.81E-07         | 2.23E-06      | 1.68E-10          |
| 215         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 9.32E-07         | 2.65E-06      | 2.00E-10          |
| 215         | 1         | Surface      | Chromium    | mg/kg        | 5.73E+01   | 7.85E-05         | 2.24E-04      | 1.69E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 215         | 1         | Surface      | Iron        | mg/kg        | 3.87E+04   | 5.30E-02         | 1.51E-01      | 1.14E-05          |
| 215         | 1         | Surface      | Nickel      | mg/kg        | 7.32E+01   | 1.00E-04         | 2.28E-04      | 2.15E-08          |
| 215         | 1         | Surface      | Total PAH   | mg/kg        | 8.09E-02   | 1.11E-07         | 8.21E-07      | 1.77E-09          |
| 216         | 1         | Surface      | Chromium    | mg/kg        | 2.38E+01   | 3.26E-05         | 9.29E-05      | 7.01E-09          |
| 216         | 1         | Surface      | Total PAH   | mg/kg        | 1.49E-01   | 2.05E-07         | 1.52E-06      | 3.26E-09          |
| 217         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 1.17E-04         | 3.35E-04      | 2.53E-08          |
| 217         | 1         | Surface      | Cobalt      | mg/kg        | 1.96E+01   | 2.68E-05         | 7.64E-05      | 5.76E-09          |
| 217         | 1         | Surface      | Manganese   | mg/kg        | 7.70E+02   | 1.05E-03         | 2.40E-03      | 2.27E-07          |
| 217         | 1         | Surface      | Nickel      | mg/kg        | 8.54E+01   | 1.17E-04         | 2.67E-04      | 2.52E-08          |
| 217         | 1         | Surface      | Silver      | mg/kg        | 1.35E+01   | 1.84E-05         | 4.20E-05      | 3.96E-09          |
| 217         | 2         | Surface      | Antimony    | mg/kg        | 1.70E+00   | 2.33E-06         | 6.64E-06      | 5.01E-10          |
| 217         | 2         | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 1.53E-05         | 2.61E-05      | 3.29E-09          |
| 217         | 2         | Surface      | Chromium    | mg/kg        | 1.02E+02   | 1.39E-04         | 3.97E-04      | 2.99E-08          |
| 217         | 2         | Surface      | Cobalt      | mg/kg        | 1.74E+01   | 2.38E-05         | 6.79E-05      | 5.12E-09          |
| 217         | 2         | Surface      | Iron        | mg/kg        | 3.09E+04   | 4.24E-02         | 1.21E-01      | 9.11E-06          |
| 217         | 2         | Surface      | Manganese   | mg/kg        | 8.44E+02   | 1.16E-03         | 2.63E-03      | 2.48E-07          |
| 217         | 2         | Surface      | Mercury     | mg/kg        | 8.59E+00   | 1.18E-05         | 3.35E-05      | 7.59E-05          |
| 217         | 2         | Surface      | Nickel      | mg/kg        | 9.74E+01   | 1.33E-04         | 3.04E-04      | 2.87E-08          |
| 217         | 2         | Surface      | Silver      | mg/kg        | 1.61E+01   | 2.20E-05         | 5.03E-05      | 4.74E-09          |
| 217         | 2         | Surface      | Total PAH   | mg/kg        | 5.05E-01   | 6.92E-07         | 5.13E-06      | 1.10E-08          |
| 221         | 1         | Surface      | Barium      | mg/kg        | 2.21E+02   | 3.03E-04         | 8.63E-04      | 6.51E-08          |
| 221         | 1         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 9.61E-05         | 2.74E-04      | 2.06E-08          |
| 221         | 1         | Surface      | Iron        | mg/kg        | 1.90E+04   | 2.60E-02         | 7.41E-02      | 5.59E-06          |
| 221         | 1         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 1.09E-04         | 2.48E-04      | 2.33E-08          |
| 221         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 6.85E-07         | 5.47E-06      | 2.50E-07          |
| 221         | 1         | Surface      | Total PAH   | mg/kg        | 1.02E+00   | 1.40E-06         | 1.04E-05      | 2.24E-08          |
| 221         | 1         | Surface      | Uranium     | mg/kg        | 1.64E+01   | 2.24E-05         | 6.38E-05      | 4.81E-09          |
| 222         | 1         | Surface      | Chromium    | mg/kg        | 4.73E+01   | 6.48E-05         | 1.85E-04      | 1.39E-08          |
| 222         | 1         | Surface      | Nickel      | mg/kg        | 9.19E+01   | 1.26E-04         | 2.87E-04      | 2.71E-08          |
| 222         | 1         | Surface      | PCB, Total  | mg/kg        | 1.40E+00   | 1.92E-06         | 1.53E-05      | 7.00E-07          |
| 222         | 1         | Surface      | Total PAH   | mg/kg        | 1.77E-01   | 2.43E-07         | 1.80E-06      | 3.87E-09          |
| 222         | 1         | Surface      | Uranium     | mg/kg        | 2.80E+01   | 3.83E-05         | 1.09E-04      | 8.24E-09          |
| 227         | 1         | Surface      | Beryllium   | mg/kg        | 5.52E-01   | 7.56E-07         | 3.02E-07      | 1.63E-10          |
| 227         | 1         | Surface      | Chromium    | mg/kg        | 4.71E+01   | 6.46E-05         | 1.84E-04      | 1.39E-08          |
| 227         | 1         | Surface      | Nickel      | mg/kg        | 2.03E+02   | 2.78E-04         | 6.34E-04      | 5.98E-08          |
| 227         | 1         | Surface      | PCB, Total  | mg/kg        | 4.14E+00   | 5.68E-06         | 4.53E-05      | 2.07E-06          |
| 227         | 1         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 4.63E-07         | 3.43E-06      | 7.38E-09          |
| 227         | 1         | Surface      | Uranium     | mg/kg        | 1.02E+02   | 1.39E-04         | 3.97E-04      | 2.99E-08          |
| 227         | 2         | Surface      | Beryllium   | mg/kg        | 5.32E-01   | 7.29E-07         | 2.91E-07      | 1.57E-10          |
| 227         | 2         | Surface      | Chromium    | mg/kg        | 5.63E+01   | 7.71E-05         | 2.20E-04      | 1.66E-08          |
| 227         | 2         | Surface      | Cobalt      | mg/kg        | 8.99E+00   | 1.23E-05         | 3.51E-05      | 2.65E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 227         | 2         | Surface      | Mercury     | mg/kg        | 8.41E+00   | 1.15E-05         | 3.28E-05      | 7.43E-05          |
| 227         | 2         | Surface      | Nickel      | mg/kg        | 1.25E+02   | 1.71E-04         | 3.90E-04      | 3.68E-08          |
| 227         | 2         | Surface      | PCB, Total  | mg/kg        | 5.82E+00   | 7.97E-06         | 6.36E-05      | 2.91E-06          |
| 227         | 2         | Surface      | Total PAH   | mg/kg        | 1.16E-01   | 1.58E-07         | 1.17E-06      | 2.53E-09          |
| 227         | 2         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 2.06E-05         | 5.88E-05      | 4.43E-09          |
| 228         | 1         | Surface      | Antimony    | mg/kg        | 6.30E-01   | 8.63E-07         | 2.46E-06      | 1.86E-10          |
| 228         | 1         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 5.34E-06         | 3.05E-07      | 1.15E-09          |
| 228         | 1         | Surface      | Chromium    | mg/kg        | 1.89E+02   | 2.59E-04         | 7.37E-04      | 5.56E-08          |
| 228         | 1         | Surface      | Mercury     | mg/kg        | 9.37E+00   | 1.28E-05         | 3.66E-05      | 8.28E-05          |
| 228         | 1         | Surface      | Nickel      | mg/kg        | 7.92E+01   | 1.08E-04         | 2.47E-04      | 2.33E-08          |
| 228         | 1         | Surface      | Silver      | mg/kg        | 1.16E+01   | 1.59E-05         | 3.63E-05      | 3.42E-09          |
| 228         | 1         | Surface      | Total PAH   | mg/kg        | 6.69E-02   | 9.16E-08         | 6.79E-07      | 1.46E-09          |
| 228         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 2.07E-05         | 5.91E-05      | 4.46E-09          |
| 76          | 1         | Surface      | Barium      | mg/kg        | 2.69E+02   | 3.68E-04         | 1.05E-03      | 7.92E-08          |
| 76          | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 3.56E-07         | 2.84E-06      | 1.30E-07          |
| 76          | 1         | Surface      | Total PAH   | mg/kg        | 1.76E+00   | 2.41E-06         | 1.78E-05      | 3.84E-08          |
| 165         | 1         | Surface      | Antimony    | mg/kg        | 2.20E+00   | 3.01E-06         | 8.59E-06      | 6.48E-10          |
| 165         | 1         | Surface      | Arsenic     | mg/kg        | 6.35E+01   | 8.70E-05         | 1.49E-04      | 1.87E-08          |
| 165         | 1         | Surface      | Barium      | mg/kg        | 5.84E+02   | 8.00E-04         | 2.28E-03      | 1.72E-07          |
| 165         | 1         | Surface      | Beryllium   | mg/kg        | 6.82E-01   | 9.34E-07         | 3.73E-07      | 2.01E-10          |
| 165         | 1         | Surface      | Chromium    | mg/kg        | 3.74E+01   | 5.12E-05         | 1.46E-04      | 1.10E-08          |
| 165         | 1         | Surface      | Mercury     | mg/kg        | 3.78E-01   | 5.18E-07         | 1.48E-06      | 3.34E-06          |
| 165         | 1         | Surface      | Naphthalene | mg/kg        | 1.61E+00   | 2.21E-06         | 3.14E-05      | 1.59E-05          |
| 165         | 1         | Surface      | Nickel      | mg/kg        | 3.47E+01   | 4.75E-05         | 1.08E-04      | 1.02E-08          |
| 165         | 1         | Surface      | PCB, Total  | mg/kg        | 8.27E+00   | 1.13E-05         | 9.04E-05      | 4.13E-06          |
| 165         | 1         | Surface      | Silver      | mg/kg        | 3.09E+01   | 4.24E-05         | 9.66E-05      | 9.11E-09          |
| 165         | 1         | Surface      | Total PAH   | mg/kg        | 1.87E+00   | 2.56E-06         | 1.90E-05      | 4.08E-08          |
| 165         | 1         | Surface      | Uranium     | mg/kg        | 1.08E+02   | 1.47E-04         | 4.20E-04      | 3.17E-08          |
| 158         | 1         | Surface      | Antimony    | mg/kg        | 5.23E-01   | 7.16E-07         | 2.04E-06      | 1.54E-10          |
| 158         | 1         | Surface      | Arsenic     | mg/kg        | 1.01E+01   | 1.39E-05         | 2.37E-05      | 2.98E-09          |
| 158         | 1         | Surface      | Barium      | mg/kg        | 2.19E+02   | 3.00E-04         | 8.54E-04      | 6.44E-08          |
| 158         | 1         | Surface      | Chromium    | mg/kg        | 6.07E+01   | 8.32E-05         | 2.37E-04      | 1.79E-08          |
| 158         | 1         | Surface      | Cobalt      | mg/kg        | 1.62E+01   | 2.22E-05         | 6.33E-05      | 4.78E-09          |
| 158         | 1         | Surface      | Manganese   | mg/kg        | 9.91E+02   | 1.36E-03         | 3.09E-03      | 2.92E-07          |
| 158         | 1         | Surface      | Mercury     | mg/kg        | 1.05E+01   | 1.43E-05         | 4.08E-05      | 9.24E-05          |
| 158         | 1         | Surface      | Nickel      | mg/kg        | 7.28E+01   | 9.98E-05         | 2.27E-04      | 2.14E-08          |
| 158         | 1         | Surface      | Thallium    | mg/kg        | 3.12E-01   | 4.27E-07         | 1.22E-06      | 9.19E-11          |
| 158         | 1         | Surface      | Total PAH   | mg/kg        | 3.69E-01   | 5.05E-07         | 3.75E-06      | 8.07E-09          |
| 158         | 1         | Surface      | Uranium     | mg/kg        | 2.03E+01   | 2.78E-05         | 7.93E-05      | 5.98E-09          |
| 169         | 1         | Surface      | Aluminum    | mg/kg        | 1.42E+04   | 1.95E-02         | 5.54E-02      | 4.18E-06          |
| 169         | 1         | Surface      | Antimony    | mg/kg        | 1.30E+00   | 1.78E-06         | 5.08E-06      | 3.83E-10          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 169         | 1         | Surface      | Arsenic     | mg/kg        | 2.03E+01   | 2.78E-05         | 4.76E-05      | 5.98E-09          |
| 169         | 1         | Surface      | Beryllium   | mg/kg        | 8.00E-01   | 1.10E-06         | 4.37E-07      | 2.36E-10          |
| 169         | 1         | Surface      | Chromium    | mg/kg        | 2.15E+02   | 2.94E-04         | 8.39E-04      | 6.33E-08          |
| 169         | 1         | Surface      | Copper      | mg/kg        | 3.74E+02   | 5.13E-04         | 1.46E-03      | 1.10E-07          |
| 169         | 1         | Surface      | Iron        | mg/kg        | 4.16E+04   | 5.69E-02         | 1.62E-01      | 1.22E-05          |
| 169         | 1         | Surface      | Mercury     | mg/kg        | 7.87E+00   | 1.08E-05         | 3.07E-05      | 6.95E-05          |
| 169         | 1         | Surface      | Nickel      | mg/kg        | 5.49E+02   | 7.52E-04         | 1.71E-03      | 1.62E-07          |
| 169         | 1         | Surface      | PCB, Total  | mg/kg        | 1.00E+01   | 1.37E-05         | 1.09E-04      | 5.00E-06          |
| 169         | 1         | Surface      | Thallium    | mg/kg        | 4.60E-01   | 6.30E-07         | 1.80E-06      | 1.35E-10          |
| 169         | 1         | Surface      | Total PAH   | mg/kg        | 4.59E+00   | 6.28E-06         | 4.66E-05      | 1.00E-07          |
| 169         | 1         | Surface      | Uranium     | mg/kg        | 5.03E+01   | 6.89E-05         | 1.96E-04      | 1.48E-08          |
| 19          | 1         | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 1.51E-06         | 6.01E-07      | 3.24E-10          |
| 19          | 1         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 1.64E-06         | 9.37E-08      | 3.53E-10          |
| 19          | 1         | Surface      | Thallium    | mg/kg        | 9.80E-01   | 1.34E-06         | 3.83E-06      | 2.89E-10          |
| 19          | 1         | Surface      | Total PAH   | mg/kg        | 5.23E+00   | 7.16E-06         | 5.31E-05      | 1.14E-07          |
| 138         | 1         | Surface      | Antimony    | mg/kg        | 5.39E+00   | 7.39E-06         | 2.11E-05      | 1.59E-09          |
| 138         | 1         | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 1.45E-05         | 2.49E-05      | 3.13E-09          |
| 138         | 1         | Surface      | Cadmium     | mg/kg        | 5.42E+00   | 7.42E-06         | 4.23E-07      | 1.60E-09          |
| 138         | 1         | Surface      | Chromium    | mg/kg        | 5.39E+01   | 7.38E-05         | 2.10E-04      | 1.59E-08          |
| 138         | 1         | Surface      | Mercury     | mg/kg        | 1.30E+01   | 1.78E-05         | 5.07E-05      | 1.15E-04          |
| 138         | 1         | Surface      | Nickel      | mg/kg        | 7.04E+01   | 9.64E-05         | 2.20E-04      | 2.07E-08          |
| 138         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 6.85E-07         | 5.47E-06      | 2.50E-07          |
| 138         | 1         | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.38E-05         | 3.15E-05      | 2.97E-09          |
| 138         | 1         | Surface      | Total PAH   | mg/kg        | 9.74E-02   | 1.33E-07         | 9.89E-07      | 2.13E-09          |
| 138         | 2         | Surface      | Nickel      | mg/kg        | 7.99E+01   | 1.09E-04         | 2.49E-04      | 2.35E-08          |
| 138         | 2         | Surface      | PCB, Total  | mg/kg        | 9.20E-02   | 1.26E-07         | 1.01E-06      | 4.60E-08          |
| 138         | 2         | Surface      | Silver      | mg/kg        | 1.04E+01   | 1.43E-05         | 3.26E-05      | 3.07E-09          |
| 138         | 2         | Surface      | Total PAH   | mg/kg        | 3.84E-02   | 5.26E-08         | 3.90E-07      | 8.39E-10          |
| 180         | 1         | Surface      | Antimony    | mg/kg        | 5.80E-01   | 7.95E-07         | 2.26E-06      | 1.71E-10          |
| 180         | 1         | Surface      | Arsenic     | mg/kg        | 7.48E+01   | 1.02E-04         | 1.75E-04      | 2.20E-08          |
| 180         | 1         | Surface      | Chromium    | mg/kg        | 5.54E+01   | 7.59E-05         | 2.16E-04      | 1.63E-08          |
| 180         | 1         | Surface      | Mercury     | mg/kg        | 8.28E+00   | 1.13E-05         | 3.23E-05      | 7.32E-05          |
| 180         | 1         | Surface      | Nickel      | mg/kg        | 8.77E+01   | 1.20E-04         | 2.74E-04      | 2.58E-08          |
| 180         | 2         | Surface      | Antimony    | mg/kg        | 4.58E-01   | 6.27E-07         | 1.79E-06      | 1.35E-10          |
| 180         | 2         | Surface      | Arsenic     | mg/kg        | 1.27E+01   | 1.73E-05         | 2.96E-05      | 3.73E-09          |
| 180         | 2         | Surface      | Chromium    | mg/kg        | 4.46E+01   | 6.11E-05         | 1.74E-04      | 1.31E-08          |
| 180         | 2         | Surface      | Nickel      | mg/kg        | 8.42E+01   | 1.15E-04         | 2.63E-04      | 2.48E-08          |
| 180         | 2         | Surface      | Total PAH   | mg/kg        | 9.19E-02   | 1.26E-07         | 9.32E-07      | 2.01E-09          |
| 180         | 3         | Surface      | Arsenic     | mg/kg        | 1.34E+01   | 1.83E-05         | 3.13E-05      | 3.93E-09          |
| 180         | 3         | Surface      | Chromium    | mg/kg        | 4.69E+01   | 6.43E-05         | 1.83E-04      | 1.38E-08          |
| 180         | 3         | Surface      | Nickel      | mg/kg        | 6.77E+01   | 9.28E-05         | 2.11E-04      | 1.99E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 180         | 3         | Surface      | Silver      | mg/kg        | 1.14E+01   | 1.56E-05         | 3.56E-05      | 3.36E-09          |
| 180         | 4         | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 1.58E-05         | 2.70E-05      | 3.40E-09          |
| 180         | 4         | Surface      | Barium      | mg/kg        | 2.13E+02   | 2.92E-04         | 8.32E-04      | 6.27E-08          |
| 180         | 4         | Surface      | Beryllium   | mg/kg        | 1.60E+00   | 2.19E-06         | 8.75E-07      | 4.71E-10          |
| 180         | 4         | Surface      | Chromium    | mg/kg        | 6.00E+01   | 8.22E-05         | 2.34E-04      | 1.77E-08          |
| 180         | 4         | Surface      | Iron        | mg/kg        | 1.54E+04   | 2.11E-02         | 6.00E-02      | 4.53E-06          |
| 180         | 4         | Surface      | Manganese   | mg/kg        | 7.09E+02   | 9.71E-04         | 2.21E-03      | 2.09E-07          |
| 180         | 4         | Surface      | Nickel      | mg/kg        | 6.46E+01   | 8.85E-05         | 2.02E-04      | 1.90E-08          |
| 180         | 4         | Surface      | Silver      | mg/kg        | 9.68E+00   | 1.33E-05         | 3.02E-05      | 2.85E-09          |
| 180         | 4         | Surface      | Total PAH   | mg/kg        | 2.15E-02   | 2.95E-08         | 2.18E-07      | 4.70E-10          |
| 180         | 4         | Surface      | Vanadium    | mg/kg        | 4.85E+01   | 6.64E-05         | 9.85E-05      | 1.43E-08          |
| 181         | 1         | Surface      | Chromium    | mg/kg        | 2.29E+01   | 3.13E-05         | 8.92E-05      | 6.73E-09          |
| 181         | 1         | Surface      | Thallium    | mg/kg        | 3.50E+00   | 4.79E-06         | 1.37E-05      | 1.03E-09          |
| 181         | 1         | Surface      | Total PAH   | mg/kg        | 3.43E-02   | 4.70E-08         | 3.48E-07      | 7.50E-10          |
| 195         | 1         | Surface      | Chromium    | mg/kg        | 6.33E+01   | 8.67E-05         | 2.47E-04      | 1.86E-08          |
| 195         | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 9.62E-05         | 2.19E-04      | 2.07E-08          |
| 195         | 1         | Surface      | Silver      | mg/kg        | 9.37E+00   | 1.28E-05         | 2.93E-05      | 2.76E-09          |
| 195         | 2         | Surface      | Chromium    | mg/kg        | 4.52E+01   | 6.19E-05         | 1.76E-04      | 1.33E-08          |
| 195         | 2         | Surface      | Silver      | mg/kg        | 9.48E+00   | 1.30E-05         | 2.96E-05      | 2.79E-09          |
| 195         | 2         | Surface      | Total PAH   | mg/kg        | 2.68E-02   | 3.67E-08         | 2.72E-07      | 5.86E-10          |
| 195         | 3         | Surface      | Chromium    | mg/kg        | 5.03E+01   | 6.89E-05         | 1.96E-04      | 1.48E-08          |
| 195         | 3         | Surface      | Nickel      | mg/kg        | 5.22E+01   | 7.14E-05         | 1.63E-04      | 1.54E-08          |
| 195         | 3         | Surface      | Total PAH   | mg/kg        | 4.06E-02   | 5.56E-08         | 4.12E-07      | 8.87E-10          |
| 195         | 4         | Surface      | Chromium    | mg/kg        | 5.29E+01   | 7.25E-05         | 2.07E-04      | 1.56E-08          |
| 195         | 4         | Surface      | Nickel      | mg/kg        | 6.23E+01   | 8.53E-05         | 1.95E-04      | 1.83E-08          |
| 195         | 5         | Surface      | Chromium    | mg/kg        | 5.74E+01   | 7.86E-05         | 2.24E-04      | 1.69E-08          |
| 195         | 5         | Surface      | Nickel      | mg/kg        | 8.11E+01   | 1.11E-04         | 2.53E-04      | 2.39E-08          |
| 195         | 5         | Surface      | Total PAH   | mg/kg        | 2.40E-02   | 3.29E-08         | 2.44E-07      | 5.25E-10          |
| 195         | 6         | Surface      | Chromium    | mg/kg        | 4.45E+01   | 6.10E-05         | 1.74E-04      | 1.31E-08          |
| 195         | 6         | Surface      | Nickel      | mg/kg        | 8.71E+01   | 1.19E-04         | 2.72E-04      | 2.57E-08          |
| 195         | 6         | Surface      | Total PAH   | mg/kg        | 2.48E-01   | 3.39E-07         | 2.51E-06      | 5.41E-09          |
| 195         | 7         | Surface      | Chromium    | mg/kg        | 4.93E+01   | 6.75E-05         | 1.92E-04      | 1.45E-08          |
| 195         | 7         | Surface      | Silver      | mg/kg        | 8.06E+00   | 1.10E-05         | 2.52E-05      | 2.37E-09          |
| 195         | 8         | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 1.58E-05         | 2.71E-05      | 3.40E-09          |
| 195         | 8         | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 1.01E-06         | 4.04E-07      | 2.18E-10          |
| 195         | 8         | Surface      | Chromium    | mg/kg        | 6.79E+01   | 9.31E-05         | 2.65E-04      | 2.00E-08          |
| 195         | 8         | Surface      | Cobalt      | mg/kg        | 1.82E+01   | 2.49E-05         | 7.11E-05      | 5.36E-09          |
| 195         | 8         | Surface      | Nickel      | mg/kg        | 7.01E+01   | 9.60E-05         | 2.19E-04      | 2.06E-08          |
| 195         | 8         | Surface      | Total PAH   | mg/kg        | 2.16E-01   | 2.95E-07         | 2.19E-06      | 4.71E-09          |
| 195         | 8         | Surface      | Vanadium    | mg/kg        | 4.04E+01   | 5.53E-05         | 8.20E-05      | 1.19E-08          |
| 195         | 9         | Surface      | Chromium    | mg/kg        | 6.08E+01   | 8.33E-05         | 2.37E-04      | 1.79E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 195         | 9         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 1.09E-04         | 2.48E-04      | 2.33E-08          |
| 195         | 10        | Surface      | Chromium    | mg/kg        | 4.51E+01   | 6.17E-05         | 1.76E-04      | 1.33E-08          |
| 195         | 10        | Surface      | Nickel      | mg/kg        | 7.40E+01   | 1.01E-04         | 2.31E-04      | 2.18E-08          |
| 195         | 10        | Surface      | Silver      | mg/kg        | 1.31E+01   | 1.80E-05         | 4.09E-05      | 3.86E-09          |
| 195         | 11        | Surface      | Aluminum    | mg/kg        | 2.81E+04   | 3.85E-02         | 1.10E-01      | 8.27E-06          |
| 195         | 11        | Surface      | Arsenic     | mg/kg        | 1.35E+01   | 1.84E-05         | 3.15E-05      | 3.96E-09          |
| 195         | 11        | Surface      | Barium      | mg/kg        | 4.53E+02   | 6.21E-04         | 1.77E-03      | 1.33E-07          |
| 195         | 11        | Surface      | Chromium    | mg/kg        | 5.05E+01   | 6.92E-05         | 1.97E-04      | 1.49E-08          |
| 195         | 11        | Surface      | Cobalt      | mg/kg        | 2.77E+01   | 3.79E-05         | 1.08E-04      | 8.16E-09          |
| 195         | 11        | Surface      | Iron        | mg/kg        | 1.97E+04   | 2.70E-02         | 7.69E-02      | 5.80E-06          |
| 195         | 11        | Surface      | Nickel      | mg/kg        | 6.77E+01   | 9.27E-05         | 2.11E-04      | 1.99E-08          |
| 195         | 11        | Surface      | Thallium    | mg/kg        | 6.60E-01   | 9.04E-07         | 2.58E-06      | 1.94E-10          |
| 195         | 11        | Surface      | Vanadium    | mg/kg        | 7.97E+01   | 1.09E-04         | 1.62E-04      | 2.35E-08          |
| 195         | 12        | Surface      | Beryllium   | mg/kg        | 7.50E-01   | 1.03E-06         | 4.10E-07      | 2.21E-10          |
| 195         | 12        | Surface      | Chromium    | mg/kg        | 7.04E+01   | 9.64E-05         | 2.75E-04      | 2.07E-08          |
| 195         | 12        | Surface      | Nickel      | mg/kg        | 6.78E+01   | 9.28E-05         | 2.12E-04      | 2.00E-08          |
| 195         | 13        | Surface      | Chromium    | mg/kg        | 6.55E+01   | 8.97E-05         | 2.56E-04      | 1.93E-08          |
| 195         | 13        | Surface      | Nickel      | mg/kg        | 6.91E+01   | 9.46E-05         | 2.16E-04      | 2.03E-08          |
| 195         | 14        | Surface      | Chromium    | mg/kg        | 5.94E+01   | 8.14E-05         | 2.32E-04      | 1.75E-08          |
| 195         | 14        | Surface      | Nickel      | mg/kg        | 7.04E+01   | 9.64E-05         | 2.20E-04      | 2.07E-08          |
| 195         | 15        | Surface      | Chromium    | mg/kg        | 4.82E+01   | 6.60E-05         | 1.88E-04      | 1.42E-08          |
| 195         | 16        | Surface      | Chromium    | mg/kg        | 4.45E+01   | 6.09E-05         | 1.74E-04      | 1.31E-08          |
| 195         | 16        | Surface      | Nickel      | mg/kg        | 8.16E+01   | 1.12E-04         | 2.55E-04      | 2.40E-08          |
| 195         | 17        | Surface      | Chromium    | mg/kg        | 8.22E+01   | 1.13E-04         | 3.21E-04      | 2.42E-08          |
| 195         | 17        | Surface      | Mercury     | mg/kg        | 4.17E-01   | 5.71E-07         | 1.63E-06      | 3.68E-06          |
| 195         | 17        | Surface      | Nickel      | mg/kg        | 5.93E+01   | 8.13E-05         | 1.85E-04      | 1.75E-08          |
| 195         | 17        | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 1.01E-06         | 8.09E-06      | 3.70E-07          |
| 195         | 17        | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.39E-05         | 3.17E-05      | 2.99E-09          |
| 195         | 17        | Surface      | Thallium    | mg/kg        | 5.40E-01   | 7.40E-07         | 2.11E-06      | 1.59E-10          |
| 195         | 17        | Surface      | Total PAH   | mg/kg        | 3.16E-01   | 4.33E-07         | 3.21E-06      | 6.91E-09          |
| 492         | 1         | Surface      | Arsenic     | mg/kg        | 1.47E+01   | 2.01E-05         | 3.44E-05      | 4.33E-09          |
| 492         | 1         | Surface      | Beryllium   | mg/kg        | 1.04E+01   | 1.42E-05         | 5.68E-06      | 3.06E-09          |
| 492         | 1         | Surface      | Cadmium     | mg/kg        | 3.14E+00   | 4.30E-06         | 2.45E-07      | 9.25E-10          |
| 492         | 1         | Surface      | Chromium    | mg/kg        | 1.04E+03   | 1.42E-03         | 4.06E-03      | 3.06E-07          |
| 492         | 1         | Surface      | PCB, Total  | mg/kg        | 4.41E+01   | 6.04E-05         | 4.82E-04      | 2.21E-05          |
| 492         | 1         | Surface      | Uranium     | mg/kg        | 1.77E+03   | 2.42E-03         | 6.91E-03      | 5.21E-07          |
| 492         | 1         | Surface      | Vanadium    | mg/kg        | 4.32E+01   | 5.92E-05         | 8.77E-05      | 1.27E-08          |
| 493         | 1         | Surface      | Aluminum    | mg/kg        | 1.44E+04   | 1.97E-02         | 5.62E-02      | 4.24E-06          |
| 493         | 1         | Surface      | Barium      | mg/kg        | 4.04E+02   | 5.53E-04         | 1.58E-03      | 1.19E-07          |
| 493         | 1         | Surface      | Beryllium   | mg/kg        | 9.91E-01   | 1.36E-06         | 5.42E-07      | 2.92E-10          |
| 493         | 1         | Surface      | Chromium    | mg/kg        | 6.61E+01   | 9.05E-05         | 2.58E-04      | 1.95E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 493         | 1         | Surface      | Cobalt      | mg/kg        | 3.79E+01   | 5.19E-05         | 1.48E-04      | 1.12E-08          |
| 493         | 1         | Surface      | Manganese   | mg/kg        | 3.55E+03   | 4.86E-03         | 1.11E-02      | 1.05E-06          |
| 493         | 1         | Surface      | Mercury     | mg/kg        | 2.60E-01   | 3.56E-07         | 1.02E-06      | 2.30E-06          |
| 493         | 1         | Surface      | Nickel      | mg/kg        | 2.13E+02   | 2.92E-04         | 6.65E-04      | 6.27E-08          |
| 493         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 3.56E-07         | 2.84E-06      | 1.30E-07          |
| 493         | 1         | Surface      | Total PAH   | mg/kg        | 5.00E-01   | 6.85E-07         | 5.08E-06      | 1.09E-08          |
| 493         | 1         | Surface      | Vanadium    | mg/kg        | 4.05E+01   | 5.55E-05         | 8.22E-05      | 1.19E-08          |
| 517         | 1         | Surface      | Beryllium   | mg/kg        | 7.39E-01   | 1.01E-06         | 4.04E-07      | 2.18E-10          |
| 517         | 1         | Surface      | Chromium    | mg/kg        | 4.91E+01   | 6.73E-05         | 1.92E-04      | 1.45E-08          |
| 517         | 1         | Surface      | Nickel      | mg/kg        | 1.72E+02   | 2.36E-04         | 5.37E-04      | 5.06E-08          |
| 517         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 6.85E-07         | 5.47E-06      | 2.50E-07          |
| 541         | 1         | Surface      | Aluminum    | mg/kg        | 1.43E+04   | 1.96E-02         | 5.58E-02      | 4.21E-06          |
| 541         | 1         | Surface      | Barium      | mg/kg        | 1.28E+02   | 1.75E-04         | 5.00E-04      | 3.77E-08          |
| 541         | 1         | Surface      | Beryllium   | mg/kg        | 6.98E-01   | 9.56E-07         | 3.82E-07      | 2.06E-10          |
| 541         | 1         | Surface      | Cadmium     | mg/kg        | 1.68E+00   | 2.30E-06         | 1.31E-07      | 4.95E-10          |
| 541         | 1         | Surface      | Chromium    | mg/kg        | 8.24E+02   | 1.13E-03         | 3.22E-03      | 2.43E-07          |
| 541         | 1         | Surface      | Iron        | mg/kg        | 1.60E+04   | 2.19E-02         | 6.23E-02      | 4.70E-06          |
| 541         | 1         | Surface      | Mercury     | mg/kg        | 9.81E-02   | 1.34E-07         | 3.83E-07      | 8.67E-07          |
| 541         | 1         | Surface      | Naphthalene | mg/kg        | 6.55E-01   | 8.97E-07         | 1.28E-05      | 6.48E-06          |
| 541         | 1         | Surface      | Nickel      | mg/kg        | 1.52E+01   | 2.09E-05         | 4.76E-05      | 4.49E-09          |
| 541         | 1         | Surface      | PCB, Total  | mg/kg        | 6.06E+01   | 8.30E-05         | 6.63E-04      | 3.03E-05          |
| 541         | 1         | Surface      | Total PAH   | mg/kg        | 2.33E+00   | 3.19E-06         | 2.36E-05      | 5.09E-08          |
| 541         | 1         | Surface      | Uranium     | mg/kg        | 6.38E+03   | 8.74E-03         | 2.49E-02      | 1.88E-06          |
| 541         | 1         | Surface      | Vanadium    | mg/kg        | 3.04E+01   | 4.17E-05         | 6.18E-05      | 8.96E-09          |
| 561         | 1         | Surface      | Antimony    | mg/kg        | 9.36E-01   | 1.28E-06         | 3.65E-06      | 2.76E-10          |
| 561         | 1         | Surface      | Arsenic     | mg/kg        | 1.66E+01   | 2.27E-05         | 3.88E-05      | 4.87E-09          |
| 561         | 1         | Surface      | Barium      | mg/kg        | 1.40E+02   | 1.92E-04         | 5.47E-04      | 4.13E-08          |
| 561         | 1         | Surface      | Beryllium   | mg/kg        | 6.85E-01   | 9.38E-07         | 3.74E-07      | 2.02E-10          |
| 561         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 1.18E-04         | 3.35E-04      | 2.53E-08          |
| 561         | 1         | Surface      | Cobalt      | mg/kg        | 1.07E+01   | 1.46E-05         | 4.17E-05      | 3.15E-09          |
| 561         | 1         | Surface      | Iron        | mg/kg        | 2.05E+04   | 2.80E-02         | 7.99E-02      | 6.03E-06          |
| 561         | 1         | Surface      | Manganese   | mg/kg        | 1.61E+03   | 2.20E-03         | 5.03E-03      | 4.74E-07          |
| 561         | 1         | Surface      | PCB, Total  | mg/kg        | 1.04E+00   | 1.43E-06         | 1.14E-05      | 5.21E-07          |
| 561         | 1         | Surface      | Thallium    | mg/kg        | 3.33E-01   | 4.56E-07         | 1.30E-06      | 9.81E-11          |
| 561         | 1         | Surface      | Total PAH   | mg/kg        | 3.94E-01   | 5.40E-07         | 4.00E-06      | 8.61E-09          |
| 561         | 1         | Surface      | Uranium     | mg/kg        | 2.65E+02   | 3.63E-04         | 1.03E-03      | 7.80E-08          |
| 561         | 1         | Surface      | Vanadium    | mg/kg        | 3.76E+01   | 5.16E-05         | 7.64E-05      | 1.11E-08          |
| 561         | 2         | Surface      | Antimony    | mg/kg        | 5.33E+00   | 7.31E-06         | 2.08E-05      | 1.57E-09          |
| 561         | 2         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 1.78E-05         | 3.05E-05      | 3.83E-09          |
| 561         | 2         | Surface      | Beryllium   | mg/kg        | 6.34E-01   | 8.68E-07         | 3.47E-07      | 1.87E-10          |
| 561         | 2         | Surface      | Cadmium     | mg/kg        | 4.13E-01   | 5.66E-07         | 3.22E-08      | 1.22E-10          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 561         | 2         | Surface      | Chromium    | mg/kg        | 2.88E+02   | 3.95E-04         | 1.13E-03      | 8.49E-08          |
| 561         | 2         | Surface      | Cobalt      | mg/kg        | 1.14E+01   | 1.56E-05         | 4.45E-05      | 3.36E-09          |
| 561         | 2         | Surface      | Manganese   | mg/kg        | 1.12E+03   | 1.53E-03         | 3.48E-03      | 3.28E-07          |
| 561         | 2         | Surface      | PCB, Total  | mg/kg        | 1.64E+01   | 2.25E-05         | 1.79E-04      | 8.21E-06          |
| 561         | 2         | Surface      | Thallium    | mg/kg        | 4.09E-01   | 5.60E-07         | 1.60E-06      | 1.20E-10          |
| 561         | 2         | Surface      | Total PAH   | mg/kg        | 2.43E+00   | 3.33E-06         | 2.47E-05      | 5.31E-08          |
| 561         | 2         | Surface      | Uranium     | mg/kg        | 1.38E+03   | 1.89E-03         | 5.40E-03      | 4.07E-07          |
| 561         | 2         | Surface      | Vanadium    | mg/kg        | 3.46E+01   | 4.73E-05         | 7.01E-05      | 1.02E-08          |
| 562         | 1         | Surface      | Uranium     | mg/kg        | 8.73E+01   | 1.20E-04         | 3.41E-04      | 2.57E-08          |
| 562         | 2         | Surface      | PCB, Total  | mg/kg        | 1.58E+00   | 2.16E-06         | 1.73E-05      | 7.90E-07          |
| 562         | 3         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 5.23E-05         | 1.49E-04      | 1.12E-08          |
| 562         | 3         | Surface      | PCB, Total  | mg/kg        | 2.40E-01   | 3.29E-07         | 2.62E-06      | 1.20E-07          |
| 562         | 3         | Surface      | Total PAH   | mg/kg        | 2.20E-01   | 3.01E-07         | 2.23E-06      | 4.81E-09          |
| 562         | 3         | Surface      | Uranium     | mg/kg        | 5.89E+01   | 8.07E-05         | 2.30E-04      | 1.73E-08          |
| 562         | 4         | Surface      | Chromium    | mg/kg        | 4.67E+01   | 6.39E-05         | 1.82E-04      | 1.37E-08          |
| 562         | 4         | Surface      | Uranium     | mg/kg        | 2.10E+01   | 2.88E-05         | 8.19E-05      | 6.18E-09          |
| 562         | 5         | Surface      | Chromium    | mg/kg        | 1.53E+02   | 2.10E-04         | 5.98E-04      | 4.51E-08          |
| 562         | 5         | Surface      | PCB, Total  | mg/kg        | 9.50E-01   | 1.30E-06         | 1.04E-05      | 4.75E-07          |
| 562         | 5         | Surface      | Total PAH   | mg/kg        | 7.05E-02   | 9.66E-08         | 7.16E-07      | 1.54E-09          |
| 562         | 5         | Surface      | Uranium     | mg/kg        | 2.08E+02   | 2.85E-04         | 8.12E-04      | 6.13E-08          |
| 563         | 1         | Surface      | Cadmium     | mg/kg        | 8.96E-01   | 1.23E-06         | 7.00E-08      | 2.64E-10          |
| 563         | 1         | Surface      | Chromium    | mg/kg        | 2.85E+02   | 3.90E-04         | 1.11E-03      | 8.39E-08          |
| 563         | 1         | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 1.01E-06         | 8.09E-06      | 3.70E-07          |
| 563         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 2.07E-05         | 5.89E-05      | 4.44E-09          |
| 564         | 1         | Surface      | Arsenic     | mg/kg        | 4.30E+01   | 5.89E-05         | 1.01E-04      | 1.27E-08          |
| 564         | 1         | Surface      | Beryllium   | mg/kg        | 2.12E+00   | 2.90E-06         | 1.16E-06      | 6.24E-10          |
| 564         | 1         | Surface      | Cadmium     | mg/kg        | 1.96E+00   | 2.68E-06         | 1.53E-07      | 5.77E-10          |
| 564         | 1         | Surface      | Chromium    | mg/kg        | 7.49E+01   | 1.03E-04         | 2.92E-04      | 2.21E-08          |
| 564         | 1         | Surface      | Iron        | mg/kg        | 3.66E+04   | 5.01E-02         | 1.43E-01      | 1.08E-05          |
| 564         | 1         | Surface      | Mercury     | mg/kg        | 2.30E-01   | 3.15E-07         | 8.98E-07      | 2.03E-06          |
| 564         | 1         | Surface      | Nickel      | mg/kg        | 2.24E+01   | 3.07E-05         | 7.00E-05      | 6.60E-09          |
| 564         | 1         | Surface      | PCB, Total  | mg/kg        | 1.93E+00   | 2.64E-06         | 2.11E-05      | 9.65E-07          |
| 564         | 1         | Surface      | Thallium    | mg/kg        | 2.36E+00   | 3.23E-06         | 9.21E-06      | 6.95E-10          |
| 564         | 1         | Surface      | Uranium     | mg/kg        | 5.83E+01   | 7.99E-05         | 2.28E-04      | 1.72E-08          |
| 564         | 1         | Surface      | Vanadium    | mg/kg        | 8.06E+01   | 1.10E-04         | 1.64E-04      | 2.37E-08          |
| 567         | 3         | Surface      | Chromium    | mg/kg        | 3.79E+01   | 5.19E-05         | 1.48E-04      | 1.12E-08          |
| 567         | 4         | Surface      | Aluminum    | mg/kg        | 1.25E+04   | 1.72E-02         | 4.89E-02      | 3.69E-06          |
| 567         | 4         | Surface      | Chromium    | mg/kg        | 1.63E+01   | 2.23E-05         | 6.36E-05      | 4.80E-09          |
| 14          | 1         | Surface      | Arsenic     | mg/kg        | 1.10E+01   | 1.50E-05         | 2.57E-05      | 3.23E-09          |
| 14          | 1         | Surface      | Chromium    | mg/kg        | 6.36E+01   | 8.71E-05         | 2.48E-04      | 1.87E-08          |
| 14          | 1         | Surface      | Iron        | mg/kg        | 1.89E+04   | 2.58E-02         | 7.36E-02      | 5.55E-06          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 1         | Surface      | Nickel      | mg/kg        | 1.40E+02   | 1.91E-04         | 4.36E-04      | 4.11E-08          |
| 14          | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 6.85E-07         | 5.47E-06      | 2.50E-07          |
| 14          | 1         | Surface      | Silver      | mg/kg        | 1.67E+01   | 2.29E-05         | 5.21E-05      | 4.91E-09          |
| 14          | 1         | Surface      | Uranium     | mg/kg        | 7.21E+01   | 9.88E-05         | 2.82E-04      | 2.12E-08          |
| 14          | 2         | Surface      | Antimony    | mg/kg        | 3.70E+00   | 5.07E-06         | 1.44E-05      | 1.09E-09          |
| 14          | 2         | Surface      | Arsenic     | mg/kg        | 1.45E+01   | 1.99E-05         | 3.40E-05      | 4.28E-09          |
| 14          | 2         | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 9.73E-07         | 3.88E-07      | 2.09E-10          |
| 14          | 2         | Surface      | Chromium    | mg/kg        | 6.65E+01   | 9.12E-05         | 2.60E-04      | 1.96E-08          |
| 14          | 2         | Surface      | Copper      | mg/kg        | 1.76E+02   | 2.42E-04         | 6.89E-04      | 5.19E-08          |
| 14          | 2         | Surface      | Iron        | mg/kg        | 3.72E+04   | 5.09E-02         | 1.45E-01      | 1.10E-05          |
| 14          | 2         | Surface      | Manganese   | mg/kg        | 1.44E+03   | 1.98E-03         | 4.50E-03      | 4.25E-07          |
| 14          | 2         | Surface      | Mercury     | mg/kg        | 2.67E-01   | 3.66E-07         | 1.04E-06      | 2.36E-06          |
| 14          | 2         | Surface      | Nickel      | mg/kg        | 6.78E+02   | 9.29E-04         | 2.12E-03      | 2.00E-07          |
| 14          | 2         | Surface      | PCB, Total  | mg/kg        | 3.90E-01   | 5.34E-07         | 4.26E-06      | 1.95E-07          |
| 14          | 2         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 4.63E-07         | 3.43E-06      | 7.39E-09          |
| 14          | 2         | Surface      | Uranium     | mg/kg        | 2.93E+02   | 4.02E-04         | 1.15E-03      | 8.64E-08          |
| 14          | 3         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 1.78E-05         | 3.04E-05      | 3.82E-09          |
| 14          | 3         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 9.61E-05         | 2.74E-04      | 2.07E-08          |
| 14          | 3         | Surface      | Copper      | mg/kg        | 1.29E+02   | 1.77E-04         | 5.05E-04      | 3.81E-08          |
| 14          | 3         | Surface      | Iron        | mg/kg        | 3.48E+04   | 4.77E-02         | 1.36E-01      | 1.03E-05          |
| 14          | 3         | Surface      | Manganese   | mg/kg        | 1.06E+03   | 1.45E-03         | 3.30E-03      | 3.11E-07          |
| 14          | 3         | Surface      | Mercury     | mg/kg        | 7.48E+00   | 1.02E-05         | 2.92E-05      | 6.61E-05          |
| 14          | 3         | Surface      | Molybdenum  | mg/kg        | 2.21E+01   | 3.02E-05         | 8.62E-05      | 6.50E-09          |
| 14          | 3         | Surface      | Nickel      | mg/kg        | 5.76E+02   | 7.90E-04         | 1.80E-03      | 1.70E-07          |
| 14          | 3         | Surface      | PCB, Total  | mg/kg        | 8.65E+00   | 1.18E-05         | 9.45E-05      | 4.32E-06          |
| 14          | 3         | Surface      | Uranium     | mg/kg        | 2.18E+02   | 2.98E-04         | 8.50E-04      | 6.41E-08          |
| 14          | 4         | Surface      | Antimony    | mg/kg        | 4.30E+00   | 5.89E-06         | 1.68E-05      | 1.27E-09          |
| 14          | 4         | Surface      | Arsenic     | mg/kg        | 1.33E+01   | 1.82E-05         | 3.11E-05      | 3.91E-09          |
| 14          | 4         | Surface      | Chromium    | mg/kg        | 7.20E+01   | 9.87E-05         | 2.81E-04      | 2.12E-08          |
| 14          | 4         | Surface      | Copper      | mg/kg        | 3.54E+02   | 4.84E-04         | 1.38E-03      | 1.04E-07          |
| 14          | 4         | Surface      | Iron        | mg/kg        | 3.88E+04   | 5.32E-02         | 1.52E-01      | 1.14E-05          |
| 14          | 4         | Surface      | Mercury     | mg/kg        | 4.87E-01   | 6.67E-07         | 1.90E-06      | 4.30E-06          |
| 14          | 4         | Surface      | Nickel      | mg/kg        | 7.31E+02   | 1.00E-03         | 2.28E-03      | 2.15E-07          |
| 14          | 4         | Surface      | PCB, Total  | mg/kg        | 6.61E+00   | 9.05E-06         | 7.22E-05      | 3.30E-06          |
| 14          | 4         | Surface      | Silver      | mg/kg        | 1.17E+01   | 1.60E-05         | 3.65E-05      | 3.45E-09          |
| 14          | 4         | Surface      | Total PAH   | mg/kg        | 2.51E-01   | 3.44E-07         | 2.55E-06      | 5.48E-09          |
| 14          | 4         | Surface      | Uranium     | mg/kg        | 3.72E+02   | 5.09E-04         | 1.45E-03      | 1.09E-07          |
| 14          | 5         | Surface      | Antimony    | mg/kg        | 2.30E+00   | 3.15E-06         | 8.98E-06      | 6.77E-10          |
| 14          | 5         | Surface      | Arsenic     | mg/kg        | 1.31E+01   | 1.79E-05         | 3.06E-05      | 3.85E-09          |
| 14          | 5         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 5.34E-06         | 3.05E-07      | 1.15E-09          |
| 14          | 5         | Surface      | Chromium    | mg/kg        | 4.70E+01   | 6.43E-05         | 1.83E-04      | 1.38E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 5         | Surface      | Cobalt      | mg/kg        | 1.40E+01   | 1.92E-05         | 5.47E-05      | 4.12E-09          |
| 14          | 5         | Surface      | Copper      | mg/kg        | 1.34E+02   | 1.83E-04         | 5.21E-04      | 3.93E-08          |
| 14          | 5         | Surface      | Iron        | mg/kg        | 3.92E+04   | 5.37E-02         | 1.53E-01      | 1.15E-05          |
| 14          | 5         | Surface      | Manganese   | mg/kg        | 8.28E+02   | 1.13E-03         | 2.58E-03      | 2.44E-07          |
| 14          | 5         | Surface      | Mercury     | mg/kg        | 1.09E+01   | 1.50E-05         | 4.27E-05      | 9.67E-05          |
| 14          | 5         | Surface      | Nickel      | mg/kg        | 4.61E+02   | 6.32E-04         | 1.44E-03      | 1.36E-07          |
| 14          | 5         | Surface      | PCB, Total  | mg/kg        | 1.00E+00   | 1.37E-06         | 1.09E-05      | 5.00E-07          |
| 14          | 5         | Surface      | Silver      | mg/kg        | 1.29E+01   | 1.76E-05         | 4.02E-05      | 3.79E-09          |
| 14          | 5         | Surface      | Thallium    | mg/kg        | 4.10E-01   | 5.62E-07         | 1.60E-06      | 1.21E-10          |
| 14          | 5         | Surface      | Total PAH   | mg/kg        | 1.21E-01   | 1.66E-07         | 1.23E-06      | 2.64E-09          |
| 14          | 5         | Surface      | Uranium     | mg/kg        | 2.62E+02   | 3.59E-04         | 1.02E-03      | 7.72E-08          |
| 14          | 6         | Surface      | Antimony    | mg/kg        | 2.70E+00   | 3.70E-06         | 1.05E-05      | 7.95E-10          |
| 14          | 6         | Surface      | Cadmium     | mg/kg        | 8.40E-01   | 1.15E-06         | 6.56E-08      | 2.47E-10          |
| 14          | 6         | Surface      | Chromium    | mg/kg        | 4.46E+02   | 6.11E-04         | 1.74E-03      | 1.31E-07          |
| 14          | 6         | Surface      | Copper      | mg/kg        | 1.22E+02   | 1.68E-04         | 4.77E-04      | 3.60E-08          |
| 14          | 6         | Surface      | Mercury     | mg/kg        | 3.47E-01   | 4.75E-07         | 1.35E-06      | 3.07E-06          |
| 14          | 6         | Surface      | Nickel      | mg/kg        | 9.63E+02   | 1.32E-03         | 3.01E-03      | 2.84E-07          |
| 14          | 6         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 6.85E-06         | 5.47E-05      | 2.50E-06          |
| 14          | 6         | Surface      | Silver      | mg/kg        | 1.19E+01   | 1.63E-05         | 3.71E-05      | 3.50E-09          |
| 14          | 6         | Surface      | Uranium     | mg/kg        | 5.79E+02   | 7.93E-04         | 2.26E-03      | 1.70E-07          |
| 14          | 7         | Surface      | Antimony    | mg/kg        | 7.50E-01   | 1.03E-06         | 2.93E-06      | 2.21E-10          |
| 14          | 7         | Surface      | Arsenic     | mg/kg        | 1.13E+01   | 1.55E-05         | 2.65E-05      | 3.33E-09          |
| 14          | 7         | Surface      | Cadmium     | mg/kg        | 2.70E+00   | 3.70E-06         | 2.11E-07      | 7.95E-10          |
| 14          | 7         | Surface      | Chromium    | mg/kg        | 6.46E+01   | 8.84E-05         | 2.52E-04      | 1.90E-08          |
| 14          | 7         | Surface      | Mercury     | mg/kg        | 7.82E+00   | 1.07E-05         | 3.05E-05      | 6.91E-05          |
| 14          | 7         | Surface      | Nickel      | mg/kg        | 1.22E+03   | 1.68E-03         | 3.82E-03      | 3.60E-07          |
| 14          | 7         | Surface      | PCB, Total  | mg/kg        | 7.60E+00   | 1.04E-05         | 8.31E-05      | 3.80E-06          |
| 14          | 7         | Surface      | Total PAH   | mg/kg        | 6.31E-02   | 8.65E-08         | 6.41E-07      | 1.38E-09          |
| 14          | 7         | Surface      | Uranium     | mg/kg        | 3.33E+02   | 4.56E-04         | 1.30E-03      | 9.80E-08          |
| 14          | 8         | Surface      | Antimony    | mg/kg        | 6.10E-01   | 8.36E-07         | 2.38E-06      | 1.80E-10          |
| 14          | 8         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 1.56E-05         | 2.67E-05      | 3.35E-09          |
| 14          | 8         | Surface      | Chromium    | mg/kg        | 4.60E+01   | 6.31E-05         | 1.80E-04      | 1.36E-08          |
| 14          | 8         | Surface      | Mercury     | mg/kg        | 7.90E+00   | 1.08E-05         | 3.08E-05      | 6.98E-05          |
| 14          | 8         | Surface      | Nickel      | mg/kg        | 6.73E+02   | 9.21E-04         | 2.10E-03      | 1.98E-07          |
| 14          | 8         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 6.85E-06         | 5.47E-05      | 2.50E-06          |
| 14          | 8         | Surface      | Silver      | mg/kg        | 9.63E+00   | 1.32E-05         | 3.01E-05      | 2.84E-09          |
| 14          | 8         | Surface      | Total PAH   | mg/kg        | 6.28E-02   | 8.60E-08         | 6.37E-07      | 1.37E-09          |
| 14          | 8         | Surface      | Uranium     | mg/kg        | 3.35E+02   | 4.59E-04         | 1.31E-03      | 9.87E-08          |
| 14          | 9         | Surface      | Antimony    | mg/kg        | 2.00E+00   | 2.74E-06         | 7.81E-06      | 5.89E-10          |
| 14          | 9         | Surface      | Arsenic     | mg/kg        | 1.40E+01   | 1.92E-05         | 3.29E-05      | 4.13E-09          |
| 14          | 9         | Surface      | Cadmium     | mg/kg        | 9.40E-01   | 1.29E-06         | 7.34E-08      | 2.77E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 9         | Surface      | Chromium    | mg/kg        | 4.64E+01   | 6.36E-05         | 1.81E-04      | 1.37E-08          |
| 14          | 9         | Surface      | Mercury     | mg/kg        | 1.13E+00   | 1.55E-06         | 4.41E-06      | 9.98E-06          |
| 14          | 9         | Surface      | Nickel      | mg/kg        | 9.43E+02   | 1.29E-03         | 2.95E-03      | 2.78E-07          |
| 14          | 9         | Surface      | PCB, Total  | mg/kg        | 6.84E+00   | 9.37E-06         | 7.48E-05      | 3.42E-06          |
| 14          | 9         | Surface      | Total PAH   | mg/kg        | 4.87E-01   | 6.68E-07         | 4.95E-06      | 1.07E-08          |
| 14          | 9         | Surface      | Uranium     | mg/kg        | 1.46E+03   | 2.01E-03         | 5.72E-03      | 4.31E-07          |
| 14          | 10        | Surface      | Antimony    | mg/kg        | 9.40E-01   | 1.29E-06         | 3.67E-06      | 2.77E-10          |
| 14          | 10        | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 1.54E-05         | 2.63E-05      | 3.31E-09          |
| 14          | 10        | Surface      | Chromium    | mg/kg        | 4.19E+01   | 5.73E-05         | 1.63E-04      | 1.23E-08          |
| 14          | 10        | Surface      | Copper      | mg/kg        | 1.41E+02   | 1.93E-04         | 5.51E-04      | 4.16E-08          |
| 14          | 10        | Surface      | Iron        | mg/kg        | 2.75E+04   | 3.76E-02         | 1.07E-01      | 8.08E-06          |
| 14          | 10        | Surface      | Mercury     | mg/kg        | 2.51E+01   | 3.44E-05         | 9.80E-05      | 2.22E-04          |
| 14          | 10        | Surface      | Nickel      | mg/kg        | 6.00E+02   | 8.22E-04         | 1.88E-03      | 1.77E-07          |
| 14          | 10        | Surface      | PCB, Total  | mg/kg        | 9.38E+00   | 1.29E-05         | 1.03E-04      | 4.69E-06          |
| 14          | 10        | Surface      | Total PAH   | mg/kg        | 2.72E-01   | 3.72E-07         | 2.76E-06      | 5.93E-09          |
| 14          | 10        | Surface      | Uranium     | mg/kg        | 2.88E+02   | 3.95E-04         | 1.13E-03      | 8.49E-08          |
| 518         | 1         | Surface      | Carbazole   | mg/kg        | 1.17E+01   | 1.61E-05         | 9.15E-05      | 1.61E-06          |
| 518         | 1         | Surface      | Cobalt      | mg/kg        | 6.80E+00   | 9.32E-06         | 2.66E-05      | 2.00E-09          |
| 518         | 1         | Surface      | Nickel      | mg/kg        | 1.29E+01   | 1.76E-05         | 4.02E-05      | 3.79E-09          |
| 518         | 1         | Surface      | PCB, Total  | mg/kg        | 6.30E-01   | 8.63E-07         | 6.89E-06      | 3.15E-07          |
| 518         | 1         | Surface      | Pyrene      | mg/kg        | 3.94E+01   | 5.40E-05         | 4.00E-04      | 7.67E-06          |
| 518         | 1         | Surface      | Total PAH   | mg/kg        | 3.90E+01   | 5.34E-05         | 3.95E-04      | 8.52E-07          |
| 518         | 1         | Surface      | Uranium     | mg/kg        | 2.17E+02   | 2.97E-04         | 8.47E-04      | 6.39E-08          |
| 520         | 1         | Surface      | Chromium    | mg/kg        | 3.17E+01   | 4.35E-05         | 1.24E-04      | 9.34E-09          |
| 520         | 1         | Surface      | Iron        | mg/kg        | 1.56E+04   | 2.14E-02         | 6.09E-02      | 4.59E-06          |
| 520         | 1         | Surface      | Mercury     | mg/kg        | 1.07E+01   | 1.46E-05         | 4.17E-05      | 9.44E-05          |
| 520         | 1         | Surface      | Nickel      | mg/kg        | 2.60E+02   | 3.57E-04         | 8.13E-04      | 7.67E-08          |
| 520         | 1         | Surface      | Silver      | mg/kg        | 1.30E+01   | 1.78E-05         | 4.05E-05      | 3.82E-09          |
| 520         | 1         | Surface      | Total PAH   | mg/kg        | 3.18E-02   | 4.36E-08         | 3.23E-07      | 6.96E-10          |
| 520         | 1         | Surface      | Uranium     | mg/kg        | 2.29E+01   | 3.14E-05         | 8.96E-05      | 6.76E-09          |
| 520         | 2         | Surface      | Beryllium   | mg/kg        | 5.79E-01   | 7.93E-07         | 3.16E-07      | 1.71E-10          |
| 520         | 2         | Surface      | Chromium    | mg/kg        | 6.67E+01   | 9.13E-05         | 2.60E-04      | 1.96E-08          |
| 520         | 2         | Surface      | Manganese   | mg/kg        | 5.89E+02   | 8.07E-04         | 1.84E-03      | 1.74E-07          |
| 520         | 2         | Surface      | Mercury     | mg/kg        | 1.19E+01   | 1.63E-05         | 4.64E-05      | 1.05E-04          |
| 520         | 2         | Surface      | Nickel      | mg/kg        | 3.11E+02   | 4.25E-04         | 9.70E-04      | 9.14E-08          |
| 520         | 2         | Surface      | Total PAH   | mg/kg        | 3.17E-01   | 4.34E-07         | 3.22E-06      | 6.93E-09          |
| 520         | 2         | Surface      | Uranium     | mg/kg        | 3.96E+01   | 5.42E-05         | 1.54E-04      | 1.16E-08          |
| 520         | 3         | Surface      | Chromium    | mg/kg        | 3.97E+01   | 5.44E-05         | 1.55E-04      | 1.17E-08          |
| 520         | 3         | Surface      | Copper      | mg/kg        | 1.19E+02   | 1.63E-04         | 4.65E-04      | 3.50E-08          |
| 520         | 3         | Surface      | Nickel      | mg/kg        | 2.65E+02   | 3.63E-04         | 8.27E-04      | 7.80E-08          |
| 520         | 3         | Surface      | Silver      | mg/kg        | 1.27E+01   | 1.74E-05         | 3.96E-05      | 3.73E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.17. Noncancerous CDIs for the Adult Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 520         | 3         | Surface      | Total PAH   | mg/kg        | 1.18E-01   | 1.62E-07         | 1.20E-06      | 2.58E-09          |
| 520         | 3         | Surface      | Uranium     | mg/kg        | 1.92E+01   | 2.63E-05         | 7.51E-05      | 5.66E-09          |
| 520         | 4         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 5.24E-05         | 1.49E-04      | 1.13E-08          |
| 520         | 4         | Surface      | Copper      | mg/kg        | 1.11E+02   | 1.52E-04         | 4.32E-04      | 3.26E-08          |
| 520         | 4         | Surface      | Mercury     | mg/kg        | 9.69E+00   | 1.33E-05         | 3.78E-05      | 8.56E-05          |
| 520         | 4         | Surface      | Nickel      | mg/kg        | 2.82E+02   | 3.86E-04         | 8.80E-04      | 8.30E-08          |
| 520         | 4         | Surface      | Silver      | mg/kg        | 1.04E+01   | 1.43E-05         | 3.26E-05      | 3.07E-09          |
| 520         | 4         | Surface      | Total PAH   | mg/kg        | 5.52E-01   | 7.57E-07         | 5.61E-06      | 1.21E-08          |
| 520         | 4         | Surface      | Uranium     | mg/kg        | 2.40E+01   | 3.29E-05         | 9.38E-05      | 7.07E-09          |
| 520         | 5         | Surface      | Antimony    | mg/kg        | 9.60E-01   | 1.32E-06         | 3.75E-06      | 2.83E-10          |
| 520         | 5         | Surface      | Chromium    | mg/kg        | 3.68E+01   | 5.04E-05         | 1.44E-04      | 1.08E-08          |
| 520         | 5         | Surface      | Nickel      | mg/kg        | 1.47E+02   | 2.01E-04         | 4.59E-04      | 4.33E-08          |
| 520         | 5         | Surface      | Total PAH   | mg/kg        | 3.87E-01   | 5.30E-07         | 3.93E-06      | 8.46E-09          |
| 81          | 1         | Surface      | Aluminum    | mg/kg        | 9.57E+03   | 1.31E-02         | 3.74E-02      | 2.82E-06          |
| 81          | 1         | Surface      | Arsenic     | mg/kg        | 1.03E+01   | 1.40E-05         | 2.40E-05      | 3.02E-09          |
| 81          | 1         | Surface      | Beryllium   | mg/kg        | 7.57E-01   | 1.04E-06         | 4.14E-07      | 2.23E-10          |
| 81          | 1         | Surface      | Chromium    | mg/kg        | 8.62E+01   | 1.18E-04         | 3.37E-04      | 2.54E-08          |
| 81          | 1         | Surface      | Mercury     | mg/kg        | 8.33E+00   | 1.14E-05         | 3.25E-05      | 7.36E-05          |
| 81          | 1         | Surface      | Nickel      | mg/kg        | 7.29E+01   | 9.98E-05         | 2.28E-04      | 2.15E-08          |
| 81          | 1         | Surface      | PCB, Total  | mg/kg        | 1.60E+02   | 2.19E-04         | 1.75E-03      | 7.99E-05          |
| 81          | 1         | Surface      | Silver      | mg/kg        | 2.70E+00   | 3.70E-06         | 8.43E-06      | 7.95E-10          |
| 81          | 1         | Surface      | Total PAH   | mg/kg        | 5.53E-01   | 7.58E-07         | 5.61E-06      | 1.21E-08          |
| 81          | 1         | Surface      | Uranium     | mg/kg        | 6.50E+03   | 8.90E-03         | 2.54E-02      | 1.91E-06          |
| 153         | 1         | Surface      | PCB, Total  | mg/kg        | 5.09E-01   | 6.97E-07         | 5.56E-06      | 2.55E-07          |
| 153         | 1         | Surface      | Total PAH   | mg/kg        | 8.69E-02   | 1.19E-07         | 8.82E-07      | 1.90E-09          |
| 156         | 1         | Surface      | Chromium    | mg/kg        | 4.90E+01   | 6.72E-05         | 1.91E-04      | 1.44E-08          |
| 156         | 1         | Surface      | Manganese   | mg/kg        | 2.83E+03   | 3.88E-03         | 8.85E-03      | 8.34E-07          |
| 156         | 1         | Surface      | Mercury     | mg/kg        | 9.87E+00   | 1.35E-05         | 3.85E-05      | 8.72E-05          |
| 156         | 1         | Surface      | Nickel      | mg/kg        | 6.16E+01   | 8.44E-05         | 1.92E-04      | 1.81E-08          |
| 156         | 1         | Surface      | PCB, Total  | mg/kg        | 3.00E-01   | 4.11E-07         | 3.28E-06      | 1.50E-07          |
| 156         | 1         | Surface      | Total PAH   | mg/kg        | 8.26E-02   | 1.13E-07         | 8.38E-07      | 1.81E-09          |
| 156         | 1         | Surface      | Uranium     | mg/kg        | 2.32E+01   | 3.18E-05         | 9.05E-05      | 6.83E-09          |
| 160         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 9.32E-07         | 2.65E-06      | 2.00E-10          |
| 160         | 1         | Surface      | Total PAH   | mg/kg        | 5.29E-02   | 7.25E-08         | 5.37E-07      | 1.16E-09          |
| 163         | 1         | Surface      | Chromium    | mg/kg        | 4.94E+01   | 6.77E-05         | 1.93E-04      | 1.46E-08          |
| 163         | 1         | Surface      | Total PAH   | mg/kg        | 1.63E-01   | 2.23E-07         | 1.65E-06      | 3.56E-09          |
| 219         | 1         | Surface      | Nickel      | mg/kg        | 6.71E+01   | 9.20E-05         | 2.10E-04      | 1.98E-08          |
| 219         | 1         | Surface      | Total PAH   | mg/kg        | 7.50E-02   | 1.03E-07         | 7.62E-07      | 1.64E-09          |
| 488         | 1         | Surface      | PCB, Total  | mg/kg        | 1.03E+01   | 1.41E-05         | 1.13E-04      | 5.15E-06          |
| 488         | 1         | Surface      | Total PAH   | mg/kg        | 2.50E-01   | 3.42E-07         | 2.54E-06      | 5.46E-09          |
| 488         | 1         | Surface      | Uranium     | mg/kg        | 1.48E+01   | 2.03E-05         | 5.78E-05      | 4.36E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 1    | 1  | Surface | Beryllium         | mg/kg | 3.89E+00 | 1.83E-06  | 7.30E-07 | 3.93E-10   |                   |
| 1    | 1  | Surface | Cadmium           | mg/kg | 1.10E+00 | 5.17E-07  | 2.94E-08 | 1.11E-10   |                   |
| 1    | 1  | Surface | Chromium          | mg/kg | 1.28E+01 | 6.02E-06  | 1.72E-05 | 1.29E-09   |                   |
| 1    | 1  | Surface | PCB, Total        | mg/kg | 1.76E-01 | 8.27E-08  | 6.60E-07 | 3.02E-08   |                   |
| 1    | 1  | Surface | Cesium-137        | pCi/g | 5.91E-01 | 4.96E+02  |          | 1.07E-01   | 1.09E+01          |
| 1    | 1  | Surface | Neptunium-237     | pCi/g | 4.02E-01 | 3.38E+02  |          | 7.26E-02   | 7.40E+00          |
| 1    | 1  | Surface | Plutonium-239/240 | pCi/g | 6.14E+00 | 5.16E+03  |          | 1.11E+00   | 1.13E+02          |
| 1    | 1  | Surface | Thorium-230       | pCi/g | 4.40E+01 | 3.70E+04  |          | 7.95E+00   | 8.10E+02          |
| 1    | 1  | Surface | Uranium-235       | pCi/g | 1.06E-01 | 8.90E+01  |          | 1.91E-02   | 1.95E+00          |
| 1    | 1  | Surface | Uranium-238       | pCi/g | 1.97E+00 | 1.66E+03  |          | 3.56E-01   | 3.63E+01          |
| 1    | 2  | Surface | Beryllium         | mg/kg | 8.23E+00 | 3.86E-06  | 1.54E-06 | 8.31E-10   |                   |
| 1    | 2  | Surface | Cadmium           | mg/kg | 6.46E+00 | 3.03E-06  | 1.73E-07 | 6.52E-10   |                   |
| 1    | 2  | Surface | Chromium          | mg/kg | 2.01E+02 | 9.45E-05  | 2.69E-04 | 2.03E-08   |                   |
| 1    | 2  | Surface | Copper            | mg/kg | 1.81E+02 | 8.50E-05  | 2.42E-04 | 1.83E-08   |                   |
| 1    | 2  | Surface | Mercury           | mg/kg | 5.94E+00 | 2.79E-06  | 7.95E-06 | 1.80E-05   |                   |
| 1    | 2  | Surface | Nickel            | mg/kg | 5.75E+01 | 2.70E-05  | 6.15E-05 | 5.80E-09   |                   |
| 1    | 2  | Surface | PCB, Total        | mg/kg | 3.21E+01 | 1.51E-05  | 1.20E-04 | 5.51E-06   |                   |
| 1    | 2  | Surface | Silver            | mg/kg | 3.31E+01 | 1.56E-05  | 3.55E-05 | 3.35E-09   |                   |
| 1    | 2  | Surface | Thallium          | mg/kg | 3.70E-01 | 1.74E-07  | 4.95E-07 | 3.74E-11   |                   |
| 1    | 2  | Surface | Vanadium          | mg/kg | 3.49E+01 | 1.64E-05  | 2.43E-05 | 3.52E-09   |                   |
| 1    | 3  | Surface | Chromium          | mg/kg | 1.45E+01 | 6.80E-06  | 1.94E-05 | 1.46E-09   |                   |
| 1    | 3  | Surface | PCB, Total        | mg/kg | 2.17E-01 | 1.02E-07  | 8.13E-07 | 3.72E-08   |                   |
| 1    | 3  | Surface | Uranium-238       | pCi/g | 1.73E+00 | 1.45E+03  |          | 3.12E-01   | 3.19E+01          |
| 1    | 4  | Surface | Beryllium         | mg/kg | 7.25E-01 | 3.41E-07  | 1.36E-07 | 7.32E-11   |                   |
| 1    | 4  | Surface | Chromium          | mg/kg | 9.30E+01 | 4.37E-05  | 1.25E-04 | 9.39E-09   |                   |
| 1    | 4  | Surface | Nickel            | mg/kg | 4.69E+01 | 2.20E-05  | 5.02E-05 | 4.73E-09   |                   |
| 1    | 4  | Surface | PCB, Total        | mg/kg | 1.30E-01 | 6.11E-08  | 4.87E-07 | 2.23E-08   |                   |
| 1    | 4  | Surface | Cobalt-60         | pCi/g | 2.20E-02 | 1.85E+01  |          | 3.97E-03   | 4.05E-01          |
| 1    | 4  | Surface | Thorium-230       | pCi/g | 5.03E+00 | 4.23E+03  |          | 9.08E-01   | 9.26E+01          |
| 1    | 5  | Surface | Beryllium         | mg/kg | 8.30E+00 | 3.90E-06  | 1.56E-06 | 8.38E-10   |                   |
| 1    | 5  | Surface | Cadmium           | mg/kg | 1.20E+00 | 5.64E-07  | 3.21E-08 | 1.21E-10   |                   |
| 1    | 5  | Surface | Nickel            | mg/kg | 4.07E+01 | 1.91E-05  | 4.36E-05 | 4.11E-09   |                   |
| 1    | 5  | Surface | PCB, Total        | mg/kg | 2.70E-01 | 1.27E-07  | 1.01E-06 | 4.63E-08   |                   |
| 1    | 5  | Surface | Total PAH         | mg/kg | 9.83E-02 | 4.62E-08  | 3.42E-07 | 7.37E-10   |                   |
| 99   | 1  | Surface | Chromium          | mg/kg | 5.51E+01 | 2.59E-05  | 7.38E-05 | 5.56E-09   |                   |
| 99   | 1  | Surface | Mercury           | mg/kg | 9.53E+00 | 4.48E-06  | 1.28E-05 | 2.89E-05   |                   |
| 99   | 1  | Surface | Nickel            | mg/kg | 7.02E+01 | 3.30E-05  | 7.52E-05 | 7.09E-09   |                   |
| 99   | 1  | Surface | Silver            | mg/kg | 1.03E+01 | 4.84E-06  | 1.10E-05 | 1.04E-09   |                   |
| 99   | 1  | Surface | Cobalt-60         | pCi/g | 1.19E-02 | 1.00E+01  |          | 2.15E-03   | 2.19E-01          |
| 99   | 1  | Surface | Uranium-238       | pCi/g | 9.45E-01 | 7.94E+02  |          | 1.71E-01   | 1.74E+01          |
| 194  | 1  | Surface | Antimony          | mg/kg | 1.50E+00 | 7.05E-07  | 2.01E-06 | 1.51E-10   |                   |
| 194  | 1  | Surface | Chromium          | mg/kg | 3.87E+01 | 1.82E-05  | 5.18E-05 | 3.91E-09   |                   |
| 194  | 1  | Surface | Mercury           | mg/kg | 6.71E+00 | 3.15E-06  | 8.98E-06 | 2.03E-05   |                   |
| 194  | 1  | Surface | Nickel            | mg/kg | 5.84E+01 | 2.74E-05  | 6.26E-05 | 5.90E-09   |                   |
| 194  | 1  | Surface | Silver            | mg/kg | 1.09E+01 | 5.13E-06  | 1.17E-05 | 1.10E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 2  | Surface | Chromium    | mg/kg | 5.96E+01 | 2.80E-05  | 7.98E-05 | 6.02E-09   |                   |
| 194  | 2  | Surface | Silver      | mg/kg | 1.31E+01 | 6.17E-06  | 1.41E-05 | 1.33E-09   |                   |
| 194  | 2  | Surface | Uranium     | mg/kg | 2.28E+01 | 1.07E-05  | 3.05E-05 | 2.30E-09   |                   |
| 194  | 2  | Surface | Uranium-238 | pCi/g | 1.42E+00 | 1.19E+03  |          | 2.56E-01   | 2.61E+01          |
| 194  | 3  | Surface | Antimony    | mg/kg | 6.90E-01 | 3.24E-07  | 9.24E-07 | 6.97E-11   |                   |
| 194  | 3  | Surface | Arsenic     | mg/kg | 1.46E+01 | 6.88E-06  | 1.18E-05 | 1.48E-09   |                   |
| 194  | 3  | Surface | Chromium    | mg/kg | 3.90E+01 | 1.83E-05  | 5.22E-05 | 3.94E-09   |                   |
| 194  | 3  | Surface | Nickel      | mg/kg | 6.40E+01 | 3.01E-05  | 6.86E-05 | 6.47E-09   |                   |
| 194  | 3  | Surface | Total PAH   | mg/kg | 3.93E-02 | 1.85E-08  | 1.37E-07 | 2.95E-10   |                   |
| 194  | 3  | Surface | Uranium-238 | pCi/g | 1.28E+00 | 1.08E+03  |          | 2.32E-01   | 2.36E+01          |
| 194  | 4  | Surface | Chromium    | mg/kg | 4.84E+01 | 2.27E-05  | 6.48E-05 | 4.89E-09   |                   |
| 194  | 4  | Surface | Mercury     | mg/kg | 8.92E+00 | 4.19E-06  | 1.19E-05 | 2.70E-05   |                   |
| 194  | 4  | Surface | Nickel      | mg/kg | 6.91E+01 | 3.24E-05  | 7.40E-05 | 6.97E-09   |                   |
| 194  | 4  | Surface | Silver      | mg/kg | 1.18E+01 | 5.53E-06  | 1.26E-05 | 1.19E-09   |                   |
| 194  | 4  | Surface | Total PAH   | mg/kg | 7.30E-02 | 3.43E-08  | 2.54E-07 | 5.47E-10   |                   |
| 194  | 4  | Surface | Uranium-238 | pCi/g | 1.73E+00 | 1.45E+03  |          | 3.12E-01   | 3.19E+01          |
| 194  | 5  | Surface | Chromium    | mg/kg | 4.58E+01 | 2.15E-05  | 6.13E-05 | 4.62E-09   |                   |
| 194  | 5  | Surface | Mercury     | mg/kg | 8.69E+00 | 4.08E-06  | 1.16E-05 | 2.63E-05   |                   |
| 194  | 5  | Surface | Nickel      | mg/kg | 7.54E+01 | 3.54E-05  | 8.08E-05 | 7.62E-09   |                   |
| 194  | 5  | Surface | Silver      | mg/kg | 1.25E+01 | 5.85E-06  | 1.33E-05 | 1.26E-09   |                   |
| 194  | 5  | Surface | Total PAH   | mg/kg | 2.37E-02 | 1.11E-08  | 8.25E-08 | 1.78E-10   |                   |
| 194  | 5  | Surface | Uranium-238 | pCi/g | 1.38E+00 | 1.16E+03  |          | 2.49E-01   | 2.54E+01          |
| 194  | 6  | Surface | Chromium    | mg/kg | 3.70E+01 | 1.74E-05  | 4.95E-05 | 3.74E-09   |                   |
| 194  | 6  | Surface | Manganese   | mg/kg | 1.08E+03 | 5.07E-04  | 1.16E-03 | 1.09E-07   |                   |
| 194  | 6  | Surface | Nickel      | mg/kg | 8.06E+01 | 3.79E-05  | 8.63E-05 | 8.14E-09   |                   |
| 194  | 6  | Surface | Silver      | mg/kg | 9.89E+00 | 4.65E-06  | 1.06E-05 | 9.99E-10   |                   |
| 194  | 6  | Surface | Uranium-238 | pCi/g | 1.32E+00 | 1.11E+03  |          | 2.38E-01   | 2.43E+01          |
| 194  | 7  | Surface | Chromium    | mg/kg | 5.32E+01 | 2.50E-05  | 7.12E-05 | 5.37E-09   |                   |
| 194  | 7  | Surface | Nickel      | mg/kg | 7.71E+01 | 3.62E-05  | 8.26E-05 | 7.79E-09   |                   |
| 194  | 7  | Surface | Silver      | mg/kg | 1.25E+01 | 5.87E-06  | 1.34E-05 | 1.26E-09   |                   |
| 194  | 8  | Surface | Chromium    | mg/kg | 5.36E+01 | 2.52E-05  | 7.17E-05 | 5.41E-09   |                   |
| 194  | 8  | Surface | Manganese   | mg/kg | 8.00E+02 | 3.76E-04  | 8.57E-04 | 8.08E-08   |                   |
| 194  | 8  | Surface | Total PAH   | mg/kg | 4.85E-01 | 2.28E-07  | 1.69E-06 | 3.63E-09   |                   |
| 194  | 8  | Surface | Uranium-238 | pCi/g | 1.39E+00 | 1.17E+03  |          | 2.51E-01   | 2.56E+01          |
| 194  | 9  | Surface | Arsenic     | mg/kg | 1.14E+01 | 5.36E-06  | 9.17E-06 | 1.15E-09   |                   |
| 194  | 9  | Surface | Chromium    | mg/kg | 5.17E+01 | 2.43E-05  | 6.91E-05 | 5.21E-09   |                   |
| 194  | 10 | Surface | Arsenic     | mg/kg | 1.22E+01 | 5.71E-06  | 9.77E-06 | 1.23E-09   |                   |
| 194  | 10 | Surface | Chromium    | mg/kg | 3.63E+01 | 1.70E-05  | 4.86E-05 | 3.66E-09   |                   |
| 194  | 10 | Surface | Nickel      | mg/kg | 7.60E+01 | 3.57E-05  | 8.14E-05 | 7.67E-09   |                   |
| 194  | 10 | Surface | Total PAH   | mg/kg | 2.57E-01 | 1.21E-07  | 8.95E-07 | 1.93E-09   |                   |
| 194  | 10 | Surface | Cesium-137  | pCi/g | 5.81E-01 | 4.88E+02  |          | 1.05E-01   | 1.07E+01          |
| 194  | 10 | Surface | Uranium-238 | pCi/g | 1.49E+00 | 1.25E+03  |          | 2.69E-01   | 2.74E+01          |
| 194  | 11 | Surface | Chromium    | mg/kg | 3.27E+01 | 1.53E-05  | 4.37E-05 | 3.30E-09   |                   |
| 194  | 11 | Surface | Mercury     | mg/kg | 8.09E+00 | 3.80E-06  | 1.08E-05 | 2.45E-05   |                   |
| 194  | 11 | Surface | Nickel      | mg/kg | 1.01E+02 | 4.73E-05  | 1.08E-04 | 1.02E-08   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration



**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 11 | Surface | PCB, Total | mg/kg | 8.40E-02 | 3.95E-08  | 3.15E-07 | 1.44E-08   |                   |
| 194  | 11 | Surface | Silver     | mg/kg | 1.33E+01 | 6.24E-06  | 1.42E-05 | 1.34E-09   |                   |
| 194  | 11 | Surface | Total PAH  | mg/kg | 7.95E-02 | 3.74E-08  | 2.77E-07 | 5.96E-10   |                   |
| 194  | 12 | Surface | Chromium   | mg/kg | 6.34E+01 | 2.98E-05  | 8.48E-05 | 6.40E-09   |                   |
| 194  | 12 | Surface | Nickel     | mg/kg | 7.86E+01 | 3.69E-05  | 8.42E-05 | 7.94E-09   |                   |
| 194  | 12 | Surface | Silver     | mg/kg | 1.20E+01 | 5.63E-06  | 1.28E-05 | 1.21E-09   |                   |
| 194  | 12 | Surface | Total PAH  | mg/kg | 8.91E-01 | 4.19E-07  | 3.10E-06 | 6.68E-09   |                   |
| 194  | 13 | Surface | Chromium   | mg/kg | 4.77E+01 | 2.24E-05  | 6.38E-05 | 4.81E-09   |                   |
| 194  | 13 | Surface | Nickel     | mg/kg | 6.03E+01 | 2.83E-05  | 6.46E-05 | 6.09E-09   |                   |
| 194  | 13 | Surface | Total PAH  | mg/kg | 9.13E-02 | 4.29E-08  | 3.18E-07 | 6.85E-10   |                   |
| 194  | 14 | Surface | Chromium   | mg/kg | 5.21E+01 | 2.45E-05  | 6.98E-05 | 5.26E-09   |                   |
| 194  | 14 | Surface | Mercury    | mg/kg | 8.14E+00 | 3.82E-06  | 1.09E-05 | 2.47E-05   |                   |
| 194  | 15 | Surface | Chromium   | mg/kg | 5.33E+01 | 2.50E-05  | 7.14E-05 | 5.38E-09   |                   |
| 194  | 15 | Surface | Silver     | mg/kg | 1.03E+01 | 4.84E-06  | 1.10E-05 | 1.04E-09   |                   |
| 194  | 16 | Surface | Antimony   | mg/kg | 7.40E-01 | 3.48E-07  | 9.91E-07 | 7.47E-11   |                   |
| 194  | 16 | Surface | Arsenic    | mg/kg | 1.15E+01 | 5.41E-06  | 9.25E-06 | 1.16E-09   |                   |
| 194  | 16 | Surface | Beryllium  | mg/kg | 8.70E-01 | 4.09E-07  | 1.63E-07 | 8.78E-11   |                   |
| 194  | 16 | Surface | Chromium   | mg/kg | 5.32E+01 | 2.50E-05  | 7.13E-05 | 5.38E-09   |                   |
| 194  | 16 | Surface | Nickel     | mg/kg | 7.20E+01 | 3.38E-05  | 7.71E-05 | 7.27E-09   |                   |
| 194  | 16 | Surface | Thallium   | mg/kg | 6.30E-01 | 2.96E-07  | 8.43E-07 | 6.36E-11   |                   |
| 194  | 16 | Surface | Vanadium   | mg/kg | 4.11E+01 | 1.93E-05  | 2.86E-05 | 4.15E-09   |                   |
| 194  | 17 | Surface | Arsenic    | mg/kg | 1.16E+01 | 5.42E-06  | 9.28E-06 | 1.17E-09   |                   |
| 194  | 17 | Surface | Cadmium    | mg/kg | 1.10E+00 | 5.17E-07  | 2.94E-08 | 1.11E-10   |                   |
| 194  | 17 | Surface | Chromium   | mg/kg | 4.65E+01 | 2.18E-05  | 6.22E-05 | 4.69E-09   |                   |
| 194  | 17 | Surface | Total PAH  | mg/kg | 1.59E-01 | 7.45E-08  | 5.52E-07 | 1.19E-09   |                   |
| 194  | 18 | Surface | Arsenic    | mg/kg | 1.06E+01 | 4.96E-06  | 8.49E-06 | 1.07E-09   |                   |
| 194  | 18 | Surface | Beryllium  | mg/kg | 7.40E-01 | 3.48E-07  | 1.39E-07 | 7.47E-11   |                   |
| 194  | 18 | Surface | Chromium   | mg/kg | 6.85E+01 | 3.22E-05  | 9.17E-05 | 6.91E-09   |                   |
| 194  | 18 | Surface | Nickel     | mg/kg | 5.78E+01 | 2.71E-05  | 6.19E-05 | 5.83E-09   |                   |
| 194  | 19 | Surface | Arsenic    | mg/kg | 1.07E+01 | 5.02E-06  | 8.59E-06 | 1.08E-09   |                   |
| 194  | 19 | Surface | Chromium   | mg/kg | 4.84E+01 | 2.27E-05  | 6.47E-05 | 4.88E-09   |                   |
| 194  | 19 | Surface | Nickel     | mg/kg | 5.84E+01 | 2.74E-05  | 6.25E-05 | 5.89E-09   |                   |
| 194  | 20 | Surface | Arsenic    | mg/kg | 1.18E+01 | 5.56E-06  | 9.51E-06 | 1.20E-09   |                   |
| 194  | 20 | Surface | Barium     | mg/kg | 3.26E+02 | 1.53E-04  | 4.36E-04 | 3.29E-08   |                   |
| 194  | 20 | Surface | Beryllium  | mg/kg | 1.10E+00 | 5.17E-07  | 2.06E-07 | 1.11E-10   |                   |
| 194  | 20 | Surface | Chromium   | mg/kg | 5.24E+01 | 2.46E-05  | 7.01E-05 | 5.29E-09   |                   |
| 194  | 20 | Surface | Cobalt     | mg/kg | 2.11E+01 | 9.91E-06  | 2.82E-05 | 2.13E-09   |                   |
| 194  | 20 | Surface | Manganese  | mg/kg | 2.29E+03 | 1.08E-03  | 2.46E-03 | 2.32E-07   |                   |
| 194  | 20 | Surface | Mercury    | mg/kg | 7.28E+00 | 3.42E-06  | 9.74E-06 | 2.21E-05   |                   |
| 194  | 20 | Surface | Nickel     | mg/kg | 6.57E+01 | 3.09E-05  | 7.04E-05 | 6.63E-09   |                   |
| 194  | 20 | Surface | Silver     | mg/kg | 1.22E+01 | 5.74E-06  | 1.31E-05 | 1.23E-09   |                   |
| 194  | 20 | Surface | Total PAH  | mg/kg | 3.10E-02 | 1.46E-08  | 1.08E-07 | 2.32E-10   |                   |
| 194  | 20 | Surface | Vanadium   | mg/kg | 3.81E+01 | 1.79E-05  | 2.65E-05 | 3.85E-09   |                   |
| 194  | 21 | Surface | Antimony   | mg/kg | 9.30E-01 | 4.37E-07  | 1.24E-06 | 9.39E-11   |                   |
| 194  | 21 | Surface | Chromium   | mg/kg | 5.51E+01 | 2.59E-05  | 7.37E-05 | 5.56E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 21 | Surface | Mercury     | mg/kg | 6.62E+00 | 3.11E-06  | 8.86E-06 | 2.01E-05   |                   |
| 194  | 21 | Surface | Nickel      | mg/kg | 7.01E+01 | 3.29E-05  | 7.51E-05 | 7.08E-09   |                   |
| 194  | 21 | Surface | Thallium    | mg/kg | 6.40E-01 | 3.01E-07  | 8.57E-07 | 6.46E-11   |                   |
| 194  | 22 | Surface | Chromium    | mg/kg | 4.90E+01 | 2.30E-05  | 6.56E-05 | 4.95E-09   |                   |
| 194  | 22 | Surface | Manganese   | mg/kg | 8.19E+02 | 3.85E-04  | 8.77E-04 | 8.27E-08   |                   |
| 194  | 22 | Surface | PCB, Total  | mg/kg | 1.09E+01 | 5.13E-06  | 4.09E-05 | 1.87E-06   |                   |
| 194  | 23 | Surface | Arsenic     | mg/kg | 1.16E+01 | 5.42E-06  | 9.28E-06 | 1.17E-09   |                   |
| 194  | 23 | Surface | Chromium    | mg/kg | 6.60E+01 | 3.10E-05  | 8.83E-05 | 6.66E-09   |                   |
| 194  | 23 | Surface | Iron        | mg/kg | 1.83E+04 | 8.59E-03  | 2.45E-02 | 1.85E-06   |                   |
| 194  | 23 | Surface | Nickel      | mg/kg | 8.77E+01 | 4.12E-05  | 9.39E-05 | 8.85E-09   |                   |
| 194  | 23 | Surface | Silver      | mg/kg | 1.15E+01 | 5.39E-06  | 1.23E-05 | 1.16E-09   |                   |
| 194  | 24 | Surface | Chromium    | mg/kg | 5.02E+01 | 2.36E-05  | 6.72E-05 | 5.07E-09   |                   |
| 194  | 24 | Surface | Nickel      | mg/kg | 7.08E+01 | 3.32E-05  | 7.58E-05 | 7.15E-09   |                   |
| 194  | 24 | Surface | Total PAH   | mg/kg | 2.28E-02 | 1.07E-08  | 7.93E-08 | 1.71E-10   |                   |
| 194  | 25 | Surface | Barium      | mg/kg | 3.00E+02 | 1.41E-04  | 4.02E-04 | 3.03E-08   |                   |
| 194  | 25 | Surface | Chromium    | mg/kg | 6.13E+01 | 2.88E-05  | 8.20E-05 | 6.18E-09   |                   |
| 194  | 25 | Surface | Manganese   | mg/kg | 9.96E+02 | 4.68E-04  | 1.07E-03 | 1.01E-07   |                   |
| 194  | 25 | Surface | Nickel      | mg/kg | 6.33E+01 | 2.97E-05  | 6.78E-05 | 6.39E-09   |                   |
| 194  | 25 | Surface | Total PAH   | mg/kg | 2.06E-02 | 9.68E-09  | 7.17E-08 | 1.54E-10   |                   |
| 194  | 26 | Surface | Beryllium   | mg/kg | 7.00E-01 | 3.29E-07  | 1.31E-07 | 7.07E-11   |                   |
| 194  | 26 | Surface | Chromium    | mg/kg | 4.18E+01 | 1.96E-05  | 5.60E-05 | 4.22E-09   |                   |
| 194  | 26 | Surface | Silver      | mg/kg | 1.03E+01 | 4.82E-06  | 1.10E-05 | 1.04E-09   |                   |
| 194  | 26 | Surface | Thallium    | mg/kg | 3.90E-01 | 1.83E-07  | 5.22E-07 | 3.94E-11   |                   |
| 194  | 27 | Surface | Chromium    | mg/kg | 5.22E+01 | 2.45E-05  | 6.98E-05 | 5.27E-09   |                   |
| 194  | 27 | Surface | Nickel      | mg/kg | 6.55E+01 | 3.08E-05  | 7.01E-05 | 6.61E-09   |                   |
| 194  | 27 | Surface | Silver      | mg/kg | 1.01E+01 | 4.75E-06  | 1.08E-05 | 1.02E-09   |                   |
| 194  | 28 | Surface | Arsenic     | mg/kg | 1.20E+01 | 5.65E-06  | 9.66E-06 | 1.21E-09   |                   |
| 194  | 28 | Surface | Beryllium   | mg/kg | 7.10E-01 | 3.33E-07  | 1.33E-07 | 7.17E-11   |                   |
| 194  | 28 | Surface | Chromium    | mg/kg | 6.07E+01 | 2.85E-05  | 8.13E-05 | 6.13E-09   |                   |
| 194  | 28 | Surface | Manganese   | mg/kg | 1.14E+03 | 5.34E-04  | 1.22E-03 | 1.15E-07   |                   |
| 194  | 28 | Surface | Nickel      | mg/kg | 6.95E+01 | 3.26E-05  | 7.44E-05 | 7.01E-09   |                   |
| 194  | 28 | Surface | Silver      | mg/kg | 1.08E+01 | 5.07E-06  | 1.16E-05 | 1.09E-09   |                   |
| 194  | 28 | Surface | Vanadium    | mg/kg | 4.06E+01 | 1.91E-05  | 2.83E-05 | 4.10E-09   |                   |
| 194  | 29 | Surface | Antimony    | mg/kg | 7.10E-01 | 3.33E-07  | 9.50E-07 | 7.17E-11   |                   |
| 194  | 29 | Surface | Chromium    | mg/kg | 5.06E+01 | 2.37E-05  | 6.77E-05 | 5.10E-09   |                   |
| 194  | 29 | Surface | Nickel      | mg/kg | 6.51E+01 | 3.06E-05  | 6.97E-05 | 6.57E-09   |                   |
| 194  | 29 | Surface | Silver      | mg/kg | 9.77E+00 | 4.59E-06  | 1.05E-05 | 9.86E-10   |                   |
| 194  | 30 | Surface | Chromium    | mg/kg | 5.66E+01 | 2.66E-05  | 7.57E-05 | 5.71E-09   |                   |
| 194  | 30 | Surface | Mercury     | mg/kg | 8.80E+00 | 4.13E-06  | 1.18E-05 | 2.67E-05   |                   |
| 194  | 30 | Surface | Nickel      | mg/kg | 6.99E+01 | 3.28E-05  | 7.48E-05 | 7.05E-09   |                   |
| 194  | 30 | Surface | Silver      | mg/kg | 9.76E+00 | 4.58E-06  | 1.05E-05 | 9.85E-10   |                   |
| 194  | 31 | Surface | Cesium-137  | pCi/g | 5.70E-01 | 4.79E+02  |          | 1.03E-01   | 1.05E+01          |
| 194  | 31 | Surface | Uranium-238 | pCi/g | 1.72E+00 | 1.44E+03  |          | 3.11E-01   | 3.17E+01          |
| 196  | 1  | Surface | Antimony    | mg/kg | 5.90E-01 | 2.77E-07  | 7.90E-07 | 5.96E-11   |                   |
| 196  | 1  | Surface | Chromium    | mg/kg | 1.96E+01 | 9.21E-06  | 2.62E-05 | 1.98E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 196  | 1  | Surface | Nickel        | mg/kg | 5.56E+02 | 2.61E-04  | 5.95E-04 | 5.61E-08   |                   |
| 196  | 1  | Surface | Uranium       | mg/kg | 2.33E+01 | 1.09E-05  | 3.12E-05 | 2.35E-09   |                   |
| 196  | 1  | Surface | Neptunium-237 | pCi/g | 3.11E-01 | 2.61E+02  |          | 5.62E-02   | 5.73E+00          |
| 196  | 1  | Surface | Uranium-238   | pCi/g | 1.54E+00 | 1.29E+03  |          | 2.78E-01   | 2.84E+01          |
| 196  | 2  | Surface | Barium        | mg/kg | 2.02E+02 | 9.49E-05  | 2.70E-04 | 2.04E-08   |                   |
| 196  | 2  | Surface | Cadmium       | mg/kg | 2.53E+00 | 1.19E-06  | 6.77E-08 | 2.55E-10   |                   |
| 196  | 2  | Surface | Chromium      | mg/kg | 2.07E+01 | 9.72E-06  | 2.77E-05 | 2.09E-09   |                   |
| 196  | 2  | Surface | Nickel        | mg/kg | 7.36E+01 | 3.46E-05  | 7.88E-05 | 7.43E-09   |                   |
| 196  | 2  | Surface | PCB, Total    | mg/kg | 1.51E+00 | 7.09E-07  | 5.66E-06 | 2.59E-07   |                   |
| 196  | 2  | Surface | Total PAH     | mg/kg | 6.80E-01 | 3.19E-07  | 2.37E-06 | 5.10E-09   |                   |
| 196  | 2  | Surface | Uranium-238   | pCi/g | 2.21E+00 | 1.86E+03  |          | 3.99E-01   | 4.07E+01          |
| 489  | 1  | Surface | Chromium      | mg/kg | 4.16E+01 | 1.96E-05  | 5.57E-05 | 4.20E-09   |                   |
| 489  | 1  | Surface | Nickel        | mg/kg | 7.88E+01 | 3.70E-05  | 8.44E-05 | 7.96E-09   |                   |
| 489  | 1  | Surface | Total PAH     | mg/kg | 8.22E-02 | 3.86E-08  | 2.86E-07 | 6.16E-10   |                   |
| 489  | 1  | Surface | Uranium-238   | pCi/g | 1.47E+00 | 1.23E+03  |          | 2.65E-01   | 2.71E+01          |
| 531  | 1  | Surface | Antimony      | mg/kg | 1.00E+00 | 4.70E-07  | 1.34E-06 | 1.01E-10   |                   |
| 531  | 1  | Surface | Arsenic       | mg/kg | 4.68E+01 | 2.20E-05  | 3.76E-05 | 4.73E-09   |                   |
| 531  | 1  | Surface | Cadmium       | mg/kg | 3.10E+00 | 1.46E-06  | 8.30E-08 | 3.13E-10   |                   |
| 531  | 1  | Surface | Chromium      | mg/kg | 5.05E+01 | 2.37E-05  | 6.75E-05 | 5.09E-09   |                   |
| 531  | 1  | Surface | Iron          | mg/kg | 5.68E+04 | 2.67E-02  | 7.61E-02 | 5.74E-06   |                   |
| 531  | 1  | Surface | Nickel        | mg/kg | 1.62E+02 | 7.62E-05  | 1.74E-04 | 1.64E-08   |                   |
| 531  | 1  | Surface | Total PAH     | mg/kg | 5.34E-02 | 2.51E-08  | 1.86E-07 | 4.00E-10   |                   |
| 531  | 1  | Surface | Uranium       | mg/kg | 2.41E+01 | 1.13E-05  | 3.22E-05 | 2.43E-09   |                   |
| 531  | 1  | Surface | Zinc          | mg/kg | 2.45E+03 | 1.15E-03  | 3.28E-03 | 2.48E-07   |                   |
| 531  | 1  | Surface | Uranium-235   | pCi/g | 1.38E-01 | 1.16E+02  |          | 2.49E-02   | 2.54E+00          |
| 531  | 1  | Surface | Uranium-238   | pCi/g | 3.48E+00 | 2.92E+03  |          | 6.28E-01   | 6.41E+01          |
| 200  | 1  | Surface | Antimony      | mg/kg | 5.60E-01 | 2.63E-07  | 7.50E-07 | 5.65E-11   |                   |
| 200  | 1  | Surface | Chromium      | mg/kg | 5.75E+01 | 2.70E-05  | 7.70E-05 | 5.81E-09   |                   |
| 200  | 1  | Surface | Mercury       | mg/kg | 6.71E+00 | 3.15E-06  | 8.98E-06 | 2.03E-05   |                   |
| 200  | 1  | Surface | Nickel        | mg/kg | 1.28E+02 | 6.01E-05  | 1.37E-04 | 1.29E-08   |                   |
| 200  | 1  | Surface | PCB, Total    | mg/kg | 2.60E+00 | 1.22E-06  | 9.74E-06 | 4.46E-07   |                   |
| 200  | 1  | Surface | Total PAH     | mg/kg | 2.84E-02 | 1.33E-08  | 9.88E-08 | 2.13E-10   |                   |
| 200  | 1  | Surface | Uranium       | mg/kg | 2.73E+01 | 1.28E-05  | 3.65E-05 | 2.76E-09   |                   |
| 200  | 1  | Surface | Cesium-137    | pCi/g | 5.74E-01 | 4.82E+02  |          | 1.04E-01   | 1.06E+01          |
| 200  | 1  | Surface | Uranium-235   | pCi/g | 1.43E-01 | 1.20E+02  |          | 2.58E-02   | 2.63E+00          |
| 200  | 1  | Surface | Uranium-238   | pCi/g | 3.58E+00 | 3.00E+03  |          | 6.46E-01   | 6.59E+01          |
| 212  | 1  | Surface | Arsenic       | mg/kg | 1.44E+01 | 6.77E-06  | 1.16E-05 | 1.46E-09   |                   |
| 212  | 1  | Surface | Beryllium     | mg/kg | 8.10E-01 | 3.80E-07  | 1.52E-07 | 8.18E-11   |                   |
| 212  | 1  | Surface | Chromium      | mg/kg | 3.58E+01 | 1.68E-05  | 4.79E-05 | 3.61E-09   |                   |
| 212  | 1  | Surface | Iron          | mg/kg | 4.14E+04 | 1.94E-02  | 5.54E-02 | 4.18E-06   |                   |
| 212  | 1  | Surface | Nickel        | mg/kg | 8.69E+01 | 4.08E-05  | 9.31E-05 | 8.77E-09   |                   |
| 212  | 1  | Surface | PCB, Total    | mg/kg | 1.80E-01 | 8.45E-08  | 6.75E-07 | 3.09E-08   |                   |
| 212  | 1  | Surface | Uranium       | mg/kg | 2.30E+01 | 1.08E-05  | 3.08E-05 | 2.32E-09   |                   |
| 212  | 1  | Surface | Cesium-137    | pCi/g | 6.01E-01 | 5.05E+02  |          | 1.09E-01   | 1.11E+01          |
| 212  | 1  | Surface | Cobalt-60     | pCi/g | 8.76E-03 | 7.36E+00  |          | 1.58E-03   | 1.61E-01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 212  | 1  | Surface | Neptunium-237     | pCi/g | 4.00E+00 | 3.36E+03  |          | 7.22E-01   | 7.36E+01          |
| 212  | 1  | Surface | Plutonium-239/240 | pCi/g | 6.71E+00 | 5.64E+03  |          | 1.21E+00   | 1.24E+02          |
| 212  | 1  | Surface | Thorium-230       | pCi/g | 2.60E+02 | 2.18E+05  |          | 4.69E+01   | 4.79E+03          |
| 212  | 1  | Surface | Uranium-235       | pCi/g | 2.09E-01 | 1.76E+02  |          | 3.77E-02   | 3.85E+00          |
| 212  | 1  | Surface | Uranium-238       | pCi/g | 3.17E+00 | 2.66E+03  |          | 5.72E-01   | 5.84E+01          |
| 213  | 1  | Surface | Antimony          | mg/kg | 8.50E-01 | 3.99E-07  | 1.14E-06 | 8.58E-11   |                   |
| 213  | 1  | Surface | Chromium          | mg/kg | 4.78E+01 | 2.25E-05  | 6.40E-05 | 4.83E-09   |                   |
| 213  | 1  | Surface | Nickel            | mg/kg | 6.67E+01 | 3.13E-05  | 7.15E-05 | 6.74E-09   |                   |
| 213  | 1  | Surface | PCB, Total        | mg/kg | 7.30E-02 | 3.43E-08  | 2.74E-07 | 1.25E-08   |                   |
| 213  | 1  | Surface | Silver            | mg/kg | 1.32E+01 | 6.19E-06  | 1.41E-05 | 1.33E-09   |                   |
| 213  | 1  | Surface | Total PAH         | mg/kg | 1.72E-01 | 8.07E-08  | 5.98E-07 | 1.29E-09   |                   |
| 213  | 1  | Surface | Uranium-238       | pCi/g | 2.33E+00 | 1.96E+03  |          | 4.21E-01   | 4.29E+01          |
| 213  | 2  | Surface | Chromium          | mg/kg | 4.48E+01 | 2.10E-05  | 6.00E-05 | 4.52E-09   |                   |
| 213  | 2  | Surface | Nickel            | mg/kg | 9.10E+01 | 4.27E-05  | 9.74E-05 | 9.19E-09   |                   |
| 213  | 2  | Surface | Silver            | mg/kg | 1.13E+01 | 5.29E-06  | 1.21E-05 | 1.14E-09   |                   |
| 214  | 1  | Surface | Antimony          | mg/kg | 5.70E-01 | 2.68E-07  | 7.63E-07 | 5.75E-11   |                   |
| 215  | 1  | Surface | Antimony          | mg/kg | 6.80E-01 | 3.19E-07  | 9.10E-07 | 6.87E-11   |                   |
| 215  | 1  | Surface | Chromium          | mg/kg | 5.73E+01 | 2.69E-05  | 7.67E-05 | 5.79E-09   |                   |
| 215  | 1  | Surface | Iron              | mg/kg | 3.87E+04 | 1.82E-02  | 5.18E-02 | 3.91E-06   |                   |
| 215  | 1  | Surface | Nickel            | mg/kg | 7.32E+01 | 3.44E-05  | 7.83E-05 | 7.39E-09   |                   |
| 215  | 1  | Surface | Total PAH         | mg/kg | 8.09E-02 | 3.80E-08  | 2.81E-07 | 6.06E-10   |                   |
| 216  | 1  | Surface | Chromium          | mg/kg | 2.38E+01 | 1.12E-05  | 3.19E-05 | 2.40E-09   |                   |
| 216  | 1  | Surface | Total PAH         | mg/kg | 1.49E-01 | 7.01E-08  | 5.20E-07 | 1.12E-09   |                   |
| 216  | 1  | Surface | Uranium-238       | pCi/g | 1.33E+00 | 1.12E+03  |          | 2.40E-01   | 2.45E+01          |
| 217  | 1  | Surface | Chromium          | mg/kg | 8.58E+01 | 4.03E-05  | 1.15E-04 | 8.66E-09   |                   |
| 217  | 1  | Surface | Cobalt            | mg/kg | 1.96E+01 | 9.19E-06  | 2.62E-05 | 1.98E-09   |                   |
| 217  | 1  | Surface | Manganese         | mg/kg | 7.70E+02 | 3.62E-04  | 8.24E-04 | 7.77E-08   |                   |
| 217  | 1  | Surface | Nickel            | mg/kg | 8.54E+01 | 4.01E-05  | 9.15E-05 | 8.62E-09   |                   |
| 217  | 1  | Surface | Silver            | mg/kg | 1.35E+01 | 6.32E-06  | 1.44E-05 | 1.36E-09   |                   |
| 217  | 1  | Surface | Uranium-238       | pCi/g | 1.15E+00 | 9.69E+02  |          | 2.08E-01   | 2.12E+01          |
| 217  | 2  | Surface | Antimony          | mg/kg | 1.70E+00 | 7.98E-07  | 2.28E-06 | 1.72E-10   |                   |
| 217  | 2  | Surface | Arsenic           | mg/kg | 1.12E+01 | 5.24E-06  | 8.96E-06 | 1.13E-09   |                   |
| 217  | 2  | Surface | Chromium          | mg/kg | 1.02E+02 | 4.77E-05  | 1.36E-04 | 1.03E-08   |                   |
| 217  | 2  | Surface | Cobalt            | mg/kg | 1.74E+01 | 8.17E-06  | 2.33E-05 | 1.76E-09   |                   |
| 217  | 2  | Surface | Iron              | mg/kg | 3.09E+04 | 1.45E-02  | 4.14E-02 | 3.12E-06   |                   |
| 217  | 2  | Surface | Manganese         | mg/kg | 8.44E+02 | 3.96E-04  | 9.03E-04 | 8.52E-08   |                   |
| 217  | 2  | Surface | Mercury           | mg/kg | 8.59E+00 | 4.03E-06  | 1.15E-05 | 2.60E-05   |                   |
| 217  | 2  | Surface | Nickel            | mg/kg | 9.74E+01 | 4.57E-05  | 1.04E-04 | 9.83E-09   |                   |
| 217  | 2  | Surface | Silver            | mg/kg | 1.61E+01 | 7.56E-06  | 1.72E-05 | 1.62E-09   |                   |
| 217  | 2  | Surface | Total PAH         | mg/kg | 5.05E-01 | 2.37E-07  | 1.76E-06 | 3.78E-09   |                   |
| 221  | 1  | Surface | Barium            | mg/kg | 2.21E+02 | 1.04E-04  | 2.96E-04 | 2.23E-08   |                   |
| 221  | 1  | Surface | Chromium          | mg/kg | 7.01E+01 | 3.29E-05  | 9.39E-05 | 7.08E-09   |                   |
| 221  | 1  | Surface | Iron              | mg/kg | 1.90E+04 | 8.91E-03  | 2.54E-02 | 1.92E-06   |                   |
| 221  | 1  | Surface | Nickel            | mg/kg | 7.93E+01 | 3.72E-05  | 8.49E-05 | 8.00E-09   |                   |
| 221  | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 2.35E-07  | 1.87E-06 | 8.57E-08   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 221  | 1  | Surface | Total PAH     | mg/kg | 1.02E+00 | 4.80E-07  | 3.56E-06 | 7.66E-09   |                   |
| 221  | 1  | Surface | Uranium       | mg/kg | 1.64E+01 | 7.68E-06  | 2.19E-05 | 1.65E-09   |                   |
| 221  | 1  | Surface | Uranium-238   | pCi/g | 1.93E+00 | 1.62E+03  |          | 3.49E-01   | 3.55E+01          |
| 222  | 1  | Surface | Chromium      | mg/kg | 4.73E+01 | 2.22E-05  | 6.33E-05 | 4.78E-09   |                   |
| 222  | 1  | Surface | Nickel        | mg/kg | 9.19E+01 | 4.32E-05  | 9.84E-05 | 9.28E-09   |                   |
| 222  | 1  | Surface | PCB, Total    | mg/kg | 1.40E+00 | 6.58E-07  | 5.25E-06 | 2.40E-07   |                   |
| 222  | 1  | Surface | Total PAH     | mg/kg | 1.77E-01 | 8.32E-08  | 6.17E-07 | 1.33E-09   |                   |
| 222  | 1  | Surface | Uranium       | mg/kg | 2.80E+01 | 1.31E-05  | 3.75E-05 | 2.82E-09   |                   |
| 222  | 1  | Surface | Uranium-234   | pCi/g | 1.04E+01 | 8.74E+03  |          | 1.88E+00   | 1.91E+02          |
| 222  | 1  | Surface | Uranium-235   | pCi/g | 7.10E-01 | 5.96E+02  |          | 1.28E-01   | 1.31E+01          |
| 222  | 1  | Surface | Uranium-238   | pCi/g | 1.96E+01 | 1.65E+04  |          | 3.54E+00   | 3.61E+02          |
| 227  | 1  | Surface | Beryllium     | mg/kg | 5.52E-01 | 2.59E-07  | 1.03E-07 | 5.57E-11   |                   |
| 227  | 1  | Surface | Chromium      | mg/kg | 4.71E+01 | 2.21E-05  | 6.31E-05 | 4.76E-09   |                   |
| 227  | 1  | Surface | Nickel        | mg/kg | 2.03E+02 | 9.53E-05  | 2.17E-04 | 2.05E-08   |                   |
| 227  | 1  | Surface | PCB, Total    | mg/kg | 4.14E+00 | 1.95E-06  | 1.55E-05 | 7.10E-07   |                   |
| 227  | 1  | Surface | Total PAH     | mg/kg | 3.38E-01 | 1.59E-07  | 1.18E-06 | 2.53E-09   |                   |
| 227  | 1  | Surface | Uranium       | mg/kg | 1.02E+02 | 4.77E-05  | 1.36E-04 | 1.03E-08   |                   |
| 227  | 1  | Surface | Cesium-137    | pCi/g | 1.90E-01 | 1.60E+02  |          | 3.43E-02   | 3.50E+00          |
| 227  | 1  | Surface | Cobalt-60     | pCi/g | 1.53E-02 | 1.29E+01  |          | 2.76E-03   | 2.82E-01          |
| 227  | 1  | Surface | Neptunium-237 | pCi/g | 9.05E-01 | 7.60E+02  |          | 1.63E-01   | 1.67E+01          |
| 227  | 1  | Surface | Technetium-99 | pCi/g | 4.77E+01 | 4.01E+04  |          | 8.62E+00   | 8.79E+02          |
| 227  | 1  | Surface | Uranium-234   | pCi/g | 1.54E+01 | 1.30E+04  |          | 2.79E+00   | 2.84E+02          |
| 227  | 1  | Surface | Uranium-235   | pCi/g | 1.49E+00 | 1.25E+03  |          | 2.69E-01   | 2.74E+01          |
| 227  | 1  | Surface | Uranium-238   | pCi/g | 4.63E+01 | 3.89E+04  |          | 8.36E+00   | 8.52E+02          |
| 227  | 2  | Surface | Beryllium     | mg/kg | 5.32E-01 | 2.50E-07  | 9.97E-08 | 5.37E-11   |                   |
| 227  | 2  | Surface | Chromium      | mg/kg | 5.63E+01 | 2.64E-05  | 7.54E-05 | 5.69E-09   |                   |
| 227  | 2  | Surface | Cobalt        | mg/kg | 8.99E+00 | 4.22E-06  | 1.20E-05 | 9.07E-10   |                   |
| 227  | 2  | Surface | Mercury       | mg/kg | 8.41E+00 | 3.95E-06  | 1.13E-05 | 2.55E-05   |                   |
| 227  | 2  | Surface | Nickel        | mg/kg | 1.25E+02 | 5.87E-05  | 1.34E-04 | 1.26E-08   |                   |
| 227  | 2  | Surface | PCB, Total    | mg/kg | 5.82E+00 | 2.73E-06  | 2.18E-05 | 9.98E-07   |                   |
| 227  | 2  | Surface | Total PAH     | mg/kg | 1.16E-01 | 5.43E-08  | 4.03E-07 | 8.67E-10   |                   |
| 227  | 2  | Surface | Uranium       | mg/kg | 1.51E+01 | 7.07E-06  | 2.01E-05 | 1.52E-09   |                   |
| 227  | 2  | Surface | Cobalt-60     | pCi/g | 1.37E-02 | 1.15E+01  |          | 2.47E-03   | 2.52E-01          |
| 227  | 2  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 1.32E+03  |          | 2.84E-01   | 2.90E+01          |
| 228  | 1  | Surface | Antimony      | mg/kg | 6.30E-01 | 2.96E-07  | 8.43E-07 | 6.36E-11   |                   |
| 228  | 1  | Surface | Cadmium       | mg/kg | 3.90E+00 | 1.83E-06  | 1.04E-07 | 3.94E-10   |                   |
| 228  | 1  | Surface | Chromium      | mg/kg | 1.89E+02 | 8.87E-05  | 2.53E-04 | 1.91E-08   |                   |
| 228  | 1  | Surface | Mercury       | mg/kg | 9.37E+00 | 4.40E-06  | 1.25E-05 | 2.84E-05   |                   |
| 228  | 1  | Surface | Nickel        | mg/kg | 7.92E+01 | 3.72E-05  | 8.48E-05 | 7.99E-09   |                   |
| 228  | 1  | Surface | Silver        | mg/kg | 1.16E+01 | 5.46E-06  | 1.25E-05 | 1.17E-09   |                   |
| 228  | 1  | Surface | Total PAH     | mg/kg | 6.69E-02 | 3.14E-08  | 2.33E-07 | 5.01E-10   |                   |
| 228  | 1  | Surface | Uranium       | mg/kg | 1.51E+01 | 7.11E-06  | 2.03E-05 | 1.53E-09   |                   |
| 228  | 1  | Surface | Neptunium-237 | pCi/g | 8.00E-01 | 6.72E+02  |          | 1.44E-01   | 1.47E+01          |
| 228  | 1  | Surface | Uranium-235   | pCi/g | 1.78E-01 | 1.50E+02  |          | 3.21E-02   | 3.28E+00          |
| 228  | 1  | Surface | Uranium-238   | pCi/g | 3.77E+00 | 3.17E+03  |          | 6.81E-01   | 6.94E+01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 76   | 1  | Surface | Barium            | mg/kg | 2.69E+02 | 1.26E-04  | 3.60E-04 | 2.72E-08   |                   |
| 76   | 1  | Surface | PCB, Total        | mg/kg | 2.60E-01 | 1.22E-07  | 9.74E-07 | 4.46E-08   |                   |
| 76   | 1  | Surface | Total PAH         | mg/kg | 1.76E+00 | 8.26E-07  | 6.12E-06 | 1.32E-08   |                   |
| 76   | 1  | Surface | Uranium-238       | pCi/g | 1.45E+00 | 1.22E+03  |          | 2.62E-01   | 2.67E+01          |
| 165  | 1  | Surface | Antimony          | mg/kg | 2.20E+00 | 1.03E-06  | 2.94E-06 | 2.22E-10   |                   |
| 165  | 1  | Surface | Arsenic           | mg/kg | 6.35E+01 | 2.98E-05  | 5.10E-05 | 6.41E-09   |                   |
| 165  | 1  | Surface | Barium            | mg/kg | 5.84E+02 | 2.74E-04  | 7.82E-04 | 5.90E-08   |                   |
| 165  | 1  | Surface | Beryllium         | mg/kg | 6.82E-01 | 3.20E-07  | 1.28E-07 | 6.89E-11   |                   |
| 165  | 1  | Surface | Chromium          | mg/kg | 3.74E+01 | 1.76E-05  | 5.00E-05 | 3.77E-09   |                   |
| 165  | 1  | Surface | Mercury           | mg/kg | 3.78E-01 | 1.78E-07  | 5.06E-07 | 1.14E-06   |                   |
| 165  | 1  | Surface | Naphthalene       | mg/kg | 1.61E+00 | 7.57E-07  | 1.08E-05 | 5.46E-06   |                   |
| 165  | 1  | Surface | Nickel            | mg/kg | 3.47E+01 | 1.63E-05  | 3.71E-05 | 3.50E-09   |                   |
| 165  | 1  | Surface | PCB, Total        | mg/kg | 8.27E+00 | 3.88E-06  | 3.10E-05 | 1.42E-06   |                   |
| 165  | 1  | Surface | Silver            | mg/kg | 3.09E+01 | 1.45E-05  | 3.31E-05 | 3.12E-09   |                   |
| 165  | 1  | Surface | Total PAH         | mg/kg | 1.87E+00 | 8.77E-07  | 6.50E-06 | 1.40E-08   |                   |
| 165  | 1  | Surface | Uranium           | mg/kg | 1.08E+02 | 5.05E-05  | 1.44E-04 | 1.09E-08   |                   |
| 165  | 1  | Surface | Cesium-137        | pCi/g | 3.47E+00 | 2.92E+03  |          | 6.27E-01   | 6.39E+01          |
| 165  | 1  | Surface | Neptunium-237     | pCi/g | 4.26E-01 | 3.58E+02  |          | 7.69E-02   | 7.84E+00          |
| 165  | 1  | Surface | Plutonium-239/240 | pCi/g | 2.81E+00 | 2.36E+03  |          | 5.07E-01   | 5.16E+01          |
| 165  | 1  | Surface | Thorium-230       | pCi/g | 6.02E+00 | 5.05E+03  |          | 1.09E+00   | 1.11E+02          |
| 165  | 1  | Surface | Uranium-234       | pCi/g | 5.76E+01 | 4.83E+04  |          | 1.04E+01   | 1.06E+03          |
| 165  | 1  | Surface | Uranium-235       | pCi/g | 2.05E+00 | 1.72E+03  |          | 3.69E-01   | 3.77E+01          |
| 165  | 1  | Surface | Uranium-238       | pCi/g | 6.41E+01 | 5.38E+04  |          | 1.16E+01   | 1.18E+03          |
| 170  | 1  | Surface | Neptunium-237     | pCi/g | 1.15E-01 | 9.66E+01  |          | 2.08E-02   | 2.12E+00          |
| 170  | 1  | Surface | Uranium-238       | pCi/g | 1.53E+00 | 1.29E+03  |          | 2.76E-01   | 2.82E+01          |
| 158  | 1  | Surface | Antimony          | mg/kg | 5.23E-01 | 2.46E-07  | 7.00E-07 | 5.28E-11   |                   |
| 158  | 1  | Surface | Arsenic           | mg/kg | 1.01E+01 | 4.75E-06  | 8.13E-06 | 1.02E-09   |                   |
| 158  | 1  | Surface | Barium            | mg/kg | 2.19E+02 | 1.03E-04  | 2.93E-04 | 2.21E-08   |                   |
| 158  | 1  | Surface | Chromium          | mg/kg | 6.07E+01 | 2.85E-05  | 8.13E-05 | 6.13E-09   |                   |
| 158  | 1  | Surface | Cobalt            | mg/kg | 1.62E+01 | 7.62E-06  | 2.17E-05 | 1.64E-09   |                   |
| 158  | 1  | Surface | Manganese         | mg/kg | 9.91E+02 | 4.65E-04  | 1.06E-03 | 1.00E-07   |                   |
| 158  | 1  | Surface | Mercury           | mg/kg | 1.05E+01 | 4.91E-06  | 1.40E-05 | 3.17E-05   |                   |
| 158  | 1  | Surface | Nickel            | mg/kg | 7.28E+01 | 3.42E-05  | 7.80E-05 | 7.35E-09   |                   |
| 158  | 1  | Surface | Thallium          | mg/kg | 3.12E-01 | 1.47E-07  | 4.18E-07 | 3.15E-11   |                   |
| 158  | 1  | Surface | Total PAH         | mg/kg | 3.69E-01 | 1.73E-07  | 1.28E-06 | 2.77E-09   |                   |
| 158  | 1  | Surface | Uranium           | mg/kg | 2.03E+01 | 9.53E-06  | 2.72E-05 | 2.05E-09   |                   |
| 158  | 1  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 1.37E+02  |          | 2.94E-02   | 3.00E+00          |
| 158  | 1  | Surface | Uranium-238       | pCi/g | 3.79E+00 | 3.18E+03  |          | 6.84E-01   | 6.98E+01          |
| 169  | 1  | Surface | Aluminum          | mg/kg | 1.42E+04 | 6.67E-03  | 1.90E-02 | 1.43E-06   |                   |
| 169  | 1  | Surface | Antimony          | mg/kg | 1.30E+00 | 6.11E-07  | 1.74E-06 | 1.31E-10   |                   |
| 169  | 1  | Surface | Arsenic           | mg/kg | 2.03E+01 | 9.53E-06  | 1.63E-05 | 2.05E-09   |                   |
| 169  | 1  | Surface | Beryllium         | mg/kg | 8.00E-01 | 3.76E-07  | 1.50E-07 | 8.08E-11   |                   |
| 169  | 1  | Surface | Chromium          | mg/kg | 2.15E+02 | 1.01E-04  | 2.88E-04 | 2.17E-08   |                   |
| 169  | 1  | Surface | Copper            | mg/kg | 3.74E+02 | 1.76E-04  | 5.01E-04 | 3.78E-08   |                   |
| 169  | 1  | Surface | Iron              | mg/kg | 4.16E+04 | 1.95E-02  | 5.56E-02 | 4.20E-06   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 169  | 1  | Surface | Mercury     | mg/kg | 7.87E+00 | 3.70E-06  | 1.05E-05 | 2.38E-05   |                   |
| 169  | 1  | Surface | Nickel      | mg/kg | 5.49E+02 | 2.58E-04  | 5.88E-04 | 5.54E-08   |                   |
| 169  | 1  | Surface | PCB, Total  | mg/kg | 1.00E+01 | 4.70E-06  | 3.75E-05 | 1.71E-06   |                   |
| 169  | 1  | Surface | Thallium    | mg/kg | 4.60E-01 | 2.16E-07  | 6.16E-07 | 4.64E-11   |                   |
| 169  | 1  | Surface | Total PAH   | mg/kg | 4.59E+00 | 2.15E-06  | 1.60E-05 | 3.44E-08   |                   |
| 169  | 1  | Surface | Uranium     | mg/kg | 5.03E+01 | 2.36E-05  | 6.73E-05 | 5.08E-09   |                   |
| 169  | 1  | Surface | Uranium-234 | pCi/g | 6.55E+00 | 5.50E+03  |          | 1.18E+00   | 1.21E+02          |
| 169  | 1  | Surface | Uranium-235 | pCi/g | 4.60E-01 | 3.86E+02  |          | 8.31E-02   | 8.47E+00          |
| 169  | 1  | Surface | Uranium-238 | pCi/g | 8.12E+00 | 6.82E+03  |          | 1.47E+00   | 1.49E+02          |
| 19   | 1  | Surface | Beryllium   | mg/kg | 1.10E+00 | 5.17E-07  | 2.06E-07 | 1.11E-10   |                   |
| 19   | 1  | Surface | Cadmium     | mg/kg | 1.20E+00 | 5.64E-07  | 3.21E-08 | 1.21E-10   |                   |
| 19   | 1  | Surface | Thallium    | mg/kg | 9.80E-01 | 4.60E-07  | 1.31E-06 | 9.89E-11   |                   |
| 19   | 1  | Surface | Total PAH   | mg/kg | 5.23E+00 | 2.45E-06  | 1.82E-05 | 3.92E-08   |                   |
| 138  | 1  | Surface | Antimony    | mg/kg | 5.39E+00 | 2.53E-06  | 7.22E-06 | 5.45E-10   |                   |
| 138  | 1  | Surface | Arsenic     | mg/kg | 1.06E+01 | 4.99E-06  | 8.53E-06 | 1.07E-09   |                   |
| 138  | 1  | Surface | Cadmium     | mg/kg | 5.42E+00 | 2.55E-06  | 1.45E-07 | 5.47E-10   |                   |
| 138  | 1  | Surface | Chromium    | mg/kg | 5.39E+01 | 2.53E-05  | 7.21E-05 | 5.44E-09   |                   |
| 138  | 1  | Surface | Mercury     | mg/kg | 1.30E+01 | 6.10E-06  | 1.74E-05 | 3.93E-05   |                   |
| 138  | 1  | Surface | Nickel      | mg/kg | 7.04E+01 | 3.31E-05  | 7.54E-05 | 7.10E-09   |                   |
| 138  | 1  | Surface | PCB, Total  | mg/kg | 5.00E-01 | 2.35E-07  | 1.87E-06 | 8.57E-08   |                   |
| 138  | 1  | Surface | Silver      | mg/kg | 1.01E+01 | 4.74E-06  | 1.08E-05 | 1.02E-09   |                   |
| 138  | 1  | Surface | Total PAH   | mg/kg | 9.74E-02 | 4.58E-08  | 3.39E-07 | 7.30E-10   |                   |
| 138  | 2  | Surface | Nickel      | mg/kg | 7.99E+01 | 3.75E-05  | 8.55E-05 | 8.06E-09   |                   |
| 138  | 2  | Surface | PCB, Total  | mg/kg | 9.20E-02 | 4.32E-08  | 3.45E-07 | 1.58E-08   |                   |
| 138  | 2  | Surface | Silver      | mg/kg | 1.04E+01 | 4.90E-06  | 1.12E-05 | 1.05E-09   |                   |
| 138  | 2  | Surface | Total PAH   | mg/kg | 3.84E-02 | 1.80E-08  | 1.34E-07 | 2.88E-10   |                   |
| 180  | 1  | Surface | Antimony    | mg/kg | 5.80E-01 | 2.72E-07  | 7.76E-07 | 5.86E-11   |                   |
| 180  | 1  | Surface | Arsenic     | mg/kg | 7.48E+01 | 3.51E-05  | 6.01E-05 | 7.55E-09   |                   |
| 180  | 1  | Surface | Chromium    | mg/kg | 5.54E+01 | 2.60E-05  | 7.42E-05 | 5.60E-09   |                   |
| 180  | 1  | Surface | Mercury     | mg/kg | 8.28E+00 | 3.89E-06  | 1.11E-05 | 2.51E-05   |                   |
| 180  | 1  | Surface | Nickel      | mg/kg | 8.77E+01 | 4.12E-05  | 9.39E-05 | 8.85E-09   |                   |
| 180  | 2  | Surface | Antimony    | mg/kg | 4.58E-01 | 2.15E-07  | 6.13E-07 | 4.62E-11   |                   |
| 180  | 2  | Surface | Arsenic     | mg/kg | 1.27E+01 | 5.94E-06  | 1.02E-05 | 1.28E-09   |                   |
| 180  | 2  | Surface | Chromium    | mg/kg | 4.46E+01 | 2.10E-05  | 5.97E-05 | 4.51E-09   |                   |
| 180  | 2  | Surface | Nickel      | mg/kg | 8.42E+01 | 3.95E-05  | 9.01E-05 | 8.50E-09   |                   |
| 180  | 2  | Surface | Total PAH   | mg/kg | 9.19E-02 | 4.31E-08  | 3.20E-07 | 6.88E-10   |                   |
| 180  | 3  | Surface | Arsenic     | mg/kg | 1.34E+01 | 6.27E-06  | 1.07E-05 | 1.35E-09   |                   |
| 180  | 3  | Surface | Chromium    | mg/kg | 4.69E+01 | 2.20E-05  | 6.28E-05 | 4.74E-09   |                   |
| 180  | 3  | Surface | Nickel      | mg/kg | 6.77E+01 | 3.18E-05  | 7.25E-05 | 6.84E-09   |                   |
| 180  | 3  | Surface | Silver      | mg/kg | 1.14E+01 | 5.35E-06  | 1.22E-05 | 1.15E-09   |                   |
| 180  | 4  | Surface | Arsenic     | mg/kg | 1.15E+01 | 5.42E-06  | 9.26E-06 | 1.16E-09   |                   |
| 180  | 4  | Surface | Barium      | mg/kg | 2.13E+02 | 1.00E-04  | 2.85E-04 | 2.15E-08   |                   |
| 180  | 4  | Surface | Beryllium   | mg/kg | 1.60E+00 | 7.51E-07  | 3.00E-07 | 1.62E-10   |                   |
| 180  | 4  | Surface | Chromium    | mg/kg | 6.00E+01 | 2.82E-05  | 8.03E-05 | 6.06E-09   |                   |
| 180  | 4  | Surface | Iron        | mg/kg | 1.54E+04 | 7.22E-03  | 2.06E-02 | 1.55E-06   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC      | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-----------|-------|----------|-----------|----------|------------|-------------------|
| 180  | 4  | Surface | Manganese | mg/kg | 7.09E+02 | 3.33E-04  | 7.59E-04 | 7.16E-08   |                   |
| 180  | 4  | Surface | Nickel    | mg/kg | 6.46E+01 | 3.03E-05  | 6.92E-05 | 6.52E-09   |                   |
| 180  | 4  | Surface | Silver    | mg/kg | 9.68E+00 | 4.55E-06  | 1.04E-05 | 9.77E-10   |                   |
| 180  | 4  | Surface | Total PAH | mg/kg | 2.15E-02 | 1.01E-08  | 7.48E-08 | 1.61E-10   |                   |
| 180  | 4  | Surface | Vanadium  | mg/kg | 4.85E+01 | 2.28E-05  | 3.38E-05 | 4.90E-09   |                   |
| 181  | 1  | Surface | Chromium  | mg/kg | 2.29E+01 | 1.07E-05  | 3.06E-05 | 2.31E-09   |                   |
| 181  | 1  | Surface | Thallium  | mg/kg | 3.50E+00 | 1.64E-06  | 4.68E-06 | 3.53E-10   |                   |
| 181  | 1  | Surface | Total PAH | mg/kg | 3.43E-02 | 1.61E-08  | 1.19E-07 | 2.57E-10   |                   |
| 195  | 1  | Surface | Chromium  | mg/kg | 6.33E+01 | 2.97E-05  | 8.47E-05 | 6.39E-09   |                   |
| 195  | 1  | Surface | Nickel    | mg/kg | 7.02E+01 | 3.30E-05  | 7.52E-05 | 7.09E-09   |                   |
| 195  | 1  | Surface | Silver    | mg/kg | 9.37E+00 | 4.40E-06  | 1.00E-05 | 9.46E-10   |                   |
| 195  | 2  | Surface | Chromium  | mg/kg | 4.52E+01 | 2.12E-05  | 6.05E-05 | 4.56E-09   |                   |
| 195  | 2  | Surface | Silver    | mg/kg | 9.48E+00 | 4.45E-06  | 1.02E-05 | 9.57E-10   |                   |
| 195  | 2  | Surface | Total PAH | mg/kg | 2.68E-02 | 1.26E-08  | 9.33E-08 | 2.01E-10   |                   |
| 195  | 3  | Surface | Chromium  | mg/kg | 5.03E+01 | 2.36E-05  | 6.73E-05 | 5.08E-09   |                   |
| 195  | 3  | Surface | Nickel    | mg/kg | 5.22E+01 | 2.45E-05  | 5.58E-05 | 5.27E-09   |                   |
| 195  | 3  | Surface | Total PAH | mg/kg | 4.06E-02 | 1.91E-08  | 1.41E-07 | 3.04E-10   |                   |
| 195  | 4  | Surface | Chromium  | mg/kg | 5.29E+01 | 2.48E-05  | 7.08E-05 | 5.34E-09   |                   |
| 195  | 4  | Surface | Nickel    | mg/kg | 6.23E+01 | 2.93E-05  | 6.67E-05 | 6.29E-09   |                   |
| 195  | 5  | Surface | Chromium  | mg/kg | 5.74E+01 | 2.70E-05  | 7.68E-05 | 5.80E-09   |                   |
| 195  | 5  | Surface | Nickel    | mg/kg | 8.11E+01 | 3.81E-05  | 8.68E-05 | 8.19E-09   |                   |
| 195  | 5  | Surface | Total PAH | mg/kg | 2.40E-02 | 1.13E-08  | 8.35E-08 | 1.80E-10   |                   |
| 195  | 6  | Surface | Chromium  | mg/kg | 4.45E+01 | 2.09E-05  | 5.96E-05 | 4.50E-09   |                   |
| 195  | 6  | Surface | Nickel    | mg/kg | 8.71E+01 | 4.09E-05  | 9.33E-05 | 8.79E-09   |                   |
| 195  | 6  | Surface | Total PAH | mg/kg | 2.48E-01 | 1.16E-07  | 8.62E-07 | 1.86E-09   |                   |
| 195  | 7  | Surface | Chromium  | mg/kg | 4.93E+01 | 2.31E-05  | 6.59E-05 | 4.97E-09   |                   |
| 195  | 7  | Surface | Silver    | mg/kg | 8.06E+00 | 3.79E-06  | 8.63E-06 | 8.14E-10   |                   |
| 195  | 8  | Surface | Arsenic   | mg/kg | 1.16E+01 | 5.43E-06  | 9.28E-06 | 1.17E-09   |                   |
| 195  | 8  | Surface | Beryllium | mg/kg | 7.40E-01 | 3.48E-07  | 1.39E-07 | 7.47E-11   |                   |
| 195  | 8  | Surface | Chromium  | mg/kg | 6.79E+01 | 3.19E-05  | 9.09E-05 | 6.86E-09   |                   |
| 195  | 8  | Surface | Cobalt    | mg/kg | 1.82E+01 | 8.55E-06  | 2.44E-05 | 1.84E-09   |                   |
| 195  | 8  | Surface | Nickel    | mg/kg | 7.01E+01 | 3.29E-05  | 7.51E-05 | 7.08E-09   |                   |
| 195  | 8  | Surface | Total PAH | mg/kg | 2.16E-01 | 1.01E-07  | 7.50E-07 | 1.62E-09   |                   |
| 195  | 8  | Surface | Vanadium  | mg/kg | 4.04E+01 | 1.90E-05  | 2.81E-05 | 4.08E-09   |                   |
| 195  | 9  | Surface | Chromium  | mg/kg | 6.08E+01 | 2.86E-05  | 8.14E-05 | 6.14E-09   |                   |
| 195  | 9  | Surface | Nickel    | mg/kg | 7.93E+01 | 3.72E-05  | 8.49E-05 | 8.00E-09   |                   |
| 195  | 10 | Surface | Chromium  | mg/kg | 4.51E+01 | 2.12E-05  | 6.03E-05 | 4.55E-09   |                   |
| 195  | 10 | Surface | Nickel    | mg/kg | 7.40E+01 | 3.48E-05  | 7.93E-05 | 7.47E-09   |                   |
| 195  | 10 | Surface | Silver    | mg/kg | 1.31E+01 | 6.16E-06  | 1.40E-05 | 1.32E-09   |                   |
| 195  | 11 | Surface | Aluminum  | mg/kg | 2.81E+04 | 1.32E-02  | 3.76E-02 | 2.84E-06   |                   |
| 195  | 11 | Surface | Arsenic   | mg/kg | 1.35E+01 | 6.32E-06  | 1.08E-05 | 1.36E-09   |                   |
| 195  | 11 | Surface | Barium    | mg/kg | 4.53E+02 | 2.13E-04  | 6.06E-04 | 4.57E-08   |                   |
| 195  | 11 | Surface | Chromium  | mg/kg | 5.05E+01 | 2.37E-05  | 6.76E-05 | 5.10E-09   |                   |
| 195  | 11 | Surface | Cobalt    | mg/kg | 2.77E+01 | 1.30E-05  | 3.71E-05 | 2.80E-09   |                   |
| 195  | 11 | Surface | Iron      | mg/kg | 1.97E+04 | 9.25E-03  | 2.64E-02 | 1.99E-06   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 195  | 11 | Surface | Nickel        | mg/kg | 6.77E+01 | 3.18E-05  | 7.25E-05 | 6.83E-09   |                   |
| 195  | 11 | Surface | Thallium      | mg/kg | 6.60E-01 | 3.10E-07  | 8.83E-07 | 6.66E-11   |                   |
| 195  | 11 | Surface | Vanadium      | mg/kg | 7.97E+01 | 3.74E-05  | 5.55E-05 | 8.05E-09   |                   |
| 195  | 12 | Surface | Beryllium     | mg/kg | 7.50E-01 | 3.52E-07  | 1.41E-07 | 7.57E-11   |                   |
| 195  | 12 | Surface | Chromium      | mg/kg | 7.04E+01 | 3.31E-05  | 9.42E-05 | 7.11E-09   |                   |
| 195  | 12 | Surface | Nickel        | mg/kg | 6.78E+01 | 3.18E-05  | 7.25E-05 | 6.84E-09   |                   |
| 195  | 13 | Surface | Chromium      | mg/kg | 6.55E+01 | 3.08E-05  | 8.77E-05 | 6.61E-09   |                   |
| 195  | 13 | Surface | Nickel        | mg/kg | 6.91E+01 | 3.24E-05  | 7.40E-05 | 6.97E-09   |                   |
| 195  | 14 | Surface | Chromium      | mg/kg | 5.94E+01 | 2.79E-05  | 7.96E-05 | 6.00E-09   |                   |
| 195  | 14 | Surface | Nickel        | mg/kg | 7.04E+01 | 3.30E-05  | 7.53E-05 | 7.10E-09   |                   |
| 195  | 15 | Surface | Chromium      | mg/kg | 4.82E+01 | 2.26E-05  | 6.45E-05 | 4.86E-09   |                   |
| 195  | 16 | Surface | Chromium      | mg/kg | 4.45E+01 | 2.09E-05  | 5.95E-05 | 4.49E-09   |                   |
| 195  | 16 | Surface | Nickel        | mg/kg | 8.16E+01 | 3.83E-05  | 8.73E-05 | 8.24E-09   |                   |
| 195  | 17 | Surface | Chromium      | mg/kg | 8.22E+01 | 3.86E-05  | 1.10E-04 | 8.30E-09   |                   |
| 195  | 17 | Surface | Mercury       | mg/kg | 4.17E-01 | 1.96E-07  | 5.58E-07 | 1.26E-06   |                   |
| 195  | 17 | Surface | Nickel        | mg/kg | 5.93E+01 | 2.79E-05  | 6.35E-05 | 5.99E-09   |                   |
| 195  | 17 | Surface | PCB, Total    | mg/kg | 7.40E-01 | 3.48E-07  | 2.77E-06 | 1.27E-07   |                   |
| 195  | 17 | Surface | Silver        | mg/kg | 1.01E+01 | 4.76E-06  | 1.09E-05 | 1.02E-09   |                   |
| 195  | 17 | Surface | Thallium      | mg/kg | 5.40E-01 | 2.54E-07  | 7.23E-07 | 5.45E-11   |                   |
| 195  | 17 | Surface | Total PAH     | mg/kg | 3.16E-01 | 1.48E-07  | 1.10E-06 | 2.37E-09   |                   |
| 195  | 17 | Surface | Uranium-235   | pCi/g | 1.32E-01 | 1.11E+02  |          | 2.38E-02   | 2.43E+00          |
| 195  | 17 | Surface | Uranium-238   | pCi/g | 2.48E+00 | 2.08E+03  |          | 4.48E-01   | 4.57E+01          |
| 486  | 1  | Surface | Cesium-137    | pCi/g | 1.71E+00 | 1.44E+03  |          | 3.09E-01   | 3.15E+01          |
| 487  | 1  | Surface | Cesium-137    | pCi/g | 1.38E+00 | 1.16E+03  |          | 2.49E-01   | 2.54E+01          |
| 492  | 1  | Surface | Arsenic       | mg/kg | 1.47E+01 | 6.90E-06  | 1.18E-05 | 1.48E-09   |                   |
| 492  | 1  | Surface | Beryllium     | mg/kg | 1.04E+01 | 4.88E-06  | 1.95E-06 | 1.05E-09   |                   |
| 492  | 1  | Surface | Cadmium       | mg/kg | 3.14E+00 | 1.47E-06  | 8.41E-08 | 3.17E-10   |                   |
| 492  | 1  | Surface | Chromium      | mg/kg | 1.04E+03 | 4.88E-04  | 1.39E-03 | 1.05E-07   |                   |
| 492  | 1  | Surface | PCB, Total    | mg/kg | 4.41E+01 | 2.07E-05  | 1.65E-04 | 7.56E-06   |                   |
| 492  | 1  | Surface | Uranium       | mg/kg | 1.77E+03 | 8.31E-04  | 2.37E-03 | 1.79E-07   |                   |
| 492  | 1  | Surface | Vanadium      | mg/kg | 4.32E+01 | 2.03E-05  | 3.01E-05 | 4.36E-09   |                   |
| 492  | 1  | Surface | Cobalt-60     | pCi/g | 9.63E-03 | 8.09E+00  |          | 1.74E-03   | 1.77E-01          |
| 492  | 1  | Surface | Neptunium-237 | pCi/g | 2.09E-01 | 1.76E+02  |          | 3.77E-02   | 3.85E+00          |
| 492  | 1  | Surface | Uranium-234   | pCi/g | 5.39E+01 | 4.53E+04  |          | 9.73E+00   | 9.92E+02          |
| 492  | 1  | Surface | Uranium-235   | pCi/g | 5.72E+00 | 4.80E+03  |          | 1.03E+00   | 1.05E+02          |
| 492  | 1  | Surface | Uranium-238   | pCi/g | 3.83E+02 | 3.22E+05  |          | 6.92E+01   | 7.05E+03          |
| 493  | 1  | Surface | Aluminum      | mg/kg | 1.44E+04 | 6.76E-03  | 1.93E-02 | 1.45E-06   |                   |
| 493  | 1  | Surface | Barium        | mg/kg | 4.04E+02 | 1.90E-04  | 5.41E-04 | 4.08E-08   |                   |
| 493  | 1  | Surface | Beryllium     | mg/kg | 9.91E-01 | 4.65E-07  | 1.86E-07 | 1.00E-10   |                   |
| 493  | 1  | Surface | Chromium      | mg/kg | 6.61E+01 | 3.10E-05  | 8.85E-05 | 6.67E-09   |                   |
| 493  | 1  | Surface | Cobalt        | mg/kg | 3.79E+01 | 1.78E-05  | 5.07E-05 | 3.83E-09   |                   |
| 493  | 1  | Surface | Manganese     | mg/kg | 3.55E+03 | 1.67E-03  | 3.80E-03 | 3.58E-07   |                   |
| 493  | 1  | Surface | Mercury       | mg/kg | 2.60E-01 | 1.22E-07  | 3.48E-07 | 7.88E-07   |                   |
| 493  | 1  | Surface | Nickel        | mg/kg | 2.13E+02 | 1.00E-04  | 2.28E-04 | 2.15E-08   |                   |
| 493  | 1  | Surface | PCB, Total    | mg/kg | 2.60E-01 | 1.22E-07  | 9.74E-07 | 4.46E-08   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 493  | 1  | Surface | Total PAH     | mg/kg | 5.00E-01 | 2.35E-07  | 1.74E-06 | 3.75E-09   |                   |
| 493  | 1  | Surface | Vanadium      | mg/kg | 4.05E+01 | 1.90E-05  | 2.82E-05 | 4.09E-09   |                   |
| 493  | 1  | Surface | Cobalt-60     | pCi/g | 1.36E-02 | 1.14E+01  |          | 2.46E-03   | 2.50E-01          |
| 493  | 1  | Surface | Neptunium-237 | pCi/g | 1.22E-01 | 1.02E+02  |          | 2.20E-02   | 2.25E+00          |
| 493  | 1  | Surface | Uranium-235   | pCi/g | 1.65E-01 | 1.39E+02  |          | 2.98E-02   | 3.04E+00          |
| 493  | 1  | Surface | Uranium-238   | pCi/g | 5.50E+00 | 4.62E+03  |          | 9.93E-01   | 1.01E+02          |
| 517  | 1  | Surface | Beryllium     | mg/kg | 7.39E-01 | 3.47E-07  | 1.38E-07 | 7.46E-11   |                   |
| 517  | 1  | Surface | Chromium      | mg/kg | 4.91E+01 | 2.31E-05  | 6.57E-05 | 4.96E-09   |                   |
| 517  | 1  | Surface | Nickel        | mg/kg | 1.72E+02 | 8.08E-05  | 1.84E-04 | 1.74E-08   |                   |
| 517  | 1  | Surface | PCB, Total    | mg/kg | 5.00E-01 | 2.35E-07  | 1.87E-06 | 8.57E-08   |                   |
| 517  | 1  | Surface | Cobalt-60     | pCi/g | 6.39E-03 | 5.37E+00  |          | 1.15E-03   | 1.18E-01          |
| 517  | 1  | Surface | Neptunium-237 | pCi/g | 1.07E+00 | 8.99E+02  |          | 1.93E-01   | 1.97E+01          |
| 517  | 1  | Surface | Uranium-235   | pCi/g | 1.60E-01 | 1.34E+02  |          | 2.89E-02   | 2.95E+00          |
| 517  | 1  | Surface | Uranium-238   | pCi/g | 3.89E+00 | 3.27E+03  |          | 7.02E-01   | 7.16E+01          |
| 541  | 1  | Surface | Aluminum      | mg/kg | 1.43E+04 | 6.71E-03  | 1.91E-02 | 1.44E-06   |                   |
| 541  | 1  | Surface | Barium        | mg/kg | 1.28E+02 | 6.01E-05  | 1.71E-04 | 1.29E-08   |                   |
| 541  | 1  | Surface | Beryllium     | mg/kg | 6.98E-01 | 3.28E-07  | 1.31E-07 | 7.05E-11   |                   |
| 541  | 1  | Surface | Cadmium       | mg/kg | 1.68E+00 | 7.90E-07  | 4.50E-08 | 1.70E-10   |                   |
| 541  | 1  | Surface | Chromium      | mg/kg | 8.24E+02 | 3.87E-04  | 1.10E-03 | 8.32E-08   |                   |
| 541  | 1  | Surface | Iron          | mg/kg | 1.60E+04 | 7.50E-03  | 2.14E-02 | 1.61E-06   |                   |
| 541  | 1  | Surface | Mercury       | mg/kg | 9.81E-02 | 4.61E-08  | 1.31E-07 | 2.97E-07   |                   |
| 541  | 1  | Surface | Naphthalene   | mg/kg | 6.55E-01 | 3.08E-07  | 4.38E-06 | 2.22E-06   |                   |
| 541  | 1  | Surface | Nickel        | mg/kg | 1.52E+01 | 7.16E-06  | 1.63E-05 | 1.54E-09   |                   |
| 541  | 1  | Surface | PCB, Total    | mg/kg | 6.06E+01 | 2.85E-05  | 2.27E-04 | 1.04E-05   |                   |
| 541  | 1  | Surface | Total PAH     | mg/kg | 2.33E+00 | 1.09E-06  | 8.11E-06 | 1.75E-08   |                   |
| 541  | 1  | Surface | Uranium       | mg/kg | 6.38E+03 | 3.00E-03  | 8.54E-03 | 6.44E-07   |                   |
| 541  | 1  | Surface | Vanadium      | mg/kg | 3.04E+01 | 1.43E-05  | 2.12E-05 | 3.07E-09   |                   |
| 541  | 1  | Surface | Americium-241 | pCi/g | 7.53E+00 | 6.33E+03  |          | 1.36E+00   | 1.39E+02          |
| 541  | 1  | Surface | Cesium-137    | pCi/g | 9.58E-01 | 8.05E+02  |          | 1.73E-01   | 1.76E+01          |
| 541  | 1  | Surface | Cobalt-60     | pCi/g | 1.01E-02 | 8.48E+00  |          | 1.82E-03   | 1.86E-01          |
| 541  | 1  | Surface | Neptunium-237 | pCi/g | 5.52E-02 | 4.64E+01  |          | 9.97E-03   | 1.02E+00          |
| 541  | 1  | Surface | Uranium-234   | pCi/g | 1.43E+02 | 1.20E+05  |          | 2.58E+01   | 2.63E+03          |
| 541  | 1  | Surface | Uranium-235   | pCi/g | 1.76E+01 | 1.48E+04  |          | 3.17E+00   | 3.23E+02          |
| 541  | 1  | Surface | Uranium-238   | pCi/g | 1.00E+03 | 8.41E+05  |          | 1.81E+02   | 1.84E+04          |
| 561  | 1  | Surface | Antimony      | mg/kg | 9.36E-01 | 4.40E-07  | 1.25E-06 | 9.45E-11   |                   |
| 561  | 1  | Surface | Arsenic       | mg/kg | 1.66E+01 | 7.77E-06  | 1.33E-05 | 1.67E-09   |                   |
| 561  | 1  | Surface | Barium        | mg/kg | 1.40E+02 | 6.58E-05  | 1.88E-04 | 1.42E-08   |                   |
| 561  | 1  | Surface | Beryllium     | mg/kg | 6.85E-01 | 3.22E-07  | 1.28E-07 | 6.92E-11   |                   |
| 561  | 1  | Surface | Chromium      | mg/kg | 8.58E+01 | 4.03E-05  | 1.15E-04 | 8.66E-09   |                   |
| 561  | 1  | Surface | Cobalt        | mg/kg | 1.07E+01 | 5.02E-06  | 1.43E-05 | 1.08E-09   |                   |
| 561  | 1  | Surface | Iron          | mg/kg | 2.05E+04 | 9.61E-03  | 2.74E-02 | 2.07E-06   |                   |
| 561  | 1  | Surface | Manganese     | mg/kg | 1.61E+03 | 7.56E-04  | 1.72E-03 | 1.62E-07   |                   |
| 561  | 1  | Surface | PCB, Total    | mg/kg | 1.04E+00 | 4.89E-07  | 3.91E-06 | 1.79E-07   |                   |
| 561  | 1  | Surface | Thallium      | mg/kg | 3.33E-01 | 1.56E-07  | 4.46E-07 | 3.36E-11   |                   |
| 561  | 1  | Surface | Total PAH     | mg/kg | 3.94E-01 | 1.85E-07  | 1.37E-06 | 2.95E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 561  | 1  | Surface | Uranium           | mg/kg | 2.65E+02 | 1.24E-04  | 3.54E-04 | 2.67E-08   |                   |
| 561  | 1  | Surface | Vanadium          | mg/kg | 3.76E+01 | 1.77E-05  | 2.62E-05 | 3.80E-09   |                   |
| 561  | 1  | Surface | Cobalt-60         | pCi/g | 7.06E-02 | 5.93E+01  |          | 1.27E-02   | 1.30E+00          |
| 561  | 1  | Surface | Neptunium-237     | pCi/g | 2.71E-02 | 2.28E+01  |          | 4.89E-03   | 4.99E-01          |
| 561  | 1  | Surface | Uranium-234       | pCi/g | 7.84E+00 | 6.58E+03  |          | 1.42E+00   | 1.44E+02          |
| 561  | 1  | Surface | Uranium-235       | pCi/g | 1.37E+00 | 1.15E+03  |          | 2.47E-01   | 2.51E+01          |
| 561  | 1  | Surface | Uranium-238       | pCi/g | 1.07E+02 | 8.95E+04  |          | 1.92E+01   | 1.96E+03          |
| 561  | 2  | Surface | Antimony          | mg/kg | 5.33E+00 | 2.51E-06  | 7.14E-06 | 5.39E-10   |                   |
| 561  | 2  | Surface | Arsenic           | mg/kg | 1.30E+01 | 6.11E-06  | 1.04E-05 | 1.31E-09   |                   |
| 561  | 2  | Surface | Beryllium         | mg/kg | 6.34E-01 | 2.98E-07  | 1.19E-07 | 6.40E-11   |                   |
| 561  | 2  | Surface | Cadmium           | mg/kg | 4.13E-01 | 1.94E-07  | 1.11E-08 | 4.17E-11   |                   |
| 561  | 2  | Surface | Chromium          | mg/kg | 2.88E+02 | 1.35E-04  | 3.86E-04 | 2.91E-08   |                   |
| 561  | 2  | Surface | Cobalt            | mg/kg | 1.14E+01 | 5.35E-06  | 1.53E-05 | 1.15E-09   |                   |
| 561  | 2  | Surface | Manganese         | mg/kg | 1.12E+03 | 5.24E-04  | 1.19E-03 | 1.13E-07   |                   |
| 561  | 2  | Surface | PCB, Total        | mg/kg | 1.64E+01 | 7.71E-06  | 6.15E-05 | 2.82E-06   |                   |
| 561  | 2  | Surface | Thallium          | mg/kg | 4.09E-01 | 1.92E-07  | 5.47E-07 | 4.13E-11   |                   |
| 561  | 2  | Surface | Total PAH         | mg/kg | 2.43E+00 | 1.14E-06  | 8.46E-06 | 1.82E-08   |                   |
| 561  | 2  | Surface | Uranium           | mg/kg | 1.38E+03 | 6.50E-04  | 1.85E-03 | 1.40E-07   |                   |
| 561  | 2  | Surface | Vanadium          | mg/kg | 3.46E+01 | 1.62E-05  | 2.40E-05 | 3.49E-09   |                   |
| 561  | 2  | Surface | Cesium-137        | pCi/g | 4.09E-01 | 3.44E+02  |          | 7.39E-02   | 7.53E+00          |
| 561  | 2  | Surface | Cobalt-60         | pCi/g | 2.76E-02 | 2.32E+01  |          | 4.98E-03   | 5.08E-01          |
| 561  | 2  | Surface | Neptunium-237     | pCi/g | 4.71E-02 | 3.96E+01  |          | 8.50E-03   | 8.67E-01          |
| 561  | 2  | Surface | Uranium-234       | pCi/g | 4.06E+01 | 3.41E+04  |          | 7.34E+00   | 7.48E+02          |
| 561  | 2  | Surface | Uranium-235       | pCi/g | 7.09E+00 | 5.96E+03  |          | 1.28E+00   | 1.31E+02          |
| 561  | 2  | Surface | Uranium-238       | pCi/g | 4.00E+02 | 3.36E+05  |          | 7.23E+01   | 7.37E+03          |
| 562  | 1  | Surface | Uranium           | mg/kg | 8.73E+01 | 4.10E-05  | 1.17E-04 | 8.82E-09   |                   |
| 562  | 1  | Surface | Uranium-238       | pCi/g | 2.73E+00 | 2.29E+03  |          | 4.93E-01   | 5.03E+01          |
| 562  | 2  | Surface | PCB, Total        | mg/kg | 1.58E+00 | 7.42E-07  | 5.92E-06 | 2.71E-07   |                   |
| 562  | 2  | Surface | Protactinium-234m | pCi/g | 2.76E+02 | 2.32E+05  |          | 4.98E+01   | 5.08E+03          |
| 562  | 2  | Surface | Uranium-234       | pCi/g | 5.34E+01 | 4.49E+04  |          | 9.64E+00   | 9.83E+02          |
| 562  | 2  | Surface | Uranium-235       | pCi/g | 8.96E+00 | 7.53E+03  |          | 1.62E+00   | 1.65E+02          |
| 562  | 2  | Surface | Uranium-238       | pCi/g | 5.81E+02 | 4.88E+05  |          | 1.05E+02   | 1.07E+04          |
| 562  | 3  | Surface | Chromium          | mg/kg | 3.82E+01 | 1.79E-05  | 5.11E-05 | 3.85E-09   |                   |
| 562  | 3  | Surface | PCB, Total        | mg/kg | 2.40E-01 | 1.13E-07  | 9.00E-07 | 4.11E-08   |                   |
| 562  | 3  | Surface | Total PAH         | mg/kg | 2.20E-01 | 1.03E-07  | 7.66E-07 | 1.65E-09   |                   |
| 562  | 3  | Surface | Uranium           | mg/kg | 5.89E+01 | 2.77E-05  | 7.88E-05 | 5.95E-09   |                   |
| 562  | 3  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 1.37E+02  |          | 2.94E-02   | 3.00E+00          |
| 562  | 3  | Surface | Uranium-238       | pCi/g | 1.09E+01 | 9.16E+03  |          | 1.97E+00   | 2.01E+02          |
| 562  | 4  | Surface | Chromium          | mg/kg | 4.67E+01 | 2.19E-05  | 6.25E-05 | 4.71E-09   |                   |
| 562  | 4  | Surface | Uranium           | mg/kg | 2.10E+01 | 9.86E-06  | 2.81E-05 | 2.12E-09   |                   |
| 562  | 4  | Surface | Uranium-238       | pCi/g | 2.24E+00 | 1.88E+03  |          | 4.04E-01   | 4.12E+01          |
| 562  | 5  | Surface | Chromium          | mg/kg | 1.53E+02 | 7.19E-05  | 2.05E-04 | 1.55E-08   |                   |
| 562  | 5  | Surface | PCB, Total        | mg/kg | 9.50E-01 | 4.46E-07  | 3.56E-06 | 1.63E-07   |                   |
| 562  | 5  | Surface | Total PAH         | mg/kg | 7.05E-02 | 3.31E-08  | 2.45E-07 | 5.28E-10   |                   |
| 562  | 5  | Surface | Uranium           | mg/kg | 2.08E+02 | 9.77E-05  | 2.78E-04 | 2.10E-08   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 562  | 5  | Surface | Uranium-234       | pCi/g | 8.57E+00 | 7.20E+03  |          | 1.55E+00   | 1.58E+02          |
| 562  | 5  | Surface | Uranium-235       | pCi/g | 9.50E-01 | 7.98E+02  |          | 1.72E-01   | 1.75E+01          |
| 562  | 5  | Surface | Uranium-238       | pCi/g | 6.24E+01 | 5.24E+04  |          | 1.13E+01   | 1.15E+03          |
| 562  | 6  | Surface | Protactinium-234m | pCi/g | 3.66E+02 | 3.07E+05  |          | 6.61E+01   | 6.74E+03          |
| 562  | 6  | Surface | Uranium-234       | pCi/g | 4.01E+01 | 3.37E+04  |          | 7.24E+00   | 7.38E+02          |
| 562  | 6  | Surface | Uranium-235       | pCi/g | 6.81E+00 | 5.72E+03  |          | 1.23E+00   | 1.25E+02          |
| 562  | 6  | Surface | Uranium-238       | pCi/g | 3.62E+02 | 3.04E+05  |          | 6.53E+01   | 6.66E+03          |
| 563  | 1  | Surface | Cadmium           | mg/kg | 8.96E-01 | 4.21E-07  | 2.40E-08 | 9.05E-11   |                   |
| 563  | 1  | Surface | Chromium          | mg/kg | 2.85E+02 | 1.34E-04  | 3.81E-04 | 2.88E-08   |                   |
| 563  | 1  | Surface | PCB, Total        | mg/kg | 7.40E-01 | 3.48E-07  | 2.77E-06 | 1.27E-07   |                   |
| 563  | 1  | Surface | Uranium           | mg/kg | 1.51E+01 | 7.09E-06  | 2.02E-05 | 1.52E-09   |                   |
| 563  | 1  | Surface | Uranium-238       | pCi/g | 2.76E+00 | 2.32E+03  |          | 4.98E-01   | 5.08E+01          |
| 563  | 2  | Surface | Cesium-137        | pCi/g | 6.47E-01 | 5.43E+02  |          | 1.17E-01   | 1.19E+01          |
| 563  | 2  | Surface | Uranium-238       | pCi/g | 1.49E+00 | 1.25E+03  |          | 2.69E-01   | 2.74E+01          |
| 564  | 1  | Surface | Arsenic           | mg/kg | 4.30E+01 | 2.02E-05  | 3.45E-05 | 4.34E-09   |                   |
| 564  | 1  | Surface | Beryllium         | mg/kg | 2.12E+00 | 9.96E-07  | 3.97E-07 | 2.14E-10   |                   |
| 564  | 1  | Surface | Cadmium           | mg/kg | 1.96E+00 | 9.21E-07  | 5.25E-08 | 1.98E-10   |                   |
| 564  | 1  | Surface | Chromium          | mg/kg | 7.49E+01 | 3.52E-05  | 1.00E-04 | 7.56E-09   |                   |
| 564  | 1  | Surface | Iron              | mg/kg | 3.66E+04 | 1.72E-02  | 4.90E-02 | 3.70E-06   |                   |
| 564  | 1  | Surface | Mercury           | mg/kg | 2.30E-01 | 1.08E-07  | 3.08E-07 | 6.97E-07   |                   |
| 564  | 1  | Surface | Nickel            | mg/kg | 2.24E+01 | 1.05E-05  | 2.40E-05 | 2.26E-09   |                   |
| 564  | 1  | Surface | PCB, Total        | mg/kg | 1.93E+00 | 9.06E-07  | 7.23E-06 | 3.31E-07   |                   |
| 564  | 1  | Surface | Thallium          | mg/kg | 2.36E+00 | 1.11E-06  | 3.16E-06 | 2.38E-10   |                   |
| 564  | 1  | Surface | Uranium           | mg/kg | 5.83E+01 | 2.74E-05  | 7.80E-05 | 5.89E-09   |                   |
| 564  | 1  | Surface | Vanadium          | mg/kg | 8.06E+01 | 3.79E-05  | 5.61E-05 | 8.14E-09   |                   |
| 564  | 1  | Surface | Cesium-137        | pCi/g | 6.20E-01 | 5.21E+02  |          | 1.12E-01   | 1.14E+01          |
| 564  | 1  | Surface | Thorium-230       | pCi/g | 5.01E+00 | 4.21E+03  |          | 9.05E-01   | 9.22E+01          |
| 564  | 1  | Surface | Uranium-234       | pCi/g | 6.93E+00 | 5.82E+03  |          | 1.25E+00   | 1.28E+02          |
| 564  | 1  | Surface | Uranium-235       | pCi/g | 3.87E-01 | 3.25E+02  |          | 6.99E-02   | 7.13E+00          |
| 564  | 1  | Surface | Uranium-238       | pCi/g | 8.33E+00 | 7.00E+03  |          | 1.50E+00   | 1.53E+02          |
| 567  | 3  | Surface | Chromium          | mg/kg | 3.79E+01 | 1.78E-05  | 5.07E-05 | 3.83E-09   |                   |
| 567  | 4  | Surface | Aluminum          | mg/kg | 1.25E+04 | 5.88E-03  | 1.68E-02 | 1.26E-06   |                   |
| 567  | 4  | Surface | Chromium          | mg/kg | 1.63E+01 | 7.66E-06  | 2.18E-05 | 1.65E-09   |                   |
| 567  | 4  | Surface | Uranium-238       | pCi/g | 1.05E+00 | 8.81E+02  |          | 1.89E-01   | 1.93E+01          |
| 14   | 1  | Surface | Arsenic           | mg/kg | 1.10E+01 | 5.16E-06  | 8.82E-06 | 1.11E-09   |                   |
| 14   | 1  | Surface | Chromium          | mg/kg | 6.36E+01 | 2.99E-05  | 8.51E-05 | 6.42E-09   |                   |
| 14   | 1  | Surface | Iron              | mg/kg | 1.89E+04 | 8.86E-03  | 2.52E-02 | 1.90E-06   |                   |
| 14   | 1  | Surface | Nickel            | mg/kg | 1.40E+02 | 6.56E-05  | 1.50E-04 | 1.41E-08   |                   |
| 14   | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 2.35E-07  | 1.87E-06 | 8.57E-08   |                   |
| 14   | 1  | Surface | Silver            | mg/kg | 1.67E+01 | 7.84E-06  | 1.79E-05 | 1.69E-09   |                   |
| 14   | 1  | Surface | Uranium           | mg/kg | 7.21E+01 | 3.39E-05  | 9.66E-05 | 7.28E-09   |                   |
| 14   | 1  | Surface | Americium-241     | pCi/g | 1.27E+00 | 1.06E+03  |          | 2.29E-01   | 2.33E+01          |
| 14   | 1  | Surface | Neptunium-237     | pCi/g | 2.14E-01 | 1.80E+02  |          | 3.86E-02   | 3.94E+00          |
| 14   | 1  | Surface | Technetium-99     | pCi/g | 4.06E+02 | 3.41E+05  |          | 7.33E+01   | 7.47E+03          |
| 14   | 1  | Surface | Uranium-238       | pCi/g | 1.69E+00 | 1.42E+03  |          | 3.05E-01   | 3.11E+01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 2  | Surface | Antimony      | mg/kg | 3.70E+00 | 1.74E-06  | 4.95E-06 | 3.74E-10   |                   |
| 14   | 2  | Surface | Arsenic       | mg/kg | 1.45E+01 | 6.82E-06  | 1.17E-05 | 1.47E-09   |                   |
| 14   | 2  | Surface | Beryllium     | mg/kg | 7.10E-01 | 3.33E-07  | 1.33E-07 | 7.17E-11   |                   |
| 14   | 2  | Surface | Chromium      | mg/kg | 6.65E+01 | 3.13E-05  | 8.91E-05 | 6.72E-09   |                   |
| 14   | 2  | Surface | Copper        | mg/kg | 1.76E+02 | 8.28E-05  | 2.36E-04 | 1.78E-08   |                   |
| 14   | 2  | Surface | Iron          | mg/kg | 3.72E+04 | 1.75E-02  | 4.98E-02 | 3.75E-06   |                   |
| 14   | 2  | Surface | Manganese     | mg/kg | 1.44E+03 | 6.77E-04  | 1.54E-03 | 1.46E-07   |                   |
| 14   | 2  | Surface | Mercury       | mg/kg | 2.67E-01 | 1.25E-07  | 3.57E-07 | 8.09E-07   |                   |
| 14   | 2  | Surface | Nickel        | mg/kg | 6.78E+02 | 3.18E-04  | 7.26E-04 | 6.84E-08   |                   |
| 14   | 2  | Surface | PCB, Total    | mg/kg | 3.90E-01 | 1.83E-07  | 1.46E-06 | 6.69E-08   |                   |
| 14   | 2  | Surface | Total PAH     | mg/kg | 3.38E-01 | 1.59E-07  | 1.18E-06 | 2.53E-09   |                   |
| 14   | 2  | Surface | Uranium       | mg/kg | 2.93E+02 | 1.38E-04  | 3.93E-04 | 2.96E-08   |                   |
| 14   | 2  | Surface | Neptunium-237 | pCi/g | 7.70E-01 | 6.47E+02  |          | 1.39E-01   | 1.42E+01          |
| 14   | 2  | Surface | Thorium-230   | pCi/g | 5.98E+00 | 5.02E+03  |          | 1.08E+00   | 1.10E+02          |
| 14   | 2  | Surface | Uranium-234   | pCi/g | 3.24E+01 | 2.72E+04  |          | 5.85E+00   | 5.97E+02          |
| 14   | 2  | Surface | Uranium-235   | pCi/g | 2.00E+00 | 1.68E+03  |          | 3.61E-01   | 3.68E+01          |
| 14   | 2  | Surface | Uranium-238   | pCi/g | 5.61E+01 | 4.71E+04  |          | 1.01E+01   | 1.03E+03          |
| 14   | 3  | Surface | Arsenic       | mg/kg | 1.30E+01 | 6.09E-06  | 1.04E-05 | 1.31E-09   |                   |
| 14   | 3  | Surface | Chromium      | mg/kg | 7.01E+01 | 3.29E-05  | 9.39E-05 | 7.08E-09   |                   |
| 14   | 3  | Surface | Copper        | mg/kg | 1.29E+02 | 6.07E-05  | 1.73E-04 | 1.31E-08   |                   |
| 14   | 3  | Surface | Iron          | mg/kg | 3.48E+04 | 1.64E-02  | 4.66E-02 | 3.52E-06   |                   |
| 14   | 3  | Surface | Manganese     | mg/kg | 1.06E+03 | 4.96E-04  | 1.13E-03 | 1.07E-07   |                   |
| 14   | 3  | Surface | Mercury       | mg/kg | 7.48E+00 | 3.51E-06  | 1.00E-05 | 2.27E-05   |                   |
| 14   | 3  | Surface | Molybdenum    | mg/kg | 2.21E+01 | 1.04E-05  | 2.95E-05 | 2.23E-09   |                   |
| 14   | 3  | Surface | Nickel        | mg/kg | 5.76E+02 | 2.71E-04  | 6.17E-04 | 5.82E-08   |                   |
| 14   | 3  | Surface | PCB, Total    | mg/kg | 8.65E+00 | 4.06E-06  | 3.24E-05 | 1.48E-06   |                   |
| 14   | 3  | Surface | Uranium       | mg/kg | 2.18E+02 | 1.02E-04  | 2.91E-04 | 2.20E-08   |                   |
| 14   | 3  | Surface | Uranium-238   | pCi/g | 1.50E+00 | 1.26E+03  |          | 2.71E-01   | 2.76E+01          |
| 14   | 4  | Surface | Antimony      | mg/kg | 4.30E+00 | 2.02E-06  | 5.76E-06 | 4.34E-10   |                   |
| 14   | 4  | Surface | Arsenic       | mg/kg | 1.33E+01 | 6.24E-06  | 1.07E-05 | 1.34E-09   |                   |
| 14   | 4  | Surface | Chromium      | mg/kg | 7.20E+01 | 3.38E-05  | 9.64E-05 | 7.27E-09   |                   |
| 14   | 4  | Surface | Copper        | mg/kg | 3.54E+02 | 1.66E-04  | 4.73E-04 | 3.57E-08   |                   |
| 14   | 4  | Surface | Iron          | mg/kg | 3.88E+04 | 1.82E-02  | 5.20E-02 | 3.92E-06   |                   |
| 14   | 4  | Surface | Mercury       | mg/kg | 4.87E-01 | 2.29E-07  | 6.52E-07 | 1.48E-06   |                   |
| 14   | 4  | Surface | Nickel        | mg/kg | 7.31E+02 | 3.43E-04  | 7.82E-04 | 7.38E-08   |                   |
| 14   | 4  | Surface | PCB, Total    | mg/kg | 6.61E+00 | 3.10E-06  | 2.48E-05 | 1.13E-06   |                   |
| 14   | 4  | Surface | Silver        | mg/kg | 1.17E+01 | 5.50E-06  | 1.25E-05 | 1.18E-09   |                   |
| 14   | 4  | Surface | Total PAH     | mg/kg | 2.51E-01 | 1.18E-07  | 8.73E-07 | 1.88E-09   |                   |
| 14   | 4  | Surface | Uranium       | mg/kg | 3.72E+02 | 1.75E-04  | 4.98E-04 | 3.75E-08   |                   |
| 14   | 4  | Surface | Neptunium-237 | pCi/g | 2.68E+00 | 2.25E+03  |          | 4.84E-01   | 4.93E+01          |
| 14   | 4  | Surface | Thorium-230   | pCi/g | 8.33E+00 | 7.00E+03  |          | 1.50E+00   | 1.53E+02          |
| 14   | 4  | Surface | Uranium-234   | pCi/g | 1.13E+02 | 9.49E+04  |          | 2.04E+01   | 2.08E+03          |
| 14   | 4  | Surface | Uranium-235   | pCi/g | 8.00E+00 | 6.72E+03  |          | 1.44E+00   | 1.47E+02          |
| 14   | 4  | Surface | Uranium-238   | pCi/g | 1.69E+02 | 1.42E+05  |          | 3.05E+01   | 3.11E+03          |
| 14   | 5  | Surface | Antimony      | mg/kg | 2.30E+00 | 1.08E-06  | 3.08E-06 | 2.32E-10   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 5  | Surface | Arsenic       | mg/kg | 1.31E+01 | 6.14E-06  | 1.05E-05 | 1.32E-09   |                   |
| 14   | 5  | Surface | Cadmium       | mg/kg | 3.90E+00 | 1.83E-06  | 1.04E-07 | 3.94E-10   |                   |
| 14   | 5  | Surface | Chromium      | mg/kg | 4.70E+01 | 2.21E-05  | 6.29E-05 | 4.74E-09   |                   |
| 14   | 5  | Surface | Cobalt        | mg/kg | 1.40E+01 | 6.58E-06  | 1.87E-05 | 1.41E-09   |                   |
| 14   | 5  | Surface | Copper        | mg/kg | 1.34E+02 | 6.27E-05  | 1.79E-04 | 1.35E-08   |                   |
| 14   | 5  | Surface | Iron          | mg/kg | 3.92E+04 | 1.84E-02  | 5.25E-02 | 3.96E-06   |                   |
| 14   | 5  | Surface | Manganese     | mg/kg | 8.28E+02 | 3.89E-04  | 8.86E-04 | 8.36E-08   |                   |
| 14   | 5  | Surface | Mercury       | mg/kg | 1.09E+01 | 5.14E-06  | 1.46E-05 | 3.31E-05   |                   |
| 14   | 5  | Surface | Nickel        | mg/kg | 4.61E+02 | 2.17E-04  | 4.94E-04 | 4.66E-08   |                   |
| 14   | 5  | Surface | PCB, Total    | mg/kg | 1.00E+00 | 4.70E-07  | 3.75E-06 | 1.71E-07   |                   |
| 14   | 5  | Surface | Silver        | mg/kg | 1.29E+01 | 6.04E-06  | 1.38E-05 | 1.30E-09   |                   |
| 14   | 5  | Surface | Thallium      | mg/kg | 4.10E-01 | 1.93E-07  | 5.49E-07 | 4.14E-11   |                   |
| 14   | 5  | Surface | Total PAH     | mg/kg | 1.21E-01 | 5.68E-08  | 4.21E-07 | 9.07E-10   |                   |
| 14   | 5  | Surface | Uranium       | mg/kg | 2.62E+02 | 1.23E-04  | 3.51E-04 | 2.65E-08   |                   |
| 14   | 5  | Surface | Neptunium-237 | pCi/g | 1.74E+00 | 1.46E+03  |          | 3.14E-01   | 3.20E+01          |
| 14   | 5  | Surface | Technetium-99 | pCi/g | 1.01E+02 | 8.48E+04  |          | 1.82E+01   | 1.86E+03          |
| 14   | 5  | Surface | Thorium-230   | pCi/g | 1.39E+01 | 1.17E+04  |          | 2.51E+00   | 2.56E+02          |
| 14   | 5  | Surface | Uranium-234   | pCi/g | 5.22E+01 | 4.38E+04  |          | 9.43E+00   | 9.61E+02          |
| 14   | 5  | Surface | Uranium-235   | pCi/g | 3.33E+00 | 2.80E+03  |          | 6.01E-01   | 6.13E+01          |
| 14   | 5  | Surface | Uranium-238   | pCi/g | 9.42E+01 | 7.91E+04  |          | 1.70E+01   | 1.73E+03          |
| 14   | 6  | Surface | Antimony      | mg/kg | 2.70E+00 | 1.27E-06  | 3.61E-06 | 2.73E-10   |                   |
| 14   | 6  | Surface | Cadmium       | mg/kg | 8.40E-01 | 3.95E-07  | 2.25E-08 | 8.48E-11   |                   |
| 14   | 6  | Surface | Chromium      | mg/kg | 4.46E+02 | 2.09E-04  | 5.97E-04 | 4.50E-08   |                   |
| 14   | 6  | Surface | Copper        | mg/kg | 1.22E+02 | 5.74E-05  | 1.64E-04 | 1.23E-08   |                   |
| 14   | 6  | Surface | Mercury       | mg/kg | 3.47E-01 | 1.63E-07  | 4.64E-07 | 1.05E-06   |                   |
| 14   | 6  | Surface | Nickel        | mg/kg | 9.63E+02 | 4.52E-04  | 1.03E-03 | 9.73E-08   |                   |
| 14   | 6  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 2.35E-06  | 1.87E-05 | 8.57E-07   |                   |
| 14   | 6  | Surface | Silver        | mg/kg | 1.19E+01 | 5.58E-06  | 1.27E-05 | 1.20E-09   |                   |
| 14   | 6  | Surface | Uranium       | mg/kg | 5.79E+02 | 2.72E-04  | 7.75E-04 | 5.84E-08   |                   |
| 14   | 6  | Surface | Neptunium-237 | pCi/g | 2.65E+00 | 2.23E+03  |          | 4.79E-01   | 4.88E+01          |
| 14   | 6  | Surface | Uranium-234   | pCi/g | 3.41E+01 | 2.86E+04  |          | 6.16E+00   | 6.28E+02          |
| 14   | 6  | Surface | Uranium-235   | pCi/g | 2.27E+00 | 1.91E+03  |          | 4.10E-01   | 4.18E+01          |
| 14   | 6  | Surface | Uranium-238   | pCi/g | 5.08E+01 | 4.27E+04  |          | 9.17E+00   | 9.35E+02          |
| 14   | 7  | Surface | Antimony      | mg/kg | 7.50E-01 | 3.52E-07  | 1.00E-06 | 7.57E-11   |                   |
| 14   | 7  | Surface | Arsenic       | mg/kg | 1.13E+01 | 5.31E-06  | 9.08E-06 | 1.14E-09   |                   |
| 14   | 7  | Surface | Cadmium       | mg/kg | 2.70E+00 | 1.27E-06  | 7.23E-08 | 2.73E-10   |                   |
| 14   | 7  | Surface | Chromium      | mg/kg | 6.46E+01 | 3.03E-05  | 8.64E-05 | 6.52E-09   |                   |
| 14   | 7  | Surface | Mercury       | mg/kg | 7.82E+00 | 3.67E-06  | 1.05E-05 | 2.37E-05   |                   |
| 14   | 7  | Surface | Nickel        | mg/kg | 1.22E+03 | 5.74E-04  | 1.31E-03 | 1.23E-07   |                   |
| 14   | 7  | Surface | PCB, Total    | mg/kg | 7.60E+00 | 3.57E-06  | 2.85E-05 | 1.30E-06   |                   |
| 14   | 7  | Surface | Total PAH     | mg/kg | 6.31E-02 | 2.97E-08  | 2.20E-07 | 4.73E-10   |                   |
| 14   | 7  | Surface | Uranium       | mg/kg | 3.33E+02 | 1.56E-04  | 4.46E-04 | 3.36E-08   |                   |
| 14   | 7  | Surface | Neptunium-237 | pCi/g | 1.49E+00 | 1.25E+03  |          | 2.69E-01   | 2.74E+01          |
| 14   | 7  | Surface | Uranium-234   | pCi/g | 1.28E+01 | 1.08E+04  |          | 2.31E+00   | 2.36E+02          |
| 14   | 7  | Surface | Uranium-235   | pCi/g | 9.60E-01 | 8.06E+02  |          | 1.73E-01   | 1.77E+01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 7  | Surface | Uranium-238   | pCi/g | 2.13E+01 | 1.79E+04  |          | 3.85E+00   | 3.92E+02          |
| 14   | 8  | Surface | Antimony      | mg/kg | 6.10E-01 | 2.86E-07  | 8.17E-07 | 6.16E-11   |                   |
| 14   | 8  | Surface | Arsenic       | mg/kg | 1.14E+01 | 5.34E-06  | 9.14E-06 | 1.15E-09   |                   |
| 14   | 8  | Surface | Chromium      | mg/kg | 4.60E+01 | 2.16E-05  | 6.16E-05 | 4.65E-09   |                   |
| 14   | 8  | Surface | Mercury       | mg/kg | 7.90E+00 | 3.71E-06  | 1.06E-05 | 2.39E-05   |                   |
| 14   | 8  | Surface | Nickel        | mg/kg | 6.73E+02 | 3.16E-04  | 7.20E-04 | 6.79E-08   |                   |
| 14   | 8  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 2.35E-06  | 1.87E-05 | 8.57E-07   |                   |
| 14   | 8  | Surface | Silver        | mg/kg | 9.63E+00 | 4.52E-06  | 1.03E-05 | 9.72E-10   |                   |
| 14   | 8  | Surface | Total PAH     | mg/kg | 6.28E-02 | 2.95E-08  | 2.18E-07 | 4.70E-10   |                   |
| 14   | 8  | Surface | Uranium       | mg/kg | 3.35E+02 | 1.57E-04  | 4.49E-04 | 3.39E-08   |                   |
| 14   | 8  | Surface | Neptunium-237 | pCi/g | 8.80E-01 | 7.39E+02  |          | 1.59E-01   | 1.62E+01          |
| 14   | 8  | Surface | Uranium-235   | pCi/g | 2.38E-01 | 2.00E+02  |          | 4.30E-02   | 4.38E+00          |
| 14   | 8  | Surface | Uranium-238   | pCi/g | 5.92E+00 | 4.97E+03  |          | 1.07E+00   | 1.09E+02          |
| 14   | 9  | Surface | Antimony      | mg/kg | 2.00E+00 | 9.39E-07  | 2.68E-06 | 2.02E-10   |                   |
| 14   | 9  | Surface | Arsenic       | mg/kg | 1.40E+01 | 6.59E-06  | 1.13E-05 | 1.42E-09   |                   |
| 14   | 9  | Surface | Cadmium       | mg/kg | 9.40E-01 | 4.41E-07  | 2.52E-08 | 9.49E-11   |                   |
| 14   | 9  | Surface | Chromium      | mg/kg | 4.64E+01 | 2.18E-05  | 6.22E-05 | 4.69E-09   |                   |
| 14   | 9  | Surface | Mercury       | mg/kg | 1.13E+00 | 5.31E-07  | 1.51E-06 | 3.42E-06   |                   |
| 14   | 9  | Surface | Nickel        | mg/kg | 9.43E+02 | 4.43E-04  | 1.01E-03 | 9.52E-08   |                   |
| 14   | 9  | Surface | PCB, Total    | mg/kg | 6.84E+00 | 3.21E-06  | 2.56E-05 | 1.17E-06   |                   |
| 14   | 9  | Surface | Total PAH     | mg/kg | 4.87E-01 | 2.29E-07  | 1.70E-06 | 3.65E-09   |                   |
| 14   | 9  | Surface | Uranium       | mg/kg | 1.46E+03 | 6.88E-04  | 1.96E-03 | 1.48E-07   |                   |
| 14   | 9  | Surface | Cesium-137    | pCi/g | 4.53E-01 | 3.81E+02  |          | 8.18E-02   | 8.34E+00          |
| 14   | 9  | Surface | Neptunium-237 | pCi/g | 1.09E+01 | 9.18E+03  |          | 1.97E+00   | 2.01E+02          |
| 14   | 9  | Surface | Technetium-99 | pCi/g | 1.96E+02 | 1.65E+05  |          | 3.54E+01   | 3.61E+03          |
| 14   | 9  | Surface | Uranium-234   | pCi/g | 8.32E+02 | 6.99E+05  |          | 1.50E+02   | 1.53E+04          |
| 14   | 9  | Surface | Uranium-235   | pCi/g | 5.46E+01 | 4.58E+04  |          | 9.85E+00   | 1.00E+03          |
| 14   | 9  | Surface | Uranium-238   | pCi/g | 1.20E+03 | 1.01E+06  |          | 2.17E+02   | 2.21E+04          |
| 14   | 10 | Surface | Antimony      | mg/kg | 9.40E-01 | 4.41E-07  | 1.26E-06 | 9.49E-11   |                   |
| 14   | 10 | Surface | Arsenic       | mg/kg | 1.12E+01 | 5.28E-06  | 9.03E-06 | 1.13E-09   |                   |
| 14   | 10 | Surface | Chromium      | mg/kg | 4.19E+01 | 1.97E-05  | 5.60E-05 | 4.23E-09   |                   |
| 14   | 10 | Surface | Copper        | mg/kg | 1.41E+02 | 6.63E-05  | 1.89E-04 | 1.43E-08   |                   |
| 14   | 10 | Surface | Iron          | mg/kg | 2.75E+04 | 1.29E-02  | 3.67E-02 | 2.77E-06   |                   |
| 14   | 10 | Surface | Mercury       | mg/kg | 2.51E+01 | 1.18E-05  | 3.36E-05 | 7.60E-05   |                   |
| 14   | 10 | Surface | Nickel        | mg/kg | 6.00E+02 | 2.82E-04  | 6.43E-04 | 6.06E-08   |                   |
| 14   | 10 | Surface | PCB, Total    | mg/kg | 9.38E+00 | 4.41E-06  | 3.52E-05 | 1.61E-06   |                   |
| 14   | 10 | Surface | Total PAH     | mg/kg | 2.72E-01 | 1.28E-07  | 9.45E-07 | 2.03E-09   |                   |
| 14   | 10 | Surface | Uranium       | mg/kg | 2.88E+02 | 1.35E-04  | 3.86E-04 | 2.91E-08   |                   |
| 14   | 10 | Surface | Neptunium-237 | pCi/g | 2.64E+00 | 2.22E+03  |          | 4.77E-01   | 4.86E+01          |
| 14   | 10 | Surface | Uranium-234   | pCi/g | 2.42E+01 | 2.03E+04  |          | 4.37E+00   | 4.46E+02          |
| 14   | 10 | Surface | Uranium-235   | pCi/g | 1.76E+00 | 1.48E+03  |          | 3.18E-01   | 3.24E+01          |
| 14   | 10 | Surface | Uranium-238   | pCi/g | 4.09E+01 | 3.44E+04  |          | 7.39E+00   | 7.53E+02          |
| 518  | 1  | Surface | Carbazole     | mg/kg | 1.17E+01 | 5.50E-06  | 3.14E-05 | 5.51E-07   |                   |
| 518  | 1  | Surface | Cobalt        | mg/kg | 6.80E+00 | 3.20E-06  | 9.11E-06 | 6.87E-10   |                   |
| 518  | 1  | Surface | Nickel        | mg/kg | 1.29E+01 | 6.04E-06  | 1.38E-05 | 1.30E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 518  | 1  | Surface | PCB, Total    | mg/kg | 6.30E-01 | 2.96E-07  | 2.36E-06 | 1.08E-07   |                   |
| 518  | 1  | Surface | Pyrene        | mg/kg | 3.94E+01 | 1.85E-05  | 1.37E-04 | 2.63E-06   |                   |
| 518  | 1  | Surface | Total PAH     | mg/kg | 3.90E+01 | 1.83E-05  | 1.36E-04 | 2.92E-07   |                   |
| 518  | 1  | Surface | Uranium       | mg/kg | 2.17E+02 | 1.02E-04  | 2.90E-04 | 2.19E-08   |                   |
| 518  | 1  | Surface | Uranium-235   | pCi/g | 6.74E-02 | 5.66E+01  |          | 1.22E-02   | 1.24E+00          |
| 518  | 1  | Surface | Uranium-238   | pCi/g | 1.51E+00 | 1.27E+03  |          | 2.73E-01   | 2.79E+01          |
| 520  | 1  | Surface | Chromium      | mg/kg | 3.17E+01 | 1.49E-05  | 4.25E-05 | 3.20E-09   |                   |
| 520  | 1  | Surface | Iron          | mg/kg | 1.56E+04 | 7.32E-03  | 2.09E-02 | 1.57E-06   |                   |
| 520  | 1  | Surface | Mercury       | mg/kg | 1.07E+01 | 5.02E-06  | 1.43E-05 | 3.23E-05   |                   |
| 520  | 1  | Surface | Nickel        | mg/kg | 2.60E+02 | 1.22E-04  | 2.79E-04 | 2.63E-08   |                   |
| 520  | 1  | Surface | Silver        | mg/kg | 1.30E+01 | 6.09E-06  | 1.39E-05 | 1.31E-09   |                   |
| 520  | 1  | Surface | Total PAH     | mg/kg | 3.18E-02 | 1.50E-08  | 1.11E-07 | 2.39E-10   |                   |
| 520  | 1  | Surface | Uranium       | mg/kg | 2.29E+01 | 1.08E-05  | 3.07E-05 | 2.32E-09   |                   |
| 520  | 1  | Surface | Cesium-137    | pCi/g | 9.62E-01 | 8.08E+02  |          | 1.74E-01   | 1.77E+01          |
| 520  | 1  | Surface | Neptunium-237 | pCi/g | 6.56E-01 | 5.51E+02  |          | 1.18E-01   | 1.21E+01          |
| 520  | 1  | Surface | Thorium-230   | pCi/g | 1.13E+01 | 9.53E+03  |          | 2.05E+00   | 2.09E+02          |
| 520  | 1  | Surface | Uranium-235   | pCi/g | 1.26E-01 | 1.06E+02  |          | 2.28E-02   | 2.32E+00          |
| 520  | 1  | Surface | Uranium-238   | pCi/g | 3.93E+00 | 3.30E+03  |          | 7.09E-01   | 7.23E+01          |
| 520  | 2  | Surface | Beryllium     | mg/kg | 5.79E-01 | 2.72E-07  | 1.09E-07 | 5.85E-11   |                   |
| 520  | 2  | Surface | Chromium      | mg/kg | 6.67E+01 | 3.13E-05  | 8.92E-05 | 6.73E-09   |                   |
| 520  | 2  | Surface | Manganese     | mg/kg | 5.89E+02 | 2.77E-04  | 6.31E-04 | 5.95E-08   |                   |
| 520  | 2  | Surface | Mercury       | mg/kg | 1.19E+01 | 5.58E-06  | 1.59E-05 | 3.60E-05   |                   |
| 520  | 2  | Surface | Nickel        | mg/kg | 3.11E+02 | 1.46E-04  | 3.32E-04 | 3.13E-08   |                   |
| 520  | 2  | Surface | Total PAH     | mg/kg | 3.17E-01 | 1.49E-07  | 1.10E-06 | 2.38E-09   |                   |
| 520  | 2  | Surface | Uranium       | mg/kg | 3.96E+01 | 1.86E-05  | 5.30E-05 | 3.99E-09   |                   |
| 520  | 2  | Surface | Neptunium-237 | pCi/g | 7.48E-02 | 6.28E+01  |          | 1.35E-02   | 1.38E+00          |
| 520  | 2  | Surface | Uranium-238   | pCi/g | 1.78E+00 | 1.49E+03  |          | 3.21E-01   | 3.27E+01          |
| 520  | 3  | Surface | Chromium      | mg/kg | 3.97E+01 | 1.86E-05  | 5.31E-05 | 4.01E-09   |                   |
| 520  | 3  | Surface | Copper        | mg/kg | 1.19E+02 | 5.59E-05  | 1.59E-04 | 1.20E-08   |                   |
| 520  | 3  | Surface | Nickel        | mg/kg | 2.65E+02 | 1.24E-04  | 2.84E-04 | 2.67E-08   |                   |
| 520  | 3  | Surface | Silver        | mg/kg | 1.27E+01 | 5.95E-06  | 1.36E-05 | 1.28E-09   |                   |
| 520  | 3  | Surface | Total PAH     | mg/kg | 1.18E-01 | 5.55E-08  | 4.11E-07 | 8.85E-10   |                   |
| 520  | 3  | Surface | Uranium       | mg/kg | 1.92E+01 | 9.03E-06  | 2.57E-05 | 1.94E-09   |                   |
| 520  | 3  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 1.32E+03  |          | 2.83E-01   | 2.89E+01          |
| 520  | 4  | Surface | Chromium      | mg/kg | 3.82E+01 | 1.80E-05  | 5.12E-05 | 3.86E-09   |                   |
| 520  | 4  | Surface | Copper        | mg/kg | 1.11E+02 | 5.19E-05  | 1.48E-04 | 1.12E-08   |                   |
| 520  | 4  | Surface | Mercury       | mg/kg | 9.69E+00 | 4.55E-06  | 1.30E-05 | 2.94E-05   |                   |
| 520  | 4  | Surface | Nickel        | mg/kg | 2.82E+02 | 1.32E-04  | 3.02E-04 | 2.85E-08   |                   |
| 520  | 4  | Surface | Silver        | mg/kg | 1.04E+01 | 4.90E-06  | 1.12E-05 | 1.05E-09   |                   |
| 520  | 4  | Surface | Total PAH     | mg/kg | 5.52E-01 | 2.59E-07  | 1.92E-06 | 4.14E-09   |                   |
| 520  | 4  | Surface | Uranium       | mg/kg | 2.40E+01 | 1.13E-05  | 3.22E-05 | 2.43E-09   |                   |
| 520  | 4  | Surface | Neptunium-237 | pCi/g | 7.40E-01 | 6.22E+02  |          | 1.34E-01   | 1.36E+01          |
| 520  | 4  | Surface | Uranium-235   | pCi/g | 2.42E-01 | 2.03E+02  |          | 4.37E-02   | 4.46E+00          |
| 520  | 4  | Surface | Uranium-238   | pCi/g | 6.26E+00 | 5.26E+03  |          | 1.13E+00   | 1.15E+02          |
| 520  | 5  | Surface | Antimony      | mg/kg | 9.60E-01 | 4.51E-07  | 1.29E-06 | 9.69E-11   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.18. Cancerous CDIs for the Adult Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 520  | 5  | Surface | Chromium      | mg/kg | 3.68E+01 | 1.73E-05  | 4.93E-05 | 3.72E-09   |                   |
| 520  | 5  | Surface | Nickel        | mg/kg | 1.47E+02 | 6.90E-05  | 1.57E-04 | 1.48E-08   |                   |
| 520  | 5  | Surface | Total PAH     | mg/kg | 3.87E-01 | 1.82E-07  | 1.35E-06 | 2.90E-09   |                   |
| 520  | 5  | Surface | Neptunium-237 | pCi/g | 1.55E-01 | 1.30E+02  |          | 2.80E-02   | 2.85E+00          |
| 520  | 5  | Surface | Uranium-238   | pCi/g | 1.45E+00 | 1.22E+03  |          | 2.62E-01   | 2.67E+01          |
| 81   | 1  | Surface | Aluminum      | mg/kg | 9.57E+03 | 4.50E-03  | 1.28E-02 | 9.67E-07   |                   |
| 81   | 1  | Surface | Arsenic       | mg/kg | 1.03E+01 | 4.81E-06  | 8.23E-06 | 1.03E-09   |                   |
| 81   | 1  | Surface | Beryllium     | mg/kg | 7.57E-01 | 3.56E-07  | 1.42E-07 | 7.64E-11   |                   |
| 81   | 1  | Surface | Chromium      | mg/kg | 8.62E+01 | 4.05E-05  | 1.15E-04 | 8.70E-09   |                   |
| 81   | 1  | Surface | Mercury       | mg/kg | 8.33E+00 | 3.91E-06  | 1.12E-05 | 2.52E-05   |                   |
| 81   | 1  | Surface | Nickel        | mg/kg | 7.29E+01 | 3.42E-05  | 7.80E-05 | 7.36E-09   |                   |
| 81   | 1  | Surface | PCB, Total    | mg/kg | 1.60E+02 | 7.51E-05  | 5.99E-04 | 2.74E-05   |                   |
| 81   | 1  | Surface | Silver        | mg/kg | 2.70E+00 | 1.27E-06  | 2.89E-06 | 2.73E-10   |                   |
| 81   | 1  | Surface | Total PAH     | mg/kg | 5.53E-01 | 2.60E-07  | 1.92E-06 | 4.14E-09   |                   |
| 81   | 1  | Surface | Uranium       | mg/kg | 6.50E+03 | 3.05E-03  | 8.70E-03 | 6.56E-07   |                   |
| 81   | 1  | Surface | Uranium-238   | pCi/g | 2.29E+00 | 1.92E+03  |          | 4.13E-01   | 4.21E+01          |
| 153  | 1  | Surface | PCB, Total    | mg/kg | 5.09E-01 | 2.39E-07  | 1.91E-06 | 8.73E-08   |                   |
| 153  | 1  | Surface | Total PAH     | mg/kg | 8.69E-02 | 4.08E-08  | 3.02E-07 | 6.51E-10   |                   |
| 156  | 1  | Surface | Chromium      | mg/kg | 4.90E+01 | 2.30E-05  | 6.56E-05 | 4.95E-09   |                   |
| 156  | 1  | Surface | Manganese     | mg/kg | 2.83E+03 | 1.33E-03  | 3.03E-03 | 2.86E-07   |                   |
| 156  | 1  | Surface | Mercury       | mg/kg | 9.87E+00 | 4.64E-06  | 1.32E-05 | 2.99E-05   |                   |
| 156  | 1  | Surface | Nickel        | mg/kg | 6.16E+01 | 2.89E-05  | 6.60E-05 | 6.22E-09   |                   |
| 156  | 1  | Surface | PCB, Total    | mg/kg | 3.00E-01 | 1.41E-07  | 1.12E-06 | 5.14E-08   |                   |
| 156  | 1  | Surface | Total PAH     | mg/kg | 8.26E-02 | 3.88E-08  | 2.87E-07 | 6.19E-10   |                   |
| 156  | 1  | Surface | Uranium       | mg/kg | 2.32E+01 | 1.09E-05  | 3.10E-05 | 2.34E-09   |                   |
| 156  | 1  | Surface | Uranium-238   | pCi/g | 2.19E+00 | 1.84E+03  |          | 3.95E-01   | 4.03E+01          |
| 160  | 1  | Surface | Antimony      | mg/kg | 6.80E-01 | 3.19E-07  | 9.10E-07 | 6.87E-11   |                   |
| 160  | 1  | Surface | Total PAH     | mg/kg | 5.29E-02 | 2.48E-08  | 1.84E-07 | 3.97E-10   |                   |
| 163  | 1  | Surface | Chromium      | mg/kg | 4.94E+01 | 2.32E-05  | 6.62E-05 | 4.99E-09   |                   |
| 163  | 1  | Surface | Total PAH     | mg/kg | 1.63E-01 | 7.66E-08  | 5.67E-07 | 1.22E-09   |                   |
| 219  | 1  | Surface | Nickel        | mg/kg | 6.71E+01 | 3.15E-05  | 7.19E-05 | 6.78E-09   |                   |
| 219  | 1  | Surface | Total PAH     | mg/kg | 7.50E-02 | 3.52E-08  | 2.61E-07 | 5.62E-10   |                   |
| 219  | 1  | Surface | Neptunium-237 | pCi/g | 3.31E-01 | 2.78E+02  |          | 5.98E-02   | 6.09E+00          |
| 219  | 1  | Surface | Uranium-235   | pCi/g | 1.92E-01 | 1.61E+02  |          | 3.47E-02   | 3.53E+00          |
| 219  | 1  | Surface | Uranium-238   | pCi/g | 4.40E+00 | 3.70E+03  |          | 7.95E-01   | 8.10E+01          |
| 488  | 1  | Surface | PCB, Total    | mg/kg | 1.03E+01 | 4.84E-06  | 3.86E-05 | 1.77E-06   |                   |
| 488  | 1  | Surface | Total PAH     | mg/kg | 2.50E-01 | 1.17E-07  | 8.69E-07 | 1.87E-09   |                   |
| 488  | 1  | Surface | Uranium       | mg/kg | 1.48E+01 | 6.95E-06  | 1.98E-05 | 1.49E-09   |                   |
| 488  | 1  | Surface | Cesium-137    | pCi/g | 5.20E-01 | 4.37E+02  |          | 9.39E-02   | 9.57E+00          |
| 488  | 1  | Surface | Uranium-235   | pCi/g | 1.49E-01 | 1.25E+02  |          | 2.69E-02   | 2.74E+00          |
| 488  | 1  | Surface | Uranium-238   | pCi/g | 4.54E+00 | 3.81E+03  |          | 8.20E-01   | 8.36E+01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 1           | 1         | Surface      | Beryllium   | mg/kg        | 3.89E+00   | 4.98E-05         | 4.88E-06      | 5.35E-09          |
| 1           | 1         | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 1.41E-05         | 1.97E-07      | 1.51E-09          |
| 1           | 1         | Surface      | Chromium    | mg/kg        | 1.28E+01   | 1.64E-04         | 1.15E-04      | 1.76E-08          |
| 1           | 1         | Surface      | PCB, Total  | mg/kg        | 1.76E-01   | 2.25E-06         | 4.41E-06      | 4.11E-07          |
| 1           | 2         | Surface      | Beryllium   | mg/kg        | 8.23E+00   | 1.05E-04         | 1.03E-05      | 1.13E-08          |
| 1           | 2         | Surface      | Cadmium     | mg/kg        | 6.46E+00   | 8.26E-05         | 1.16E-06      | 8.88E-09          |
| 1           | 2         | Surface      | Chromium    | mg/kg        | 2.01E+02   | 2.57E-03         | 1.80E-03      | 2.76E-07          |
| 1           | 2         | Surface      | Copper      | mg/kg        | 1.81E+02   | 2.31E-03         | 1.62E-03      | 2.49E-07          |
| 1           | 2         | Surface      | Mercury     | mg/kg        | 5.94E+00   | 7.59E-05         | 5.32E-05      | 2.45E-04          |
| 1           | 2         | Surface      | Nickel      | mg/kg        | 5.75E+01   | 7.35E-04         | 4.11E-04      | 7.90E-08          |
| 1           | 2         | Surface      | PCB, Total  | mg/kg        | 3.21E+01   | 4.11E-04         | 8.05E-04      | 7.49E-05          |
| 1           | 2         | Surface      | Silver      | mg/kg        | 3.31E+01   | 4.24E-04         | 2.37E-04      | 4.55E-08          |
| 1           | 2         | Surface      | Thallium    | mg/kg        | 3.70E-01   | 4.73E-06         | 3.31E-06      | 5.08E-10          |
| 1           | 2         | Surface      | Vanadium    | mg/kg        | 3.49E+01   | 4.46E-04         | 1.62E-04      | 4.79E-08          |
| 1           | 3         | Surface      | Chromium    | mg/kg        | 1.45E+01   | 1.85E-04         | 1.30E-04      | 1.99E-08          |
| 1           | 3         | Surface      | PCB, Total  | mg/kg        | 2.17E-01   | 2.77E-06         | 5.44E-06      | 5.06E-07          |
| 1           | 4         | Surface      | Beryllium   | mg/kg        | 7.25E-01   | 9.27E-06         | 9.08E-07      | 9.96E-10          |
| 1           | 4         | Surface      | Chromium    | mg/kg        | 9.30E+01   | 1.19E-03         | 8.33E-04      | 1.28E-07          |
| 1           | 4         | Surface      | Nickel      | mg/kg        | 4.69E+01   | 5.99E-04         | 3.36E-04      | 6.44E-08          |
| 1           | 4         | Surface      | PCB, Total  | mg/kg        | 1.30E-01   | 1.66E-06         | 3.26E-06      | 3.03E-07          |
| 1           | 5         | Surface      | Beryllium   | mg/kg        | 8.30E+00   | 1.06E-04         | 1.04E-05      | 1.14E-08          |
| 1           | 5         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 1.53E-05         | 2.15E-07      | 1.65E-09          |
| 1           | 5         | Surface      | Nickel      | mg/kg        | 4.07E+01   | 5.20E-04         | 2.91E-04      | 5.59E-08          |
| 1           | 5         | Surface      | PCB, Total  | mg/kg        | 2.70E-01   | 3.45E-06         | 6.77E-06      | 6.30E-07          |
| 1           | 5         | Surface      | Total PAH   | mg/kg        | 9.83E-02   | 1.26E-06         | 2.29E-06      | 1.00E-08          |
| 99          | 1         | Surface      | Chromium    | mg/kg        | 5.51E+01   | 7.04E-04         | 4.93E-04      | 7.57E-08          |
| 99          | 1         | Surface      | Mercury     | mg/kg        | 9.53E+00   | 1.22E-04         | 8.53E-05      | 3.93E-04          |
| 99          | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 8.98E-04         | 5.03E-04      | 9.65E-08          |
| 99          | 1         | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.32E-04         | 7.37E-05      | 1.42E-08          |
| 194         | 1         | Surface      | Antimony    | mg/kg        | 1.50E+00   | 1.92E-05         | 1.34E-05      | 2.06E-09          |
| 194         | 1         | Surface      | Chromium    | mg/kg        | 3.87E+01   | 4.95E-04         | 3.46E-04      | 5.32E-08          |
| 194         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 8.58E-05         | 6.01E-05      | 2.77E-04          |
| 194         | 1         | Surface      | Nickel      | mg/kg        | 5.84E+01   | 7.47E-04         | 4.18E-04      | 8.03E-08          |
| 194         | 1         | Surface      | Silver      | mg/kg        | 1.09E+01   | 1.40E-04         | 7.83E-05      | 1.50E-08          |
| 194         | 2         | Surface      | Chromium    | mg/kg        | 5.96E+01   | 7.62E-04         | 5.33E-04      | 8.19E-08          |
| 194         | 2         | Surface      | Silver      | mg/kg        | 1.31E+01   | 1.68E-04         | 9.40E-05      | 1.80E-08          |
| 194         | 2         | Surface      | Uranium     | mg/kg        | 2.28E+01   | 2.91E-04         | 2.04E-04      | 3.13E-08          |
| 194         | 3         | Surface      | Antimony    | mg/kg        | 6.90E-01   | 8.82E-06         | 6.18E-06      | 9.48E-10          |
| 194         | 3         | Surface      | Arsenic     | mg/kg        | 1.46E+01   | 1.87E-04         | 7.86E-05      | 2.01E-08          |
| 194         | 3         | Surface      | Chromium    | mg/kg        | 3.90E+01   | 4.98E-04         | 3.49E-04      | 5.36E-08          |
| 194         | 3         | Surface      | Nickel      | mg/kg        | 6.40E+01   | 8.19E-04         | 4.59E-04      | 8.80E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 3         | Surface      | Total PAH   | mg/kg        | 3.93E-02   | 5.02E-07         | 9.14E-07      | 4.01E-09          |
| 194         | 4         | Surface      | Chromium    | mg/kg        | 4.84E+01   | 6.19E-04         | 4.33E-04      | 6.65E-08          |
| 194         | 4         | Surface      | Mercury     | mg/kg        | 8.92E+00   | 1.14E-04         | 7.98E-05      | 3.68E-04          |
| 194         | 4         | Surface      | Nickel      | mg/kg        | 6.91E+01   | 8.83E-04         | 4.94E-04      | 9.49E-08          |
| 194         | 4         | Surface      | Silver      | mg/kg        | 1.18E+01   | 1.51E-04         | 8.43E-05      | 1.62E-08          |
| 194         | 4         | Surface      | Total PAH   | mg/kg        | 7.30E-02   | 9.33E-07         | 1.70E-06      | 7.44E-09          |
| 194         | 5         | Surface      | Chromium    | mg/kg        | 4.58E+01   | 5.86E-04         | 4.10E-04      | 6.29E-08          |
| 194         | 5         | Surface      | Mercury     | mg/kg        | 8.69E+00   | 1.11E-04         | 7.78E-05      | 3.58E-04          |
| 194         | 5         | Surface      | Nickel      | mg/kg        | 7.54E+01   | 9.65E-04         | 5.40E-04      | 1.04E-07          |
| 194         | 5         | Surface      | Silver      | mg/kg        | 1.25E+01   | 1.59E-04         | 8.91E-05      | 1.71E-08          |
| 194         | 5         | Surface      | Total PAH   | mg/kg        | 2.37E-02   | 3.03E-07         | 5.51E-07      | 2.42E-09          |
| 194         | 6         | Surface      | Chromium    | mg/kg        | 3.70E+01   | 4.73E-04         | 3.31E-04      | 5.09E-08          |
| 194         | 6         | Surface      | Manganese   | mg/kg        | 1.08E+03   | 1.38E-02         | 7.73E-03      | 1.48E-06          |
| 194         | 6         | Surface      | Nickel      | mg/kg        | 8.06E+01   | 1.03E-03         | 5.77E-04      | 1.11E-07          |
| 194         | 6         | Surface      | Silver      | mg/kg        | 9.89E+00   | 1.26E-04         | 7.08E-05      | 1.36E-08          |
| 194         | 7         | Surface      | Chromium    | mg/kg        | 5.32E+01   | 6.80E-04         | 4.76E-04      | 7.31E-08          |
| 194         | 7         | Surface      | Nickel      | mg/kg        | 7.71E+01   | 9.86E-04         | 5.52E-04      | 1.06E-07          |
| 194         | 7         | Surface      | Silver      | mg/kg        | 1.25E+01   | 1.60E-04         | 8.95E-05      | 1.72E-08          |
| 194         | 8         | Surface      | Chromium    | mg/kg        | 5.36E+01   | 6.85E-04         | 4.80E-04      | 7.36E-08          |
| 194         | 8         | Surface      | Manganese   | mg/kg        | 8.00E+02   | 1.02E-02         | 5.73E-03      | 1.10E-06          |
| 194         | 8         | Surface      | Total PAH   | mg/kg        | 4.85E-01   | 6.20E-06         | 1.13E-05      | 4.95E-08          |
| 194         | 9         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 1.46E-04         | 6.13E-05      | 1.57E-08          |
| 194         | 9         | Surface      | Chromium    | mg/kg        | 5.17E+01   | 6.60E-04         | 4.62E-04      | 7.10E-08          |
| 194         | 10        | Surface      | Arsenic     | mg/kg        | 1.22E+01   | 1.55E-04         | 6.53E-05      | 1.67E-08          |
| 194         | 10        | Surface      | Chromium    | mg/kg        | 3.63E+01   | 4.64E-04         | 3.25E-04      | 4.99E-08          |
| 194         | 10        | Surface      | Nickel      | mg/kg        | 7.60E+01   | 9.72E-04         | 5.44E-04      | 1.04E-07          |
| 194         | 10        | Surface      | Total PAH   | mg/kg        | 2.57E-01   | 3.29E-06         | 5.98E-06      | 2.62E-08          |
| 194         | 11        | Surface      | Chromium    | mg/kg        | 3.27E+01   | 4.18E-04         | 2.92E-04      | 4.49E-08          |
| 194         | 11        | Surface      | Mercury     | mg/kg        | 8.09E+00   | 1.03E-04         | 7.24E-05      | 3.34E-04          |
| 194         | 11        | Surface      | Nickel      | mg/kg        | 1.01E+02   | 1.29E-03         | 7.21E-04      | 1.38E-07          |
| 194         | 11        | Surface      | PCB, Total  | mg/kg        | 8.40E-02   | 1.07E-06         | 2.10E-06      | 1.96E-07          |
| 194         | 11        | Surface      | Silver      | mg/kg        | 1.33E+01   | 1.70E-04         | 9.52E-05      | 1.83E-08          |
| 194         | 11        | Surface      | Total PAH   | mg/kg        | 7.95E-02   | 1.02E-06         | 1.85E-06      | 8.11E-09          |
| 194         | 12        | Surface      | Chromium    | mg/kg        | 6.34E+01   | 8.10E-04         | 5.67E-04      | 8.71E-08          |
| 194         | 12        | Surface      | Nickel      | mg/kg        | 7.86E+01   | 1.00E-03         | 5.63E-04      | 1.08E-07          |
| 194         | 12        | Surface      | Silver      | mg/kg        | 1.20E+01   | 1.53E-04         | 8.58E-05      | 1.65E-08          |
| 194         | 12        | Surface      | Total PAH   | mg/kg        | 8.91E-01   | 1.14E-05         | 2.07E-05      | 9.09E-08          |
| 194         | 13        | Surface      | Chromium    | mg/kg        | 4.77E+01   | 6.09E-04         | 4.26E-04      | 6.55E-08          |
| 194         | 13        | Surface      | Nickel      | mg/kg        | 6.03E+01   | 7.71E-04         | 4.32E-04      | 8.29E-08          |
| 194         | 13        | Surface      | Total PAH   | mg/kg        | 9.13E-02   | 1.17E-06         | 2.13E-06      | 9.32E-09          |
| 194         | 14        | Surface      | Chromium    | mg/kg        | 5.21E+01   | 6.66E-04         | 4.66E-04      | 7.16E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 14        | Surface      | Mercury     | mg/kg        | 8.14E+00   | 1.04E-04         | 7.29E-05      | 3.36E-04          |
| 194         | 15        | Surface      | Chromium    | mg/kg        | 5.33E+01   | 6.82E-04         | 4.77E-04      | 7.33E-08          |
| 194         | 15        | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.32E-04         | 7.38E-05      | 1.42E-08          |
| 194         | 16        | Surface      | Antimony    | mg/kg        | 7.40E-01   | 9.46E-06         | 6.62E-06      | 1.02E-09          |
| 194         | 16        | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 1.47E-04         | 6.19E-05      | 1.58E-08          |
| 194         | 16        | Surface      | Beryllium   | mg/kg        | 8.70E-01   | 1.11E-05         | 1.09E-06      | 1.20E-09          |
| 194         | 16        | Surface      | Chromium    | mg/kg        | 5.32E+01   | 6.81E-04         | 4.76E-04      | 7.32E-08          |
| 194         | 16        | Surface      | Nickel      | mg/kg        | 7.20E+01   | 9.21E-04         | 5.16E-04      | 9.90E-08          |
| 194         | 16        | Surface      | Thallium    | mg/kg        | 6.30E-01   | 8.05E-06         | 5.64E-06      | 8.66E-10          |
| 194         | 16        | Surface      | Vanadium    | mg/kg        | 4.11E+01   | 5.25E-04         | 1.91E-04      | 5.65E-08          |
| 194         | 17        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 1.48E-04         | 6.20E-05      | 1.59E-08          |
| 194         | 17        | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 1.41E-05         | 1.97E-07      | 1.51E-09          |
| 194         | 17        | Surface      | Chromium    | mg/kg        | 4.65E+01   | 5.94E-04         | 4.16E-04      | 6.39E-08          |
| 194         | 17        | Surface      | Total PAH   | mg/kg        | 1.59E-01   | 2.03E-06         | 3.69E-06      | 1.62E-08          |
| 194         | 18        | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 1.35E-04         | 5.68E-05      | 1.45E-08          |
| 194         | 18        | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 9.46E-06         | 9.27E-07      | 1.02E-09          |
| 194         | 18        | Surface      | Chromium    | mg/kg        | 6.85E+01   | 8.76E-04         | 6.13E-04      | 9.41E-08          |
| 194         | 18        | Surface      | Nickel      | mg/kg        | 5.78E+01   | 7.39E-04         | 4.14E-04      | 7.94E-08          |
| 194         | 19        | Surface      | Arsenic     | mg/kg        | 1.07E+01   | 1.37E-04         | 5.74E-05      | 1.47E-08          |
| 194         | 19        | Surface      | Chromium    | mg/kg        | 4.84E+01   | 6.18E-04         | 4.33E-04      | 6.64E-08          |
| 194         | 19        | Surface      | Nickel      | mg/kg        | 5.84E+01   | 7.46E-04         | 4.18E-04      | 8.02E-08          |
| 194         | 20        | Surface      | Arsenic     | mg/kg        | 1.18E+01   | 1.51E-04         | 6.36E-05      | 1.63E-08          |
| 194         | 20        | Surface      | Barium      | mg/kg        | 3.26E+02   | 4.17E-03         | 2.92E-03      | 4.48E-07          |
| 194         | 20        | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 1.41E-05         | 1.38E-06      | 1.51E-09          |
| 194         | 20        | Surface      | Chromium    | mg/kg        | 5.24E+01   | 6.69E-04         | 4.69E-04      | 7.20E-08          |
| 194         | 20        | Surface      | Cobalt      | mg/kg        | 2.11E+01   | 2.70E-04         | 1.89E-04      | 2.90E-08          |
| 194         | 20        | Surface      | Manganese   | mg/kg        | 2.29E+03   | 2.93E-02         | 1.64E-02      | 3.15E-06          |
| 194         | 20        | Surface      | Mercury     | mg/kg        | 7.28E+00   | 9.31E-05         | 6.52E-05      | 3.00E-04          |
| 194         | 20        | Surface      | Nickel      | mg/kg        | 6.57E+01   | 8.40E-04         | 4.70E-04      | 9.03E-08          |
| 194         | 20        | Surface      | Silver      | mg/kg        | 1.22E+01   | 1.56E-04         | 8.75E-05      | 1.68E-08          |
| 194         | 20        | Surface      | Total PAH   | mg/kg        | 3.10E-02   | 3.96E-07         | 7.21E-07      | 3.16E-09          |
| 194         | 20        | Surface      | Vanadium    | mg/kg        | 3.81E+01   | 4.87E-04         | 1.77E-04      | 5.24E-08          |
| 194         | 21        | Surface      | Antimony    | mg/kg        | 9.30E-01   | 1.19E-05         | 8.32E-06      | 1.28E-09          |
| 194         | 21        | Surface      | Chromium    | mg/kg        | 5.51E+01   | 7.04E-04         | 4.93E-04      | 7.57E-08          |
| 194         | 21        | Surface      | Mercury     | mg/kg        | 6.62E+00   | 8.46E-05         | 5.92E-05      | 2.73E-04          |
| 194         | 21        | Surface      | Nickel      | mg/kg        | 7.01E+01   | 8.97E-04         | 5.02E-04      | 9.64E-08          |
| 194         | 21        | Surface      | Thallium    | mg/kg        | 6.40E-01   | 8.18E-06         | 5.73E-06      | 8.80E-10          |
| 194         | 22        | Surface      | Chromium    | mg/kg        | 4.90E+01   | 6.26E-04         | 4.38E-04      | 6.73E-08          |
| 194         | 22        | Surface      | Manganese   | mg/kg        | 8.19E+02   | 1.05E-02         | 5.86E-03      | 1.13E-06          |
| 194         | 22        | Surface      | PCB, Total  | mg/kg        | 1.09E+01   | 1.40E-04         | 2.74E-04      | 2.55E-05          |
| 194         | 23        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 1.48E-04         | 6.20E-05      | 1.59E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 23        | Surface      | Chromium    | mg/kg        | 6.60E+01   | 8.43E-04         | 5.90E-04      | 9.07E-08          |
| 194         | 23        | Surface      | Iron        | mg/kg        | 1.83E+04   | 2.34E-01         | 1.64E-01      | 2.51E-05          |
| 194         | 23        | Surface      | Nickel      | mg/kg        | 8.77E+01   | 1.12E-03         | 6.28E-04      | 1.21E-07          |
| 194         | 23        | Surface      | Silver      | mg/kg        | 1.15E+01   | 1.47E-04         | 8.22E-05      | 1.58E-08          |
| 194         | 24        | Surface      | Chromium    | mg/kg        | 5.02E+01   | 6.42E-04         | 4.49E-04      | 6.90E-08          |
| 194         | 24        | Surface      | Nickel      | mg/kg        | 7.08E+01   | 9.05E-04         | 5.07E-04      | 9.73E-08          |
| 194         | 24        | Surface      | Total PAH   | mg/kg        | 2.28E-02   | 2.92E-07         | 5.31E-07      | 2.33E-09          |
| 194         | 25        | Surface      | Barium      | mg/kg        | 3.00E+02   | 3.84E-03         | 2.68E-03      | 4.12E-07          |
| 194         | 25        | Surface      | Chromium    | mg/kg        | 6.13E+01   | 7.83E-04         | 5.48E-04      | 8.42E-08          |
| 194         | 25        | Surface      | Manganese   | mg/kg        | 9.96E+02   | 1.27E-02         | 7.13E-03      | 1.37E-06          |
| 194         | 25        | Surface      | Nickel      | mg/kg        | 6.33E+01   | 8.10E-04         | 4.53E-04      | 8.70E-08          |
| 194         | 25        | Surface      | Total PAH   | mg/kg        | 2.06E-02   | 2.63E-07         | 4.79E-07      | 2.10E-09          |
| 194         | 26        | Surface      | Beryllium   | mg/kg        | 7.00E-01   | 8.95E-06         | 8.77E-07      | 9.62E-10          |
| 194         | 26        | Surface      | Chromium    | mg/kg        | 4.18E+01   | 5.35E-04         | 3.74E-04      | 5.75E-08          |
| 194         | 26        | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.31E-04         | 7.35E-05      | 1.41E-08          |
| 194         | 26        | Surface      | Thallium    | mg/kg        | 3.90E-01   | 4.99E-06         | 3.49E-06      | 5.36E-10          |
| 194         | 27        | Surface      | Chromium    | mg/kg        | 5.22E+01   | 6.67E-04         | 4.67E-04      | 7.17E-08          |
| 194         | 27        | Surface      | Nickel      | mg/kg        | 6.55E+01   | 8.37E-04         | 4.69E-04      | 9.00E-08          |
| 194         | 27        | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.29E-04         | 7.25E-05      | 1.39E-08          |
| 194         | 28        | Surface      | Arsenic     | mg/kg        | 1.20E+01   | 1.54E-04         | 6.46E-05      | 1.65E-08          |
| 194         | 28        | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 9.08E-06         | 8.90E-07      | 9.76E-10          |
| 194         | 28        | Surface      | Chromium    | mg/kg        | 6.07E+01   | 7.76E-04         | 5.43E-04      | 8.34E-08          |
| 194         | 28        | Surface      | Manganese   | mg/kg        | 1.14E+03   | 1.45E-02         | 8.15E-03      | 1.56E-06          |
| 194         | 28        | Surface      | Nickel      | mg/kg        | 6.95E+01   | 8.88E-04         | 4.97E-04      | 9.54E-08          |
| 194         | 28        | Surface      | Silver      | mg/kg        | 1.08E+01   | 1.38E-04         | 7.73E-05      | 1.48E-08          |
| 194         | 28        | Surface      | Vanadium    | mg/kg        | 4.06E+01   | 5.19E-04         | 1.89E-04      | 5.58E-08          |
| 194         | 29        | Surface      | Antimony    | mg/kg        | 7.10E-01   | 9.08E-06         | 6.35E-06      | 9.76E-10          |
| 194         | 29        | Surface      | Chromium    | mg/kg        | 5.06E+01   | 6.46E-04         | 4.53E-04      | 6.95E-08          |
| 194         | 29        | Surface      | Nickel      | mg/kg        | 6.51E+01   | 8.32E-04         | 4.66E-04      | 8.95E-08          |
| 194         | 29        | Surface      | Silver      | mg/kg        | 9.77E+00   | 1.25E-04         | 7.00E-05      | 1.34E-08          |
| 194         | 30        | Surface      | Chromium    | mg/kg        | 5.66E+01   | 7.23E-04         | 5.06E-04      | 7.77E-08          |
| 194         | 30        | Surface      | Mercury     | mg/kg        | 8.80E+00   | 1.13E-04         | 7.88E-05      | 3.63E-04          |
| 194         | 30        | Surface      | Nickel      | mg/kg        | 6.99E+01   | 8.93E-04         | 5.00E-04      | 9.60E-08          |
| 194         | 30        | Surface      | Silver      | mg/kg        | 9.76E+00   | 1.25E-04         | 6.99E-05      | 1.34E-08          |
| 196         | 1         | Surface      | Antimony    | mg/kg        | 5.90E-01   | 7.54E-06         | 5.28E-06      | 8.11E-10          |
| 196         | 1         | Surface      | Chromium    | mg/kg        | 1.96E+01   | 2.51E-04         | 1.75E-04      | 2.69E-08          |
| 196         | 1         | Surface      | Nickel      | mg/kg        | 5.56E+02   | 7.11E-03         | 3.98E-03      | 7.64E-07          |
| 196         | 1         | Surface      | Uranium     | mg/kg        | 2.33E+01   | 2.98E-04         | 2.09E-04      | 3.20E-08          |
| 196         | 2         | Surface      | Barium      | mg/kg        | 2.02E+02   | 2.58E-03         | 1.81E-03      | 2.78E-07          |
| 196         | 2         | Surface      | Cadmium     | mg/kg        | 2.53E+00   | 3.23E-05         | 4.53E-07      | 3.48E-09          |
| 196         | 2         | Surface      | Chromium    | mg/kg        | 2.07E+01   | 2.65E-04         | 1.85E-04      | 2.84E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 196         | 2         | Surface      | Nickel      | mg/kg        | 7.36E+01   | 9.41E-04         | 5.27E-04      | 1.01E-07          |
| 196         | 2         | Surface      | PCB, Total  | mg/kg        | 1.51E+00   | 1.93E-05         | 3.78E-05      | 3.52E-06          |
| 196         | 2         | Surface      | Total PAH   | mg/kg        | 6.80E-01   | 8.69E-06         | 1.58E-05      | 6.94E-08          |
| 489         | 1         | Surface      | Chromium    | mg/kg        | 4.16E+01   | 5.32E-04         | 3.73E-04      | 5.72E-08          |
| 489         | 1         | Surface      | Nickel      | mg/kg        | 7.88E+01   | 1.01E-03         | 5.64E-04      | 1.08E-07          |
| 489         | 1         | Surface      | Total PAH   | mg/kg        | 8.22E-02   | 1.05E-06         | 1.91E-06      | 8.38E-09          |
| 531         | 1         | Surface      | Antimony    | mg/kg        | 1.00E+00   | 1.28E-05         | 8.95E-06      | 1.37E-09          |
| 531         | 1         | Surface      | Arsenic     | mg/kg        | 4.68E+01   | 5.99E-04         | 2.51E-04      | 6.43E-08          |
| 531         | 1         | Surface      | Cadmium     | mg/kg        | 3.10E+00   | 3.96E-05         | 5.55E-07      | 4.26E-09          |
| 531         | 1         | Surface      | Chromium    | mg/kg        | 5.05E+01   | 6.45E-04         | 4.52E-04      | 6.93E-08          |
| 531         | 1         | Surface      | Iron        | mg/kg        | 5.68E+04   | 7.27E-01         | 5.09E-01      | 7.81E-05          |
| 531         | 1         | Surface      | Nickel      | mg/kg        | 1.62E+02   | 2.07E-03         | 1.16E-03      | 2.23E-07          |
| 531         | 1         | Surface      | Total PAH   | mg/kg        | 5.34E-02   | 6.82E-07         | 1.24E-06      | 5.44E-09          |
| 531         | 1         | Surface      | Uranium     | mg/kg        | 2.41E+01   | 3.08E-04         | 2.15E-04      | 3.31E-08          |
| 531         | 1         | Surface      | Zinc        | mg/kg        | 2.45E+03   | 3.13E-02         | 2.19E-02      | 3.37E-06          |
| 200         | 1         | Surface      | Antimony    | mg/kg        | 5.60E-01   | 7.16E-06         | 5.01E-06      | 7.70E-10          |
| 200         | 1         | Surface      | Chromium    | mg/kg        | 5.75E+01   | 7.36E-04         | 5.15E-04      | 7.91E-08          |
| 200         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 8.58E-05         | 6.01E-05      | 2.77E-04          |
| 200         | 1         | Surface      | Nickel      | mg/kg        | 1.28E+02   | 1.64E-03         | 9.16E-04      | 1.76E-07          |
| 200         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E+00   | 3.32E-05         | 6.52E-05      | 6.07E-06          |
| 200         | 1         | Surface      | Total PAH   | mg/kg        | 2.84E-02   | 3.63E-07         | 6.61E-07      | 2.90E-09          |
| 200         | 1         | Surface      | Uranium     | mg/kg        | 2.73E+01   | 3.49E-04         | 2.44E-04      | 3.75E-08          |
| 212         | 1         | Surface      | Arsenic     | mg/kg        | 1.44E+01   | 1.84E-04         | 7.74E-05      | 1.98E-08          |
| 212         | 1         | Surface      | Beryllium   | mg/kg        | 8.10E-01   | 1.04E-05         | 1.01E-06      | 1.11E-09          |
| 212         | 1         | Surface      | Chromium    | mg/kg        | 3.58E+01   | 4.58E-04         | 3.20E-04      | 4.92E-08          |
| 212         | 1         | Surface      | Iron        | mg/kg        | 4.14E+04   | 5.29E-01         | 3.71E-01      | 5.69E-05          |
| 212         | 1         | Surface      | Nickel      | mg/kg        | 8.69E+01   | 1.11E-03         | 6.22E-04      | 1.19E-07          |
| 212         | 1         | Surface      | PCB, Total  | mg/kg        | 1.80E-01   | 2.30E-06         | 4.51E-06      | 4.20E-07          |
| 212         | 1         | Surface      | Uranium     | mg/kg        | 2.30E+01   | 2.94E-04         | 2.06E-04      | 3.16E-08          |
| 213         | 1         | Surface      | Antimony    | mg/kg        | 8.50E-01   | 1.09E-05         | 7.61E-06      | 1.17E-09          |
| 213         | 1         | Surface      | Chromium    | mg/kg        | 4.78E+01   | 6.11E-04         | 4.28E-04      | 6.57E-08          |
| 213         | 1         | Surface      | Nickel      | mg/kg        | 6.67E+01   | 8.53E-04         | 4.78E-04      | 9.17E-08          |
| 213         | 1         | Surface      | PCB, Total  | mg/kg        | 7.30E-02   | 9.33E-07         | 1.83E-06      | 1.70E-07          |
| 213         | 1         | Surface      | Silver      | mg/kg        | 1.32E+01   | 1.68E-04         | 9.43E-05      | 1.81E-08          |
| 213         | 1         | Surface      | Total PAH   | mg/kg        | 1.72E-01   | 2.20E-06         | 4.00E-06      | 1.75E-08          |
| 213         | 2         | Surface      | Chromium    | mg/kg        | 4.48E+01   | 5.73E-04         | 4.01E-04      | 6.16E-08          |
| 213         | 2         | Surface      | Nickel      | mg/kg        | 9.10E+01   | 1.16E-03         | 6.51E-04      | 1.25E-07          |
| 213         | 2         | Surface      | Silver      | mg/kg        | 1.13E+01   | 1.44E-04         | 8.06E-05      | 1.55E-08          |
| 214         | 1         | Surface      | Antimony    | mg/kg        | 5.70E-01   | 7.29E-06         | 5.10E-06      | 7.83E-10          |
| 215         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 8.69E-06         | 6.09E-06      | 9.34E-10          |
| 215         | 1         | Surface      | Chromium    | mg/kg        | 5.73E+01   | 7.33E-04         | 5.13E-04      | 7.88E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 215         | 1         | Surface      | Iron        | mg/kg        | 3.87E+04   | 4.95E-01         | 3.46E-01      | 5.32E-05          |
| 215         | 1         | Surface      | Nickel      | mg/kg        | 7.32E+01   | 9.35E-04         | 5.24E-04      | 1.01E-07          |
| 215         | 1         | Surface      | Total PAH   | mg/kg        | 8.09E-02   | 1.03E-06         | 1.88E-06      | 8.25E-09          |
| 216         | 1         | Surface      | Chromium    | mg/kg        | 2.38E+01   | 3.04E-04         | 2.13E-04      | 3.27E-08          |
| 216         | 1         | Surface      | Total PAH   | mg/kg        | 1.49E-01   | 1.91E-06         | 3.47E-06      | 1.52E-08          |
| 217         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 1.10E-03         | 7.67E-04      | 1.18E-07          |
| 217         | 1         | Surface      | Cobalt      | mg/kg        | 1.96E+01   | 2.50E-04         | 1.75E-04      | 2.69E-08          |
| 217         | 1         | Surface      | Manganese   | mg/kg        | 7.70E+02   | 9.84E-03         | 5.51E-03      | 1.06E-06          |
| 217         | 1         | Surface      | Nickel      | mg/kg        | 8.54E+01   | 1.09E-03         | 6.12E-04      | 1.17E-07          |
| 217         | 1         | Surface      | Silver      | mg/kg        | 1.35E+01   | 1.72E-04         | 9.63E-05      | 1.85E-08          |
| 217         | 2         | Surface      | Antimony    | mg/kg        | 1.70E+00   | 2.17E-05         | 1.52E-05      | 2.34E-09          |
| 217         | 2         | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 1.43E-04         | 5.99E-05      | 1.53E-08          |
| 217         | 2         | Surface      | Chromium    | mg/kg        | 1.02E+02   | 1.30E-03         | 9.09E-04      | 1.40E-07          |
| 217         | 2         | Surface      | Cobalt      | mg/kg        | 1.74E+01   | 2.22E-04         | 1.56E-04      | 2.39E-08          |
| 217         | 2         | Surface      | Iron        | mg/kg        | 3.09E+04   | 3.95E-01         | 2.77E-01      | 4.25E-05          |
| 217         | 2         | Surface      | Manganese   | mg/kg        | 8.44E+02   | 1.08E-02         | 6.04E-03      | 1.16E-06          |
| 217         | 2         | Surface      | Mercury     | mg/kg        | 8.59E+00   | 1.10E-04         | 7.69E-05      | 3.54E-04          |
| 217         | 2         | Surface      | Nickel      | mg/kg        | 9.74E+01   | 1.25E-03         | 6.97E-04      | 1.34E-07          |
| 217         | 2         | Surface      | Silver      | mg/kg        | 1.61E+01   | 2.06E-04         | 1.15E-04      | 2.21E-08          |
| 217         | 2         | Surface      | Total PAH   | mg/kg        | 5.05E-01   | 6.46E-06         | 1.18E-05      | 5.15E-08          |
| 221         | 1         | Surface      | Barium      | mg/kg        | 2.21E+02   | 2.83E-03         | 1.98E-03      | 3.04E-07          |
| 221         | 1         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 8.97E-04         | 6.28E-04      | 9.64E-08          |
| 221         | 1         | Surface      | Iron        | mg/kg        | 1.90E+04   | 2.43E-01         | 1.70E-01      | 2.61E-05          |
| 221         | 1         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 1.01E-03         | 5.67E-04      | 1.09E-07          |
| 221         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 6.39E-06         | 1.25E-05      | 1.17E-06          |
| 221         | 1         | Surface      | Total PAH   | mg/kg        | 1.02E+00   | 1.31E-05         | 2.38E-05      | 1.04E-07          |
| 221         | 1         | Surface      | Uranium     | mg/kg        | 1.64E+01   | 2.09E-04         | 1.46E-04      | 2.25E-08          |
| 222         | 1         | Surface      | Chromium    | mg/kg        | 4.73E+01   | 6.05E-04         | 4.23E-04      | 6.50E-08          |
| 222         | 1         | Surface      | Nickel      | mg/kg        | 9.19E+01   | 1.17E-03         | 6.58E-04      | 1.26E-07          |
| 222         | 1         | Surface      | PCB, Total  | mg/kg        | 1.40E+00   | 1.79E-05         | 3.51E-05      | 3.27E-06          |
| 222         | 1         | Surface      | Total PAH   | mg/kg        | 1.77E-01   | 2.27E-06         | 4.12E-06      | 1.81E-08          |
| 222         | 1         | Surface      | Uranium     | mg/kg        | 2.80E+01   | 3.58E-04         | 2.50E-04      | 3.85E-08          |
| 227         | 1         | Surface      | Beryllium   | mg/kg        | 5.52E-01   | 7.06E-06         | 6.92E-07      | 7.59E-10          |
| 227         | 1         | Surface      | Chromium    | mg/kg        | 4.71E+01   | 6.03E-04         | 4.22E-04      | 6.48E-08          |
| 227         | 1         | Surface      | Nickel      | mg/kg        | 2.03E+02   | 2.60E-03         | 1.45E-03      | 2.79E-07          |
| 227         | 1         | Surface      | PCB, Total  | mg/kg        | 4.14E+00   | 5.30E-05         | 1.04E-04      | 9.67E-06          |
| 227         | 1         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 4.32E-06         | 7.86E-06      | 3.45E-08          |
| 227         | 1         | Surface      | Uranium     | mg/kg        | 1.02E+02   | 1.30E-03         | 9.09E-04      | 1.40E-07          |
| 227         | 2         | Surface      | Beryllium   | mg/kg        | 5.32E-01   | 6.80E-06         | 6.67E-07      | 7.31E-10          |
| 227         | 2         | Surface      | Chromium    | mg/kg        | 5.63E+01   | 7.20E-04         | 5.04E-04      | 7.74E-08          |
| 227         | 2         | Surface      | Cobalt      | mg/kg        | 8.99E+00   | 1.15E-04         | 8.04E-05      | 1.23E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
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**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 227         | 2         | Surface      | Mercury     | mg/kg        | 8.41E+00   | 1.08E-04         | 7.53E-05      | 3.47E-04          |
| 227         | 2         | Surface      | Nickel      | mg/kg        | 1.25E+02   | 1.60E-03         | 8.94E-04      | 1.72E-07          |
| 227         | 2         | Surface      | PCB, Total  | mg/kg        | 5.82E+00   | 7.44E-05         | 1.46E-04      | 1.36E-05          |
| 227         | 2         | Surface      | Total PAH   | mg/kg        | 1.16E-01   | 1.48E-06         | 2.69E-06      | 1.18E-08          |
| 227         | 2         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 1.92E-04         | 1.35E-04      | 2.07E-08          |
| 228         | 1         | Surface      | Antimony    | mg/kg        | 6.30E-01   | 8.05E-06         | 5.64E-06      | 8.66E-10          |
| 228         | 1         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 4.99E-05         | 6.98E-07      | 5.36E-09          |
| 228         | 1         | Surface      | Chromium    | mg/kg        | 1.89E+02   | 2.42E-03         | 1.69E-03      | 2.60E-07          |
| 228         | 1         | Surface      | Mercury     | mg/kg        | 9.37E+00   | 1.20E-04         | 8.39E-05      | 3.86E-04          |
| 228         | 1         | Surface      | Nickel      | mg/kg        | 7.92E+01   | 1.01E-03         | 5.67E-04      | 1.09E-07          |
| 228         | 1         | Surface      | Silver      | mg/kg        | 1.16E+01   | 1.49E-04         | 8.33E-05      | 1.60E-08          |
| 228         | 1         | Surface      | Total PAH   | mg/kg        | 6.69E-02   | 8.55E-07         | 1.56E-06      | 6.82E-09          |
| 228         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 1.93E-04         | 1.35E-04      | 2.08E-08          |
| 76          | 1         | Surface      | Barium      | mg/kg        | 2.69E+02   | 3.44E-03         | 2.41E-03      | 3.70E-07          |
| 76          | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 3.32E-06         | 6.52E-06      | 6.07E-07          |
| 76          | 1         | Surface      | Total PAH   | mg/kg        | 1.76E+00   | 2.25E-05         | 4.09E-05      | 1.79E-07          |
| 165         | 1         | Surface      | Antimony    | mg/kg        | 2.20E+00   | 2.81E-05         | 1.97E-05      | 3.02E-09          |
| 165         | 1         | Surface      | Arsenic     | mg/kg        | 6.35E+01   | 8.12E-04         | 3.41E-04      | 8.73E-08          |
| 165         | 1         | Surface      | Barium      | mg/kg        | 5.84E+02   | 7.47E-03         | 5.23E-03      | 8.03E-07          |
| 165         | 1         | Surface      | Beryllium   | mg/kg        | 6.82E-01   | 8.72E-06         | 8.55E-07      | 9.37E-10          |
| 165         | 1         | Surface      | Chromium    | mg/kg        | 3.74E+01   | 4.78E-04         | 3.35E-04      | 5.14E-08          |
| 165         | 1         | Surface      | Mercury     | mg/kg        | 3.78E-01   | 4.83E-06         | 3.38E-06      | 1.56E-05          |
| 165         | 1         | Surface      | Naphthalene | mg/kg        | 1.61E+00   | 2.06E-05         | 7.21E-05      | 7.43E-05          |
| 165         | 1         | Surface      | Nickel      | mg/kg        | 3.47E+01   | 4.44E-04         | 2.48E-04      | 4.77E-08          |
| 165         | 1         | Surface      | PCB, Total  | mg/kg        | 8.27E+00   | 1.06E-04         | 2.07E-04      | 1.93E-05          |
| 165         | 1         | Surface      | Silver      | mg/kg        | 3.09E+01   | 3.95E-04         | 2.21E-04      | 4.25E-08          |
| 165         | 1         | Surface      | Total PAH   | mg/kg        | 1.87E+00   | 2.39E-05         | 4.35E-05      | 1.91E-07          |
| 165         | 1         | Surface      | Uranium     | mg/kg        | 1.08E+02   | 1.37E-03         | 9.62E-04      | 1.48E-07          |
| 158         | 1         | Surface      | Antimony    | mg/kg        | 5.23E-01   | 6.69E-06         | 4.68E-06      | 7.19E-10          |
| 158         | 1         | Surface      | Arsenic     | mg/kg        | 1.01E+01   | 1.29E-04         | 5.43E-05      | 1.39E-08          |
| 158         | 1         | Surface      | Barium      | mg/kg        | 2.19E+02   | 2.80E-03         | 1.96E-03      | 3.01E-07          |
| 158         | 1         | Surface      | Chromium    | mg/kg        | 6.07E+01   | 7.77E-04         | 5.44E-04      | 8.35E-08          |
| 158         | 1         | Surface      | Cobalt      | mg/kg        | 1.62E+01   | 2.07E-04         | 1.45E-04      | 2.23E-08          |
| 158         | 1         | Surface      | Manganese   | mg/kg        | 9.91E+02   | 1.27E-02         | 7.09E-03      | 1.36E-06          |
| 158         | 1         | Surface      | Mercury     | mg/kg        | 1.05E+01   | 1.34E-04         | 9.36E-05      | 4.31E-04          |
| 158         | 1         | Surface      | Nickel      | mg/kg        | 7.28E+01   | 9.31E-04         | 5.21E-04      | 1.00E-07          |
| 158         | 1         | Surface      | Thallium    | mg/kg        | 3.12E-01   | 3.99E-06         | 2.79E-06      | 4.29E-10          |
| 158         | 1         | Surface      | Total PAH   | mg/kg        | 3.69E-01   | 4.72E-06         | 8.59E-06      | 3.76E-08          |
| 158         | 1         | Surface      | Uranium     | mg/kg        | 2.03E+01   | 2.60E-04         | 1.82E-04      | 2.79E-08          |
| 169         | 1         | Surface      | Aluminum    | mg/kg        | 1.42E+04   | 1.82E-01         | 1.27E-01      | 1.95E-05          |
| 169         | 1         | Surface      | Antimony    | mg/kg        | 1.30E+00   | 1.66E-05         | 1.16E-05      | 1.79E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 169         | 1         | Surface      | Arsenic     | mg/kg        | 2.03E+01   | 2.60E-04         | 1.09E-04      | 2.79E-08          |
| 169         | 1         | Surface      | Beryllium   | mg/kg        | 8.00E-01   | 1.02E-05         | 1.00E-06      | 1.10E-09          |
| 169         | 1         | Surface      | Chromium    | mg/kg        | 2.15E+02   | 2.75E-03         | 1.92E-03      | 2.95E-07          |
| 169         | 1         | Surface      | Copper      | mg/kg        | 3.74E+02   | 4.79E-03         | 3.35E-03      | 5.14E-07          |
| 169         | 1         | Surface      | Iron        | mg/kg        | 4.16E+04   | 5.31E-01         | 3.72E-01      | 5.71E-05          |
| 169         | 1         | Surface      | Mercury     | mg/kg        | 7.87E+00   | 1.01E-04         | 7.04E-05      | 3.24E-04          |
| 169         | 1         | Surface      | Nickel      | mg/kg        | 5.49E+02   | 7.01E-03         | 3.93E-03      | 7.54E-07          |
| 169         | 1         | Surface      | PCB, Total  | mg/kg        | 1.00E+01   | 1.28E-04         | 2.51E-04      | 2.33E-05          |
| 169         | 1         | Surface      | Thallium    | mg/kg        | 4.60E-01   | 5.88E-06         | 4.12E-06      | 6.32E-10          |
| 169         | 1         | Surface      | Total PAH   | mg/kg        | 4.59E+00   | 5.86E-05         | 1.07E-04      | 4.68E-07          |
| 169         | 1         | Surface      | Uranium     | mg/kg        | 5.03E+01   | 6.43E-04         | 4.50E-04      | 6.91E-08          |
| 19          | 1         | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 1.41E-05         | 1.38E-06      | 1.51E-09          |
| 19          | 1         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 1.53E-05         | 2.15E-07      | 1.65E-09          |
| 19          | 1         | Surface      | Thallium    | mg/kg        | 9.80E-01   | 1.25E-05         | 8.77E-06      | 1.35E-09          |
| 19          | 1         | Surface      | Total PAH   | mg/kg        | 5.23E+00   | 6.68E-05         | 1.22E-04      | 5.33E-07          |
| 138         | 1         | Surface      | Antimony    | mg/kg        | 5.39E+00   | 6.90E-05         | 4.83E-05      | 7.41E-09          |
| 138         | 1         | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 1.36E-04         | 5.70E-05      | 1.46E-08          |
| 138         | 1         | Surface      | Cadmium     | mg/kg        | 5.42E+00   | 6.93E-05         | 9.70E-07      | 7.45E-09          |
| 138         | 1         | Surface      | Chromium    | mg/kg        | 5.39E+01   | 6.88E-04         | 4.82E-04      | 7.40E-08          |
| 138         | 1         | Surface      | Mercury     | mg/kg        | 1.30E+01   | 1.66E-04         | 1.16E-04      | 5.36E-04          |
| 138         | 1         | Surface      | Nickel      | mg/kg        | 7.04E+01   | 9.00E-04         | 5.04E-04      | 9.67E-08          |
| 138         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 6.39E-06         | 1.25E-05      | 1.17E-06          |
| 138         | 1         | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.29E-04         | 7.22E-05      | 1.39E-08          |
| 138         | 1         | Surface      | Total PAH   | mg/kg        | 9.74E-02   | 1.25E-06         | 2.27E-06      | 9.94E-09          |
| 138         | 2         | Surface      | Nickel      | mg/kg        | 7.99E+01   | 1.02E-03         | 5.72E-04      | 1.10E-07          |
| 138         | 2         | Surface      | PCB, Total  | mg/kg        | 9.20E-02   | 1.18E-06         | 2.31E-06      | 2.15E-07          |
| 138         | 2         | Surface      | Silver      | mg/kg        | 1.04E+01   | 1.33E-04         | 7.47E-05      | 1.43E-08          |
| 138         | 2         | Surface      | Total PAH   | mg/kg        | 3.84E-02   | 4.91E-07         | 8.94E-07      | 3.92E-09          |
| 180         | 1         | Surface      | Antimony    | mg/kg        | 5.80E-01   | 7.42E-06         | 5.19E-06      | 7.97E-10          |
| 180         | 1         | Surface      | Arsenic     | mg/kg        | 7.48E+01   | 9.56E-04         | 4.02E-04      | 1.03E-07          |
| 180         | 1         | Surface      | Chromium    | mg/kg        | 5.54E+01   | 7.09E-04         | 4.96E-04      | 7.62E-08          |
| 180         | 1         | Surface      | Mercury     | mg/kg        | 8.28E+00   | 1.06E-04         | 7.41E-05      | 3.41E-04          |
| 180         | 1         | Surface      | Nickel      | mg/kg        | 8.77E+01   | 1.12E-03         | 6.28E-04      | 1.20E-07          |
| 180         | 2         | Surface      | Antimony    | mg/kg        | 4.58E-01   | 5.86E-06         | 4.10E-06      | 6.29E-10          |
| 180         | 2         | Surface      | Arsenic     | mg/kg        | 1.27E+01   | 1.62E-04         | 6.79E-05      | 1.74E-08          |
| 180         | 2         | Surface      | Chromium    | mg/kg        | 4.46E+01   | 5.71E-04         | 3.99E-04      | 6.13E-08          |
| 180         | 2         | Surface      | Nickel      | mg/kg        | 8.42E+01   | 1.08E-03         | 6.03E-04      | 1.16E-07          |
| 180         | 2         | Surface      | Total PAH   | mg/kg        | 9.19E-02   | 1.17E-06         | 2.14E-06      | 9.37E-09          |
| 180         | 3         | Surface      | Arsenic     | mg/kg        | 1.34E+01   | 1.71E-04         | 7.17E-05      | 1.83E-08          |
| 180         | 3         | Surface      | Chromium    | mg/kg        | 4.69E+01   | 6.00E-04         | 4.20E-04      | 6.45E-08          |
| 180         | 3         | Surface      | Nickel      | mg/kg        | 6.77E+01   | 8.66E-04         | 4.85E-04      | 9.30E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 180         | 3         | Surface      | Silver      | mg/kg        | 1.14E+01   | 1.46E-04         | 8.16E-05      | 1.57E-08          |
| 180         | 4         | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 1.47E-04         | 6.19E-05      | 1.58E-08          |
| 180         | 4         | Surface      | Barium      | mg/kg        | 2.13E+02   | 2.72E-03         | 1.91E-03      | 2.93E-07          |
| 180         | 4         | Surface      | Beryllium   | mg/kg        | 1.60E+00   | 2.05E-05         | 2.00E-06      | 2.20E-09          |
| 180         | 4         | Surface      | Chromium    | mg/kg        | 6.00E+01   | 7.67E-04         | 5.37E-04      | 8.25E-08          |
| 180         | 4         | Surface      | Iron        | mg/kg        | 1.54E+04   | 1.97E-01         | 1.38E-01      | 2.11E-05          |
| 180         | 4         | Surface      | Manganese   | mg/kg        | 7.09E+02   | 9.06E-03         | 5.08E-03      | 9.74E-07          |
| 180         | 4         | Surface      | Nickel      | mg/kg        | 6.46E+01   | 8.26E-04         | 4.63E-04      | 8.88E-08          |
| 180         | 4         | Surface      | Silver      | mg/kg        | 9.68E+00   | 1.24E-04         | 6.93E-05      | 1.33E-08          |
| 180         | 4         | Surface      | Total PAH   | mg/kg        | 2.15E-02   | 2.75E-07         | 5.00E-07      | 2.19E-09          |
| 180         | 4         | Surface      | Vanadium    | mg/kg        | 4.85E+01   | 6.20E-04         | 2.26E-04      | 6.66E-08          |
| 181         | 1         | Surface      | Chromium    | mg/kg        | 2.29E+01   | 2.92E-04         | 2.05E-04      | 3.14E-08          |
| 181         | 1         | Surface      | Thallium    | mg/kg        | 3.50E+00   | 4.47E-05         | 3.13E-05      | 4.81E-09          |
| 181         | 1         | Surface      | Total PAH   | mg/kg        | 3.43E-02   | 4.39E-07         | 7.98E-07      | 3.50E-09          |
| 195         | 1         | Surface      | Chromium    | mg/kg        | 6.33E+01   | 8.09E-04         | 5.66E-04      | 8.69E-08          |
| 195         | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 8.98E-04         | 5.03E-04      | 9.65E-08          |
| 195         | 1         | Surface      | Silver      | mg/kg        | 9.37E+00   | 1.20E-04         | 6.71E-05      | 1.29E-08          |
| 195         | 2         | Surface      | Chromium    | mg/kg        | 4.52E+01   | 5.78E-04         | 4.05E-04      | 6.21E-08          |
| 195         | 2         | Surface      | Silver      | mg/kg        | 9.48E+00   | 1.21E-04         | 6.79E-05      | 1.30E-08          |
| 195         | 2         | Surface      | Total PAH   | mg/kg        | 2.68E-02   | 3.43E-07         | 6.24E-07      | 2.73E-09          |
| 195         | 3         | Surface      | Chromium    | mg/kg        | 5.03E+01   | 6.43E-04         | 4.50E-04      | 6.91E-08          |
| 195         | 3         | Surface      | Nickel      | mg/kg        | 5.22E+01   | 6.67E-04         | 3.73E-04      | 7.17E-08          |
| 195         | 3         | Surface      | Total PAH   | mg/kg        | 4.06E-02   | 5.19E-07         | 9.45E-07      | 4.14E-09          |
| 195         | 4         | Surface      | Chromium    | mg/kg        | 5.29E+01   | 6.76E-04         | 4.73E-04      | 7.27E-08          |
| 195         | 4         | Surface      | Nickel      | mg/kg        | 6.23E+01   | 7.96E-04         | 4.46E-04      | 8.56E-08          |
| 195         | 5         | Surface      | Chromium    | mg/kg        | 5.74E+01   | 7.34E-04         | 5.14E-04      | 7.89E-08          |
| 195         | 5         | Surface      | Nickel      | mg/kg        | 8.11E+01   | 1.04E-03         | 5.81E-04      | 1.11E-07          |
| 195         | 5         | Surface      | Total PAH   | mg/kg        | 2.40E-02   | 3.07E-07         | 5.58E-07      | 2.45E-09          |
| 195         | 6         | Surface      | Chromium    | mg/kg        | 4.45E+01   | 5.69E-04         | 3.99E-04      | 6.12E-08          |
| 195         | 6         | Surface      | Nickel      | mg/kg        | 8.71E+01   | 1.11E-03         | 6.24E-04      | 1.20E-07          |
| 195         | 6         | Surface      | Total PAH   | mg/kg        | 2.48E-01   | 3.17E-06         | 5.76E-06      | 2.53E-08          |
| 195         | 7         | Surface      | Chromium    | mg/kg        | 4.93E+01   | 6.30E-04         | 4.41E-04      | 6.77E-08          |
| 195         | 7         | Surface      | Silver      | mg/kg        | 8.06E+00   | 1.03E-04         | 5.77E-05      | 1.11E-08          |
| 195         | 8         | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 1.48E-04         | 6.21E-05      | 1.59E-08          |
| 195         | 8         | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 9.46E-06         | 9.27E-07      | 1.02E-09          |
| 195         | 8         | Surface      | Chromium    | mg/kg        | 6.79E+01   | 8.69E-04         | 6.08E-04      | 9.34E-08          |
| 195         | 8         | Surface      | Cobalt      | mg/kg        | 1.82E+01   | 2.33E-04         | 1.63E-04      | 2.50E-08          |
| 195         | 8         | Surface      | Nickel      | mg/kg        | 7.01E+01   | 8.96E-04         | 5.02E-04      | 9.63E-08          |
| 195         | 8         | Surface      | Total PAH   | mg/kg        | 2.16E-01   | 2.76E-06         | 5.02E-06      | 2.20E-08          |
| 195         | 8         | Surface      | Vanadium    | mg/kg        | 4.04E+01   | 5.17E-04         | 1.88E-04      | 5.55E-08          |
| 195         | 9         | Surface      | Chromium    | mg/kg        | 6.08E+01   | 7.77E-04         | 5.44E-04      | 8.36E-08          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 195         | 9         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 1.01E-03         | 5.68E-04      | 1.09E-07          |
| 195         | 10        | Surface      | Chromium    | mg/kg        | 4.51E+01   | 5.76E-04         | 4.03E-04      | 6.19E-08          |
| 195         | 10        | Surface      | Nickel      | mg/kg        | 7.40E+01   | 9.46E-04         | 5.30E-04      | 1.02E-07          |
| 195         | 10        | Surface      | Silver      | mg/kg        | 1.31E+01   | 1.68E-04         | 9.39E-05      | 1.80E-08          |
| 195         | 11        | Surface      | Aluminum    | mg/kg        | 2.81E+04   | 3.59E-01         | 2.51E-01      | 3.86E-05          |
| 195         | 11        | Surface      | Arsenic     | mg/kg        | 1.35E+01   | 1.72E-04         | 7.23E-05      | 1.85E-08          |
| 195         | 11        | Surface      | Barium      | mg/kg        | 4.53E+02   | 5.79E-03         | 4.05E-03      | 6.23E-07          |
| 195         | 11        | Surface      | Chromium    | mg/kg        | 5.05E+01   | 6.46E-04         | 4.52E-04      | 6.94E-08          |
| 195         | 11        | Surface      | Cobalt      | mg/kg        | 2.77E+01   | 3.54E-04         | 2.48E-04      | 3.81E-08          |
| 195         | 11        | Surface      | Iron        | mg/kg        | 1.97E+04   | 2.52E-01         | 1.76E-01      | 2.71E-05          |
| 195         | 11        | Surface      | Nickel      | mg/kg        | 6.77E+01   | 8.65E-04         | 4.85E-04      | 9.30E-08          |
| 195         | 11        | Surface      | Thallium    | mg/kg        | 6.60E-01   | 8.44E-06         | 5.91E-06      | 9.07E-10          |
| 195         | 11        | Surface      | Vanadium    | mg/kg        | 7.97E+01   | 1.02E-03         | 3.71E-04      | 1.10E-07          |
| 195         | 12        | Surface      | Beryllium   | mg/kg        | 7.50E-01   | 9.59E-06         | 9.40E-07      | 1.03E-09          |
| 195         | 12        | Surface      | Chromium    | mg/kg        | 7.04E+01   | 9.00E-04         | 6.30E-04      | 9.67E-08          |
| 195         | 12        | Surface      | Nickel      | mg/kg        | 6.78E+01   | 8.66E-04         | 4.85E-04      | 9.31E-08          |
| 195         | 13        | Surface      | Chromium    | mg/kg        | 6.55E+01   | 8.38E-04         | 5.86E-04      | 9.00E-08          |
| 195         | 13        | Surface      | Nickel      | mg/kg        | 6.91E+01   | 8.83E-04         | 4.95E-04      | 9.49E-08          |
| 195         | 14        | Surface      | Chromium    | mg/kg        | 5.94E+01   | 7.60E-04         | 5.32E-04      | 8.17E-08          |
| 195         | 14        | Surface      | Nickel      | mg/kg        | 7.04E+01   | 9.00E-04         | 5.04E-04      | 9.67E-08          |
| 195         | 15        | Surface      | Chromium    | mg/kg        | 4.82E+01   | 6.16E-04         | 4.31E-04      | 6.62E-08          |
| 195         | 16        | Surface      | Chromium    | mg/kg        | 4.45E+01   | 5.68E-04         | 3.98E-04      | 6.11E-08          |
| 195         | 16        | Surface      | Nickel      | mg/kg        | 8.16E+01   | 1.04E-03         | 5.84E-04      | 1.12E-07          |
| 195         | 17        | Surface      | Chromium    | mg/kg        | 8.22E+01   | 1.05E-03         | 7.35E-04      | 1.13E-07          |
| 195         | 17        | Surface      | Mercury     | mg/kg        | 4.17E-01   | 5.33E-06         | 3.73E-06      | 1.72E-05          |
| 195         | 17        | Surface      | Nickel      | mg/kg        | 5.93E+01   | 7.59E-04         | 4.25E-04      | 8.15E-08          |
| 195         | 17        | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 9.46E-06         | 1.85E-05      | 1.73E-06          |
| 195         | 17        | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.30E-04         | 7.26E-05      | 1.39E-08          |
| 195         | 17        | Surface      | Thallium    | mg/kg        | 5.40E-01   | 6.90E-06         | 4.83E-06      | 7.42E-10          |
| 195         | 17        | Surface      | Total PAH   | mg/kg        | 3.16E-01   | 4.04E-06         | 7.35E-06      | 3.22E-08          |
| 492         | 1         | Surface      | Arsenic     | mg/kg        | 1.47E+01   | 1.88E-04         | 7.89E-05      | 2.02E-08          |
| 492         | 1         | Surface      | Beryllium   | mg/kg        | 1.04E+01   | 1.33E-04         | 1.30E-05      | 1.43E-08          |
| 492         | 1         | Surface      | Cadmium     | mg/kg        | 3.14E+00   | 4.01E-05         | 5.62E-07      | 4.32E-09          |
| 492         | 1         | Surface      | Chromium    | mg/kg        | 1.04E+03   | 1.33E-02         | 9.31E-03      | 1.43E-06          |
| 492         | 1         | Surface      | PCB, Total  | mg/kg        | 4.41E+01   | 5.64E-04         | 1.11E-03      | 1.03E-04          |
| 492         | 1         | Surface      | Uranium     | mg/kg        | 1.77E+03   | 2.26E-02         | 1.58E-02      | 2.43E-06          |
| 492         | 1         | Surface      | Vanadium    | mg/kg        | 4.32E+01   | 5.52E-04         | 2.01E-04      | 5.94E-08          |
| 493         | 1         | Surface      | Aluminum    | mg/kg        | 1.44E+04   | 1.84E-01         | 1.29E-01      | 1.98E-05          |
| 493         | 1         | Surface      | Barium      | mg/kg        | 4.04E+02   | 5.17E-03         | 3.62E-03      | 5.55E-07          |
| 493         | 1         | Surface      | Beryllium   | mg/kg        | 9.91E-01   | 1.27E-05         | 1.24E-06      | 1.36E-09          |
| 493         | 1         | Surface      | Chromium    | mg/kg        | 6.61E+01   | 8.45E-04         | 5.92E-04      | 9.08E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 493         | 1         | Surface      | Cobalt      | mg/kg        | 3.79E+01   | 4.85E-04         | 3.39E-04      | 5.21E-08          |
| 493         | 1         | Surface      | Manganese   | mg/kg        | 3.55E+03   | 4.54E-02         | 2.54E-02      | 4.88E-06          |
| 493         | 1         | Surface      | Mercury     | mg/kg        | 2.60E-01   | 3.32E-06         | 2.33E-06      | 1.07E-05          |
| 493         | 1         | Surface      | Nickel      | mg/kg        | 2.13E+02   | 2.72E-03         | 1.53E-03      | 2.93E-07          |
| 493         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 3.32E-06         | 6.52E-06      | 6.07E-07          |
| 493         | 1         | Surface      | Total PAH   | mg/kg        | 5.00E-01   | 6.39E-06         | 1.16E-05      | 5.10E-08          |
| 493         | 1         | Surface      | Vanadium    | mg/kg        | 4.05E+01   | 5.18E-04         | 1.88E-04      | 5.57E-08          |
| 517         | 1         | Surface      | Beryllium   | mg/kg        | 7.39E-01   | 9.45E-06         | 9.26E-07      | 1.02E-09          |
| 517         | 1         | Surface      | Chromium    | mg/kg        | 4.91E+01   | 6.28E-04         | 4.39E-04      | 6.75E-08          |
| 517         | 1         | Surface      | Nickel      | mg/kg        | 1.72E+02   | 2.20E-03         | 1.23E-03      | 2.36E-07          |
| 517         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 6.39E-06         | 1.25E-05      | 1.17E-06          |
| 541         | 1         | Surface      | Aluminum    | mg/kg        | 1.43E+04   | 1.83E-01         | 1.28E-01      | 1.96E-05          |
| 541         | 1         | Surface      | Barium      | mg/kg        | 1.28E+02   | 1.64E-03         | 1.15E-03      | 1.76E-07          |
| 541         | 1         | Surface      | Beryllium   | mg/kg        | 6.98E-01   | 8.92E-06         | 8.75E-07      | 9.59E-10          |
| 541         | 1         | Surface      | Cadmium     | mg/kg        | 1.68E+00   | 2.15E-05         | 3.01E-07      | 2.31E-09          |
| 541         | 1         | Surface      | Chromium    | mg/kg        | 8.24E+02   | 1.05E-02         | 7.38E-03      | 1.13E-06          |
| 541         | 1         | Surface      | Iron        | mg/kg        | 1.60E+04   | 2.04E-01         | 1.43E-01      | 2.19E-05          |
| 541         | 1         | Surface      | Mercury     | mg/kg        | 9.81E-02   | 1.25E-06         | 8.78E-07      | 4.04E-06          |
| 541         | 1         | Surface      | Naphthalene | mg/kg        | 6.55E-01   | 8.37E-06         | 2.93E-05      | 3.02E-05          |
| 541         | 1         | Surface      | Nickel      | mg/kg        | 1.52E+01   | 1.95E-04         | 1.09E-04      | 2.09E-08          |
| 541         | 1         | Surface      | PCB, Total  | mg/kg        | 6.06E+01   | 7.75E-04         | 1.52E-03      | 1.41E-04          |
| 541         | 1         | Surface      | Total PAH   | mg/kg        | 2.33E+00   | 2.98E-05         | 5.42E-05      | 2.38E-07          |
| 541         | 1         | Surface      | Uranium     | mg/kg        | 6.38E+03   | 8.16E-02         | 5.71E-02      | 8.77E-06          |
| 541         | 1         | Surface      | Vanadium    | mg/kg        | 3.04E+01   | 3.89E-04         | 1.42E-04      | 4.18E-08          |
| 561         | 1         | Surface      | Antimony    | mg/kg        | 9.36E-01   | 1.20E-05         | 8.38E-06      | 1.29E-09          |
| 561         | 1         | Surface      | Arsenic     | mg/kg        | 1.66E+01   | 2.12E-04         | 8.89E-05      | 2.27E-08          |
| 561         | 1         | Surface      | Barium      | mg/kg        | 1.40E+02   | 1.79E-03         | 1.25E-03      | 1.93E-07          |
| 561         | 1         | Surface      | Beryllium   | mg/kg        | 6.85E-01   | 8.76E-06         | 8.58E-07      | 9.41E-10          |
| 561         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 1.10E-03         | 7.68E-04      | 1.18E-07          |
| 561         | 1         | Surface      | Cobalt      | mg/kg        | 1.07E+01   | 1.37E-04         | 9.57E-05      | 1.47E-08          |
| 561         | 1         | Surface      | Iron        | mg/kg        | 2.05E+04   | 2.62E-01         | 1.83E-01      | 2.81E-05          |
| 561         | 1         | Surface      | Manganese   | mg/kg        | 1.61E+03   | 2.06E-02         | 1.15E-02      | 2.21E-06          |
| 561         | 1         | Surface      | PCB, Total  | mg/kg        | 1.04E+00   | 1.33E-05         | 2.61E-05      | 2.43E-06          |
| 561         | 1         | Surface      | Thallium    | mg/kg        | 3.33E-01   | 4.26E-06         | 2.98E-06      | 4.58E-10          |
| 561         | 1         | Surface      | Total PAH   | mg/kg        | 3.94E-01   | 5.04E-06         | 9.17E-06      | 4.02E-08          |
| 561         | 1         | Surface      | Uranium     | mg/kg        | 2.65E+02   | 3.39E-03         | 2.37E-03      | 3.64E-07          |
| 561         | 1         | Surface      | Vanadium    | mg/kg        | 3.76E+01   | 4.81E-04         | 1.75E-04      | 5.17E-08          |
| 561         | 2         | Surface      | Antimony    | mg/kg        | 5.33E+00   | 6.82E-05         | 4.77E-05      | 7.33E-09          |
| 561         | 2         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 1.66E-04         | 6.99E-05      | 1.79E-08          |
| 561         | 2         | Surface      | Beryllium   | mg/kg        | 6.34E-01   | 8.11E-06         | 7.94E-07      | 8.71E-10          |
| 561         | 2         | Surface      | Cadmium     | mg/kg        | 4.13E-01   | 5.28E-06         | 7.39E-08      | 5.68E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 561         | 2         | Surface      | Chromium    | mg/kg        | 2.88E+02   | 3.68E-03         | 2.58E-03      | 3.96E-07          |
| 561         | 2         | Surface      | Cobalt      | mg/kg        | 1.14E+01   | 1.46E-04         | 1.02E-04      | 1.57E-08          |
| 561         | 2         | Surface      | Manganese   | mg/kg        | 1.12E+03   | 1.43E-02         | 7.98E-03      | 1.53E-06          |
| 561         | 2         | Surface      | PCB, Total  | mg/kg        | 1.64E+01   | 2.10E-04         | 4.11E-04      | 3.83E-05          |
| 561         | 2         | Surface      | Thallium    | mg/kg        | 4.09E-01   | 5.23E-06         | 3.66E-06      | 5.62E-10          |
| 561         | 2         | Surface      | Total PAH   | mg/kg        | 2.43E+00   | 3.11E-05         | 5.65E-05      | 2.48E-07          |
| 561         | 2         | Surface      | Uranium     | mg/kg        | 1.38E+03   | 1.77E-02         | 1.24E-02      | 1.90E-06          |
| 561         | 2         | Surface      | Vanadium    | mg/kg        | 3.46E+01   | 4.42E-04         | 1.61E-04      | 4.75E-08          |
| 562         | 1         | Surface      | Uranium     | mg/kg        | 8.73E+01   | 1.12E-03         | 7.81E-04      | 1.20E-07          |
| 562         | 2         | Surface      | PCB, Total  | mg/kg        | 1.58E+00   | 2.02E-05         | 3.96E-05      | 3.69E-06          |
| 562         | 3         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 4.88E-04         | 3.42E-04      | 5.24E-08          |
| 562         | 3         | Surface      | PCB, Total  | mg/kg        | 2.40E-01   | 3.07E-06         | 6.01E-06      | 5.60E-07          |
| 562         | 3         | Surface      | Total PAH   | mg/kg        | 2.20E-01   | 2.81E-06         | 5.12E-06      | 2.24E-08          |
| 562         | 3         | Surface      | Uranium     | mg/kg        | 5.89E+01   | 7.53E-04         | 5.27E-04      | 8.09E-08          |
| 562         | 4         | Surface      | Chromium    | mg/kg        | 4.67E+01   | 5.97E-04         | 4.18E-04      | 6.41E-08          |
| 562         | 4         | Surface      | Uranium     | mg/kg        | 2.10E+01   | 2.68E-04         | 1.88E-04      | 2.88E-08          |
| 562         | 5         | Surface      | Chromium    | mg/kg        | 1.53E+02   | 1.96E-03         | 1.37E-03      | 2.10E-07          |
| 562         | 5         | Surface      | PCB, Total  | mg/kg        | 9.50E-01   | 1.21E-05         | 2.38E-05      | 2.22E-06          |
| 562         | 5         | Surface      | Total PAH   | mg/kg        | 7.05E-02   | 9.01E-07         | 1.64E-06      | 7.19E-09          |
| 562         | 5         | Surface      | Uranium     | mg/kg        | 2.08E+02   | 2.66E-03         | 1.86E-03      | 2.86E-07          |
| 563         | 1         | Surface      | Cadmium     | mg/kg        | 8.96E-01   | 1.15E-05         | 1.60E-07      | 1.23E-09          |
| 563         | 1         | Surface      | Chromium    | mg/kg        | 2.85E+02   | 3.64E-03         | 2.55E-03      | 3.92E-07          |
| 563         | 1         | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 9.46E-06         | 1.85E-05      | 1.73E-06          |
| 563         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 1.93E-04         | 1.35E-04      | 2.07E-08          |
| 564         | 1         | Surface      | Arsenic     | mg/kg        | 4.30E+01   | 5.50E-04         | 2.31E-04      | 5.91E-08          |
| 564         | 1         | Surface      | Beryllium   | mg/kg        | 2.12E+00   | 2.71E-05         | 2.66E-06      | 2.91E-09          |
| 564         | 1         | Surface      | Cadmium     | mg/kg        | 1.96E+00   | 2.51E-05         | 3.51E-07      | 2.69E-09          |
| 564         | 1         | Surface      | Chromium    | mg/kg        | 7.49E+01   | 9.58E-04         | 6.71E-04      | 1.03E-07          |
| 564         | 1         | Surface      | Iron        | mg/kg        | 3.66E+04   | 4.68E-01         | 3.28E-01      | 5.03E-05          |
| 564         | 1         | Surface      | Mercury     | mg/kg        | 2.30E-01   | 2.94E-06         | 2.06E-06      | 9.48E-06          |
| 564         | 1         | Surface      | Nickel      | mg/kg        | 2.24E+01   | 2.86E-04         | 1.60E-04      | 3.08E-08          |
| 564         | 1         | Surface      | PCB, Total  | mg/kg        | 1.93E+00   | 2.47E-05         | 4.84E-05      | 4.50E-06          |
| 564         | 1         | Surface      | Thallium    | mg/kg        | 2.36E+00   | 3.02E-05         | 2.11E-05      | 3.24E-09          |
| 564         | 1         | Surface      | Uranium     | mg/kg        | 5.83E+01   | 7.45E-04         | 5.22E-04      | 8.01E-08          |
| 564         | 1         | Surface      | Vanadium    | mg/kg        | 8.06E+01   | 1.03E-03         | 3.75E-04      | 1.11E-07          |
| 567         | 3         | Surface      | Chromium    | mg/kg        | 3.79E+01   | 4.85E-04         | 3.39E-04      | 5.21E-08          |
| 567         | 4         | Surface      | Aluminum    | mg/kg        | 1.25E+04   | 1.60E-01         | 1.12E-01      | 1.72E-05          |
| 567         | 4         | Surface      | Chromium    | mg/kg        | 1.63E+01   | 2.08E-04         | 1.46E-04      | 2.24E-08          |
| 14          | 1         | Surface      | Arsenic     | mg/kg        | 1.10E+01   | 1.40E-04         | 5.90E-05      | 1.51E-08          |
| 14          | 1         | Surface      | Chromium    | mg/kg        | 6.36E+01   | 8.13E-04         | 5.69E-04      | 8.74E-08          |
| 14          | 1         | Surface      | Iron        | mg/kg        | 1.89E+04   | 2.41E-01         | 1.69E-01      | 2.59E-05          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 1         | Surface      | Nickel      | mg/kg        | 1.40E+02   | 1.79E-03         | 1.00E-03      | 1.92E-07          |
| 14          | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 6.39E-06         | 1.25E-05      | 1.17E-06          |
| 14          | 1         | Surface      | Silver      | mg/kg        | 1.67E+01   | 2.13E-04         | 1.19E-04      | 2.29E-08          |
| 14          | 1         | Surface      | Uranium     | mg/kg        | 7.21E+01   | 9.22E-04         | 6.46E-04      | 9.91E-08          |
| 14          | 2         | Surface      | Antimony    | mg/kg        | 3.70E+00   | 4.73E-05         | 3.31E-05      | 5.08E-09          |
| 14          | 2         | Surface      | Arsenic     | mg/kg        | 1.45E+01   | 1.86E-04         | 7.80E-05      | 2.00E-08          |
| 14          | 2         | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 9.08E-06         | 8.90E-07      | 9.76E-10          |
| 14          | 2         | Surface      | Chromium    | mg/kg        | 6.65E+01   | 8.51E-04         | 5.96E-04      | 9.14E-08          |
| 14          | 2         | Surface      | Copper      | mg/kg        | 1.76E+02   | 2.26E-03         | 1.58E-03      | 2.42E-07          |
| 14          | 2         | Surface      | Iron        | mg/kg        | 3.72E+04   | 4.75E-01         | 3.33E-01      | 5.11E-05          |
| 14          | 2         | Surface      | Manganese   | mg/kg        | 1.44E+03   | 1.84E-02         | 1.03E-02      | 1.98E-06          |
| 14          | 2         | Surface      | Mercury     | mg/kg        | 2.67E-01   | 3.41E-06         | 2.39E-06      | 1.10E-05          |
| 14          | 2         | Surface      | Nickel      | mg/kg        | 6.78E+02   | 8.67E-03         | 4.85E-03      | 9.32E-07          |
| 14          | 2         | Surface      | PCB, Total  | mg/kg        | 3.90E-01   | 4.99E-06         | 9.77E-06      | 9.10E-07          |
| 14          | 2         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 4.32E-06         | 7.87E-06      | 3.45E-08          |
| 14          | 2         | Surface      | Uranium     | mg/kg        | 2.93E+02   | 3.75E-03         | 2.62E-03      | 4.03E-07          |
| 14          | 3         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 1.66E-04         | 6.96E-05      | 1.78E-08          |
| 14          | 3         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 8.97E-04         | 6.28E-04      | 9.64E-08          |
| 14          | 3         | Surface      | Copper      | mg/kg        | 1.29E+02   | 1.65E-03         | 1.16E-03      | 1.78E-07          |
| 14          | 3         | Surface      | Iron        | mg/kg        | 3.48E+04   | 4.45E-01         | 3.12E-01      | 4.79E-05          |
| 14          | 3         | Surface      | Manganese   | mg/kg        | 1.06E+03   | 1.35E-02         | 7.57E-03      | 1.45E-06          |
| 14          | 3         | Surface      | Mercury     | mg/kg        | 7.48E+00   | 9.56E-05         | 6.69E-05      | 3.08E-04          |
| 14          | 3         | Surface      | Molybdenum  | mg/kg        | 2.21E+01   | 2.82E-04         | 1.98E-04      | 3.03E-08          |
| 14          | 3         | Surface      | Nickel      | mg/kg        | 5.76E+02   | 7.37E-03         | 4.13E-03      | 7.92E-07          |
| 14          | 3         | Surface      | PCB, Total  | mg/kg        | 8.65E+00   | 1.11E-04         | 2.17E-04      | 2.02E-05          |
| 14          | 3         | Surface      | Uranium     | mg/kg        | 2.18E+02   | 2.78E-03         | 1.95E-03      | 2.99E-07          |
| 14          | 4         | Surface      | Antimony    | mg/kg        | 4.30E+00   | 5.50E-05         | 3.85E-05      | 5.91E-09          |
| 14          | 4         | Surface      | Arsenic     | mg/kg        | 1.33E+01   | 1.70E-04         | 7.13E-05      | 1.82E-08          |
| 14          | 4         | Surface      | Chromium    | mg/kg        | 7.20E+01   | 9.21E-04         | 6.45E-04      | 9.90E-08          |
| 14          | 4         | Surface      | Copper      | mg/kg        | 3.54E+02   | 4.52E-03         | 3.16E-03      | 4.86E-07          |
| 14          | 4         | Surface      | Iron        | mg/kg        | 3.88E+04   | 4.97E-01         | 3.48E-01      | 5.34E-05          |
| 14          | 4         | Surface      | Mercury     | mg/kg        | 4.87E-01   | 6.23E-06         | 4.36E-06      | 2.01E-05          |
| 14          | 4         | Surface      | Nickel      | mg/kg        | 7.31E+02   | 9.34E-03         | 5.23E-03      | 1.00E-06          |
| 14          | 4         | Surface      | PCB, Total  | mg/kg        | 6.61E+00   | 8.45E-05         | 1.66E-04      | 1.54E-05          |
| 14          | 4         | Surface      | Silver      | mg/kg        | 1.17E+01   | 1.50E-04         | 8.38E-05      | 1.61E-08          |
| 14          | 4         | Surface      | Total PAH   | mg/kg        | 2.51E-01   | 3.21E-06         | 5.84E-06      | 2.56E-08          |
| 14          | 4         | Surface      | Uranium     | mg/kg        | 3.72E+02   | 4.75E-03         | 3.33E-03      | 5.11E-07          |
| 14          | 5         | Surface      | Antimony    | mg/kg        | 2.30E+00   | 2.94E-05         | 2.06E-05      | 3.16E-09          |
| 14          | 5         | Surface      | Arsenic     | mg/kg        | 1.31E+01   | 1.67E-04         | 7.02E-05      | 1.80E-08          |
| 14          | 5         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 4.99E-05         | 6.98E-07      | 5.36E-09          |
| 14          | 5         | Surface      | Chromium    | mg/kg        | 4.70E+01   | 6.01E-04         | 4.20E-04      | 6.45E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 5         | Surface      | Cobalt      | mg/kg        | 1.40E+01   | 1.79E-04         | 1.25E-04      | 1.92E-08          |
| 14          | 5         | Surface      | Copper      | mg/kg        | 1.34E+02   | 1.71E-03         | 1.19E-03      | 1.83E-07          |
| 14          | 5         | Surface      | Iron        | mg/kg        | 3.92E+04   | 5.01E-01         | 3.51E-01      | 5.39E-05          |
| 14          | 5         | Surface      | Manganese   | mg/kg        | 8.28E+02   | 1.06E-02         | 5.93E-03      | 1.14E-06          |
| 14          | 5         | Surface      | Mercury     | mg/kg        | 1.09E+01   | 1.40E-04         | 9.79E-05      | 4.51E-04          |
| 14          | 5         | Surface      | Nickel      | mg/kg        | 4.61E+02   | 5.90E-03         | 3.30E-03      | 6.34E-07          |
| 14          | 5         | Surface      | PCB, Total  | mg/kg        | 1.00E+00   | 1.28E-05         | 2.51E-05      | 2.33E-06          |
| 14          | 5         | Surface      | Silver      | mg/kg        | 1.29E+01   | 1.65E-04         | 9.21E-05      | 1.77E-08          |
| 14          | 5         | Surface      | Thallium    | mg/kg        | 4.10E-01   | 5.24E-06         | 3.67E-06      | 5.63E-10          |
| 14          | 5         | Surface      | Total PAH   | mg/kg        | 1.21E-01   | 1.55E-06         | 2.81E-06      | 1.23E-08          |
| 14          | 5         | Surface      | Uranium     | mg/kg        | 2.62E+02   | 3.35E-03         | 2.35E-03      | 3.60E-07          |
| 14          | 6         | Surface      | Antimony    | mg/kg        | 2.70E+00   | 3.45E-05         | 2.42E-05      | 3.71E-09          |
| 14          | 6         | Surface      | Cadmium     | mg/kg        | 8.40E-01   | 1.07E-05         | 1.50E-07      | 1.15E-09          |
| 14          | 6         | Surface      | Chromium    | mg/kg        | 4.46E+02   | 5.70E-03         | 3.99E-03      | 6.13E-07          |
| 14          | 6         | Surface      | Copper      | mg/kg        | 1.22E+02   | 1.56E-03         | 1.09E-03      | 1.68E-07          |
| 14          | 6         | Surface      | Mercury     | mg/kg        | 3.47E-01   | 4.44E-06         | 3.11E-06      | 1.43E-05          |
| 14          | 6         | Surface      | Nickel      | mg/kg        | 9.63E+02   | 1.23E-02         | 6.90E-03      | 1.32E-06          |
| 14          | 6         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 6.39E-05         | 1.25E-04      | 1.17E-05          |
| 14          | 6         | Surface      | Silver      | mg/kg        | 1.19E+01   | 1.52E-04         | 8.51E-05      | 1.63E-08          |
| 14          | 6         | Surface      | Uranium     | mg/kg        | 5.79E+02   | 7.40E-03         | 5.18E-03      | 7.95E-07          |
| 14          | 7         | Surface      | Antimony    | mg/kg        | 7.50E-01   | 9.59E-06         | 6.71E-06      | 1.03E-09          |
| 14          | 7         | Surface      | Arsenic     | mg/kg        | 1.13E+01   | 1.44E-04         | 6.07E-05      | 1.55E-08          |
| 14          | 7         | Surface      | Cadmium     | mg/kg        | 2.70E+00   | 3.45E-05         | 4.83E-07      | 3.71E-09          |
| 14          | 7         | Surface      | Chromium    | mg/kg        | 6.46E+01   | 8.25E-04         | 5.78E-04      | 8.87E-08          |
| 14          | 7         | Surface      | Mercury     | mg/kg        | 7.82E+00   | 1.00E-04         | 7.00E-05      | 3.22E-04          |
| 14          | 7         | Surface      | Nickel      | mg/kg        | 1.22E+03   | 1.56E-02         | 8.76E-03      | 1.68E-06          |
| 14          | 7         | Surface      | PCB, Total  | mg/kg        | 7.60E+00   | 9.72E-05         | 1.91E-04      | 1.77E-05          |
| 14          | 7         | Surface      | Total PAH   | mg/kg        | 6.31E-02   | 8.07E-07         | 1.47E-06      | 6.44E-09          |
| 14          | 7         | Surface      | Uranium     | mg/kg        | 3.33E+02   | 4.26E-03         | 2.98E-03      | 4.57E-07          |
| 14          | 8         | Surface      | Antimony    | mg/kg        | 6.10E-01   | 7.80E-06         | 5.46E-06      | 8.38E-10          |
| 14          | 8         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 1.45E-04         | 6.11E-05      | 1.56E-08          |
| 14          | 8         | Surface      | Chromium    | mg/kg        | 4.60E+01   | 5.89E-04         | 4.12E-04      | 6.33E-08          |
| 14          | 8         | Surface      | Mercury     | mg/kg        | 7.90E+00   | 1.01E-04         | 7.07E-05      | 3.26E-04          |
| 14          | 8         | Surface      | Nickel      | mg/kg        | 6.73E+02   | 8.60E-03         | 4.81E-03      | 9.24E-07          |
| 14          | 8         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 6.39E-05         | 1.25E-04      | 1.17E-05          |
| 14          | 8         | Surface      | Silver      | mg/kg        | 9.63E+00   | 1.23E-04         | 6.89E-05      | 1.32E-08          |
| 14          | 8         | Surface      | Total PAH   | mg/kg        | 6.28E-02   | 8.02E-07         | 1.46E-06      | 6.40E-09          |
| 14          | 8         | Surface      | Uranium     | mg/kg        | 3.35E+02   | 4.29E-03         | 3.00E-03      | 4.61E-07          |
| 14          | 9         | Surface      | Antimony    | mg/kg        | 2.00E+00   | 2.56E-05         | 1.79E-05      | 2.75E-09          |
| 14          | 9         | Surface      | Arsenic     | mg/kg        | 1.40E+01   | 1.80E-04         | 7.54E-05      | 1.93E-08          |
| 14          | 9         | Surface      | Cadmium     | mg/kg        | 9.40E-01   | 1.20E-05         | 1.68E-07      | 1.29E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 9         | Surface      | Chromium    | mg/kg        | 4.64E+01   | 5.94E-04         | 4.16E-04      | 6.38E-08          |
| 14          | 9         | Surface      | Mercury     | mg/kg        | 1.13E+00   | 1.44E-05         | 1.01E-05      | 4.66E-05          |
| 14          | 9         | Surface      | Nickel      | mg/kg        | 9.43E+02   | 1.21E-02         | 6.75E-03      | 1.30E-06          |
| 14          | 9         | Surface      | PCB, Total  | mg/kg        | 6.84E+00   | 8.75E-05         | 1.71E-04      | 1.60E-05          |
| 14          | 9         | Surface      | Total PAH   | mg/kg        | 4.87E-01   | 6.23E-06         | 1.13E-05      | 4.97E-08          |
| 14          | 9         | Surface      | Uranium     | mg/kg        | 1.46E+03   | 1.87E-02         | 1.31E-02      | 2.01E-06          |
| 14          | 10        | Surface      | Antimony    | mg/kg        | 9.40E-01   | 1.20E-05         | 8.41E-06      | 1.29E-09          |
| 14          | 10        | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 1.44E-04         | 6.04E-05      | 1.54E-08          |
| 14          | 10        | Surface      | Chromium    | mg/kg        | 4.19E+01   | 5.35E-04         | 3.75E-04      | 5.75E-08          |
| 14          | 10        | Surface      | Copper      | mg/kg        | 1.41E+02   | 1.81E-03         | 1.26E-03      | 1.94E-07          |
| 14          | 10        | Surface      | Iron        | mg/kg        | 2.75E+04   | 3.51E-01         | 2.46E-01      | 3.77E-05          |
| 14          | 10        | Surface      | Mercury     | mg/kg        | 2.51E+01   | 3.21E-04         | 2.25E-04      | 1.03E-03          |
| 14          | 10        | Surface      | Nickel      | mg/kg        | 6.00E+02   | 7.68E-03         | 4.30E-03      | 8.25E-07          |
| 14          | 10        | Surface      | PCB, Total  | mg/kg        | 9.38E+00   | 1.20E-04         | 2.35E-04      | 2.19E-05          |
| 14          | 10        | Surface      | Total PAH   | mg/kg        | 2.72E-01   | 3.47E-06         | 6.32E-06      | 2.77E-08          |
| 14          | 10        | Surface      | Uranium     | mg/kg        | 2.88E+02   | 3.69E-03         | 2.58E-03      | 3.96E-07          |
| 518         | 1         | Surface      | Carbazole   | mg/kg        | 1.17E+01   | 1.50E-04         | 2.10E-04      | 7.51E-06          |
| 518         | 1         | Surface      | Cobalt      | mg/kg        | 6.80E+00   | 8.70E-05         | 6.09E-05      | 9.35E-09          |
| 518         | 1         | Surface      | Nickel      | mg/kg        | 1.29E+01   | 1.64E-04         | 9.21E-05      | 1.77E-08          |
| 518         | 1         | Surface      | PCB, Total  | mg/kg        | 6.30E-01   | 8.05E-06         | 1.58E-05      | 1.47E-06          |
| 518         | 1         | Surface      | Pyrene      | mg/kg        | 3.94E+01   | 5.04E-04         | 9.18E-04      | 3.58E-05          |
| 518         | 1         | Surface      | Total PAH   | mg/kg        | 3.90E+01   | 4.98E-04         | 9.07E-04      | 3.97E-06          |
| 518         | 1         | Surface      | Uranium     | mg/kg        | 2.17E+02   | 2.77E-03         | 1.94E-03      | 2.98E-07          |
| 520         | 1         | Surface      | Chromium    | mg/kg        | 3.17E+01   | 4.06E-04         | 2.84E-04      | 4.36E-08          |
| 520         | 1         | Surface      | Iron        | mg/kg        | 1.56E+04   | 1.99E-01         | 1.40E-01      | 2.14E-05          |
| 520         | 1         | Surface      | Mercury     | mg/kg        | 1.07E+01   | 1.37E-04         | 9.56E-05      | 4.40E-04          |
| 520         | 1         | Surface      | Nickel      | mg/kg        | 2.60E+02   | 3.33E-03         | 1.86E-03      | 3.58E-07          |
| 520         | 1         | Surface      | Silver      | mg/kg        | 1.30E+01   | 1.66E-04         | 9.29E-05      | 1.78E-08          |
| 520         | 1         | Surface      | Total PAH   | mg/kg        | 3.18E-02   | 4.07E-07         | 7.41E-07      | 3.25E-09          |
| 520         | 1         | Surface      | Uranium     | mg/kg        | 2.29E+01   | 2.93E-04         | 2.05E-04      | 3.15E-08          |
| 520         | 2         | Surface      | Beryllium   | mg/kg        | 5.79E-01   | 7.40E-06         | 7.25E-07      | 7.96E-10          |
| 520         | 2         | Surface      | Chromium    | mg/kg        | 6.67E+01   | 8.52E-04         | 5.97E-04      | 9.16E-08          |
| 520         | 2         | Surface      | Manganese   | mg/kg        | 5.89E+02   | 7.54E-03         | 4.22E-03      | 8.10E-07          |
| 520         | 2         | Surface      | Mercury     | mg/kg        | 1.19E+01   | 1.52E-04         | 1.06E-04      | 4.90E-04          |
| 520         | 2         | Surface      | Nickel      | mg/kg        | 3.11E+02   | 3.97E-03         | 2.22E-03      | 4.27E-07          |
| 520         | 2         | Surface      | Total PAH   | mg/kg        | 3.17E-01   | 4.05E-06         | 7.38E-06      | 3.23E-08          |
| 520         | 2         | Surface      | Uranium     | mg/kg        | 3.96E+01   | 5.06E-04         | 3.54E-04      | 5.44E-08          |
| 520         | 3         | Surface      | Chromium    | mg/kg        | 3.97E+01   | 5.07E-04         | 3.55E-04      | 5.45E-08          |
| 520         | 3         | Surface      | Copper      | mg/kg        | 1.19E+02   | 1.52E-03         | 1.07E-03      | 1.64E-07          |
| 520         | 3         | Surface      | Nickel      | mg/kg        | 2.65E+02   | 3.39E-03         | 1.90E-03      | 3.64E-07          |
| 520         | 3         | Surface      | Silver      | mg/kg        | 1.27E+01   | 1.62E-04         | 9.07E-05      | 1.74E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.19. Noncancerous CDIs for the Child Resident (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 520         | 3         | Surface      | Total PAH   | mg/kg        | 1.18E-01   | 1.51E-06         | 2.75E-06      | 1.20E-08          |
| 520         | 3         | Surface      | Uranium     | mg/kg        | 1.92E+01   | 2.46E-04         | 1.72E-04      | 2.64E-08          |
| 520         | 4         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 4.89E-04         | 3.42E-04      | 5.25E-08          |
| 520         | 4         | Surface      | Copper      | mg/kg        | 1.11E+02   | 1.41E-03         | 9.90E-04      | 1.52E-07          |
| 520         | 4         | Surface      | Mercury     | mg/kg        | 9.69E+00   | 1.24E-04         | 8.67E-05      | 3.99E-04          |
| 520         | 4         | Surface      | Nickel      | mg/kg        | 2.82E+02   | 3.60E-03         | 2.02E-03      | 3.87E-07          |
| 520         | 4         | Surface      | Silver      | mg/kg        | 1.04E+01   | 1.33E-04         | 7.47E-05      | 1.43E-08          |
| 520         | 4         | Surface      | Total PAH   | mg/kg        | 5.52E-01   | 7.06E-06         | 1.29E-05      | 5.64E-08          |
| 520         | 4         | Surface      | Uranium     | mg/kg        | 2.40E+01   | 3.07E-04         | 2.15E-04      | 3.30E-08          |
| 520         | 5         | Surface      | Antimony    | mg/kg        | 9.60E-01   | 1.23E-05         | 8.59E-06      | 1.32E-09          |
| 520         | 5         | Surface      | Chromium    | mg/kg        | 3.68E+01   | 4.71E-04         | 3.30E-04      | 5.06E-08          |
| 520         | 5         | Surface      | Nickel      | mg/kg        | 1.47E+02   | 1.88E-03         | 1.05E-03      | 2.02E-07          |
| 520         | 5         | Surface      | Total PAH   | mg/kg        | 3.87E-01   | 4.95E-06         | 9.01E-06      | 3.95E-08          |
| 81          | 1         | Surface      | Aluminum    | mg/kg        | 9.57E+03   | 1.22E-01         | 8.57E-02      | 1.32E-05          |
| 81          | 1         | Surface      | Arsenic     | mg/kg        | 1.03E+01   | 1.31E-04         | 5.50E-05      | 1.41E-08          |
| 81          | 1         | Surface      | Beryllium   | mg/kg        | 7.57E-01   | 9.68E-06         | 9.48E-07      | 1.04E-09          |
| 81          | 1         | Surface      | Chromium    | mg/kg        | 8.62E+01   | 1.10E-03         | 7.71E-04      | 1.18E-07          |
| 81          | 1         | Surface      | Mercury     | mg/kg        | 8.33E+00   | 1.07E-04         | 7.46E-05      | 3.43E-04          |
| 81          | 1         | Surface      | Nickel      | mg/kg        | 7.29E+01   | 9.32E-04         | 5.22E-04      | 1.00E-07          |
| 81          | 1         | Surface      | PCB, Total  | mg/kg        | 1.60E+02   | 2.04E-03         | 4.00E-03      | 3.73E-04          |
| 81          | 1         | Surface      | Silver      | mg/kg        | 2.70E+00   | 3.45E-05         | 1.93E-05      | 3.71E-09          |
| 81          | 1         | Surface      | Total PAH   | mg/kg        | 5.53E-01   | 7.07E-06         | 1.29E-05      | 5.64E-08          |
| 81          | 1         | Surface      | Uranium     | mg/kg        | 6.50E+03   | 8.31E-02         | 5.82E-02      | 8.93E-06          |
| 153         | 1         | Surface      | PCB, Total  | mg/kg        | 5.09E-01   | 6.51E-06         | 1.28E-05      | 1.19E-06          |
| 153         | 1         | Surface      | Total PAH   | mg/kg        | 8.69E-02   | 1.11E-06         | 2.02E-06      | 8.87E-09          |
| 156         | 1         | Surface      | Chromium    | mg/kg        | 4.90E+01   | 6.27E-04         | 4.39E-04      | 6.74E-08          |
| 156         | 1         | Surface      | Manganese   | mg/kg        | 2.83E+03   | 3.62E-02         | 2.03E-02      | 3.89E-06          |
| 156         | 1         | Surface      | Mercury     | mg/kg        | 9.87E+00   | 1.26E-04         | 8.83E-05      | 4.07E-04          |
| 156         | 1         | Surface      | Nickel      | mg/kg        | 6.16E+01   | 7.88E-04         | 4.41E-04      | 8.47E-08          |
| 156         | 1         | Surface      | PCB, Total  | mg/kg        | 3.00E-01   | 3.84E-06         | 7.52E-06      | 7.00E-07          |
| 156         | 1         | Surface      | Total PAH   | mg/kg        | 8.26E-02   | 1.06E-06         | 1.92E-06      | 8.43E-09          |
| 156         | 1         | Surface      | Uranium     | mg/kg        | 2.32E+01   | 2.96E-04         | 2.08E-04      | 3.19E-08          |
| 160         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 8.69E-06         | 6.09E-06      | 9.34E-10          |
| 160         | 1         | Surface      | Total PAH   | mg/kg        | 5.29E-02   | 6.76E-07         | 1.23E-06      | 5.40E-09          |
| 163         | 1         | Surface      | Chromium    | mg/kg        | 4.94E+01   | 6.32E-04         | 4.42E-04      | 6.79E-08          |
| 163         | 1         | Surface      | Total PAH   | mg/kg        | 1.63E-01   | 2.08E-06         | 3.79E-06      | 1.66E-08          |
| 219         | 1         | Surface      | Nickel      | mg/kg        | 6.71E+01   | 8.58E-04         | 4.81E-04      | 9.23E-08          |
| 219         | 1         | Surface      | Total PAH   | mg/kg        | 7.50E-02   | 9.59E-07         | 1.75E-06      | 7.65E-09          |
| 488         | 1         | Surface      | PCB, Total  | mg/kg        | 1.03E+01   | 1.32E-04         | 2.58E-04      | 2.40E-05          |
| 488         | 1         | Surface      | Total PAH   | mg/kg        | 2.50E-01   | 3.19E-06         | 5.81E-06      | 2.55E-08          |
| 488         | 1         | Surface      | Uranium     | mg/kg        | 1.48E+01   | 1.89E-04         | 1.32E-04      | 2.03E-08          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 1    | 1  | Surface | Beryllium         | mg/kg | 3.89E+00 | 4.27E-06  | 4.18E-07 | 4.59E-10   |                   |
| 1    | 1  | Surface | Cadmium           | mg/kg | 1.10E+00 | 1.21E-06  | 1.69E-08 | 1.30E-10   |                   |
| 1    | 1  | Surface | Chromium          | mg/kg | 1.28E+01 | 1.40E-05  | 9.83E-06 | 1.51E-09   |                   |
| 1    | 1  | Surface | PCB, Total        | mg/kg | 1.76E-01 | 1.93E-07  | 3.78E-07 | 3.52E-08   |                   |
| 1    | 1  | Surface | Cesium-137        | pCi/g | 5.91E-01 | 2.48E+02  |          | 2.67E-02   | 2.72E+00          |
| 1    | 1  | Surface | Neptunium-237     | pCi/g | 4.02E-01 | 1.69E+02  |          | 1.81E-02   | 1.85E+00          |
| 1    | 1  | Surface | Plutonium-239/240 | pCi/g | 6.14E+00 | 2.58E+03  |          | 2.77E-01   | 2.83E+01          |
| 1    | 1  | Surface | Thorium-230       | pCi/g | 4.40E+01 | 1.85E+04  |          | 1.99E+00   | 2.03E+02          |
| 1    | 1  | Surface | Uranium-235       | pCi/g | 1.06E-01 | 4.45E+01  |          | 4.79E-03   | 4.88E-01          |
| 1    | 1  | Surface | Uranium-238       | pCi/g | 1.97E+00 | 8.29E+02  |          | 8.91E-02   | 9.09E+00          |
| 1    | 2  | Surface | Beryllium         | mg/kg | 8.23E+00 | 9.02E-06  | 8.84E-07 | 9.69E-10   |                   |
| 1    | 2  | Surface | Cadmium           | mg/kg | 6.46E+00 | 7.08E-06  | 9.91E-08 | 7.61E-10   |                   |
| 1    | 2  | Surface | Chromium          | mg/kg | 2.01E+02 | 2.20E-04  | 1.54E-04 | 2.37E-08   |                   |
| 1    | 2  | Surface | Copper            | mg/kg | 1.81E+02 | 1.98E-04  | 1.39E-04 | 2.13E-08   |                   |
| 1    | 2  | Surface | Mercury           | mg/kg | 5.94E+00 | 6.51E-06  | 4.56E-06 | 2.10E-05   |                   |
| 1    | 2  | Surface | Nickel            | mg/kg | 5.75E+01 | 6.30E-05  | 3.53E-05 | 6.77E-09   |                   |
| 1    | 2  | Surface | PCB, Total        | mg/kg | 3.21E+01 | 3.52E-05  | 6.90E-05 | 6.42E-06   |                   |
| 1    | 2  | Surface | Silver            | mg/kg | 3.31E+01 | 3.63E-05  | 2.03E-05 | 3.90E-09   |                   |
| 1    | 2  | Surface | Thallium          | mg/kg | 3.70E-01 | 4.05E-07  | 2.84E-07 | 4.36E-11   |                   |
| 1    | 2  | Surface | Vanadium          | mg/kg | 3.49E+01 | 3.82E-05  | 1.39E-05 | 4.11E-09   |                   |
| 1    | 3  | Surface | Chromium          | mg/kg | 1.45E+01 | 1.59E-05  | 1.11E-05 | 1.70E-09   |                   |
| 1    | 3  | Surface | PCB, Total        | mg/kg | 2.17E-01 | 2.38E-07  | 4.66E-07 | 4.34E-08   |                   |
| 1    | 3  | Surface | Uranium-238       | pCi/g | 1.73E+00 | 7.27E+02  |          | 7.81E-02   | 7.96E+00          |
| 1    | 4  | Surface | Beryllium         | mg/kg | 7.25E-01 | 7.95E-07  | 7.79E-08 | 8.54E-11   |                   |
| 1    | 4  | Surface | Chromium          | mg/kg | 9.30E+01 | 1.02E-04  | 7.14E-05 | 1.10E-08   |                   |
| 1    | 4  | Surface | Nickel            | mg/kg | 4.69E+01 | 5.14E-05  | 2.88E-05 | 5.52E-09   |                   |
| 1    | 4  | Surface | PCB, Total        | mg/kg | 1.30E-01 | 1.42E-07  | 2.79E-07 | 2.60E-08   |                   |
| 1    | 4  | Surface | Cobalt-60         | pCi/g | 2.20E-02 | 9.24E+00  |          | 9.93E-04   | 1.01E-01          |
| 1    | 4  | Surface | Thorium-230       | pCi/g | 5.03E+00 | 2.11E+03  |          | 2.27E-01   | 2.32E+01          |
| 1    | 5  | Surface | Beryllium         | mg/kg | 8.30E+00 | 9.10E-06  | 8.91E-07 | 9.78E-10   |                   |
| 1    | 5  | Surface | Cadmium           | mg/kg | 1.20E+00 | 1.32E-06  | 1.84E-08 | 1.41E-10   |                   |
| 1    | 5  | Surface | Nickel            | mg/kg | 4.07E+01 | 4.46E-05  | 2.50E-05 | 4.79E-09   |                   |
| 1    | 5  | Surface | PCB, Total        | mg/kg | 2.70E-01 | 2.96E-07  | 5.80E-07 | 5.40E-08   |                   |
| 1    | 5  | Surface | Total PAH         | mg/kg | 9.83E-02 | 1.08E-07  | 1.96E-07 | 8.60E-10   |                   |
| 99   | 1  | Surface | Chromium          | mg/kg | 5.51E+01 | 6.04E-05  | 4.23E-05 | 6.49E-09   |                   |
| 99   | 1  | Surface | Mercury           | mg/kg | 9.53E+00 | 1.04E-05  | 7.31E-06 | 3.37E-05   |                   |
| 99   | 1  | Surface | Nickel            | mg/kg | 7.02E+01 | 7.69E-05  | 4.31E-05 | 8.27E-09   |                   |
| 99   | 1  | Surface | Silver            | mg/kg | 1.03E+01 | 1.13E-05  | 6.32E-06 | 1.21E-09   |                   |
| 99   | 1  | Surface | Cobalt-60         | pCi/g | 1.19E-02 | 5.00E+00  |          | 5.37E-04   | 5.48E-02          |
| 99   | 1  | Surface | Uranium-238       | pCi/g | 9.45E-01 | 3.97E+02  |          | 4.27E-02   | 4.35E+00          |
| 194  | 1  | Surface | Antimony          | mg/kg | 1.50E+00 | 1.64E-06  | 1.15E-06 | 1.77E-10   |                   |
| 194  | 1  | Surface | Chromium          | mg/kg | 3.87E+01 | 4.24E-05  | 2.97E-05 | 4.56E-09   |                   |
| 194  | 1  | Surface | Mercury           | mg/kg | 6.71E+00 | 7.35E-06  | 5.15E-06 | 2.37E-05   |                   |
| 194  | 1  | Surface | Nickel            | mg/kg | 5.84E+01 | 6.40E-05  | 3.59E-05 | 6.88E-09   |                   |
| 194  | 1  | Surface | Silver            | mg/kg | 1.09E+01 | 1.20E-05  | 6.71E-06 | 1.29E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 2  | Surface | Chromium    | mg/kg | 5.96E+01 | 6.53E-05  | 4.57E-05 | 7.02E-09   |                   |
| 194  | 2  | Surface | Silver      | mg/kg | 1.31E+01 | 1.44E-05  | 8.06E-06 | 1.55E-09   |                   |
| 194  | 2  | Surface | Uranium     | mg/kg | 2.28E+01 | 2.50E-05  | 1.75E-05 | 2.68E-09   |                   |
| 194  | 2  | Surface | Uranium-238 | pCi/g | 1.42E+00 | 5.96E+02  |          | 6.41E-02   | 6.54E+00          |
| 194  | 3  | Surface | Antimony    | mg/kg | 6.90E-01 | 7.56E-07  | 5.29E-07 | 8.13E-11   |                   |
| 194  | 3  | Surface | Arsenic     | mg/kg | 1.46E+01 | 1.60E-05  | 6.74E-06 | 1.72E-09   |                   |
| 194  | 3  | Surface | Chromium    | mg/kg | 3.90E+01 | 4.27E-05  | 2.99E-05 | 4.59E-09   |                   |
| 194  | 3  | Surface | Nickel      | mg/kg | 6.40E+01 | 7.02E-05  | 3.93E-05 | 7.54E-09   |                   |
| 194  | 3  | Surface | Total PAH   | mg/kg | 3.93E-02 | 4.31E-08  | 7.84E-08 | 3.44E-10   |                   |
| 194  | 3  | Surface | Uranium-238 | pCi/g | 1.28E+00 | 5.39E+02  |          | 5.80E-02   | 5.91E+00          |
| 194  | 4  | Surface | Chromium    | mg/kg | 4.84E+01 | 5.31E-05  | 3.71E-05 | 5.70E-09   |                   |
| 194  | 4  | Surface | Mercury     | mg/kg | 8.92E+00 | 9.78E-06  | 6.84E-06 | 3.15E-05   |                   |
| 194  | 4  | Surface | Nickel      | mg/kg | 6.91E+01 | 7.57E-05  | 4.24E-05 | 8.13E-09   |                   |
| 194  | 4  | Surface | Silver      | mg/kg | 1.18E+01 | 1.29E-05  | 7.23E-06 | 1.39E-09   |                   |
| 194  | 4  | Surface | Total PAH   | mg/kg | 7.30E-02 | 8.00E-08  | 1.46E-07 | 6.38E-10   |                   |
| 194  | 4  | Surface | Uranium-238 | pCi/g | 1.73E+00 | 7.27E+02  |          | 7.81E-02   | 7.96E+00          |
| 194  | 5  | Surface | Chromium    | mg/kg | 4.58E+01 | 5.02E-05  | 3.51E-05 | 5.39E-09   |                   |
| 194  | 5  | Surface | Mercury     | mg/kg | 8.69E+00 | 9.52E-06  | 6.67E-06 | 3.07E-05   |                   |
| 194  | 5  | Surface | Nickel      | mg/kg | 7.54E+01 | 8.27E-05  | 4.63E-05 | 8.89E-09   |                   |
| 194  | 5  | Surface | Silver      | mg/kg | 1.25E+01 | 1.36E-05  | 7.64E-06 | 1.47E-09   |                   |
| 194  | 5  | Surface | Total PAH   | mg/kg | 2.37E-02 | 2.60E-08  | 4.73E-08 | 2.07E-10   |                   |
| 194  | 5  | Surface | Uranium-238 | pCi/g | 1.38E+00 | 5.80E+02  |          | 6.23E-02   | 6.35E+00          |
| 194  | 6  | Surface | Chromium    | mg/kg | 3.70E+01 | 4.06E-05  | 2.84E-05 | 4.36E-09   |                   |
| 194  | 6  | Surface | Manganese   | mg/kg | 1.08E+03 | 1.18E-03  | 6.63E-04 | 1.27E-07   |                   |
| 194  | 6  | Surface | Nickel      | mg/kg | 8.06E+01 | 8.83E-05  | 4.95E-05 | 9.49E-09   |                   |
| 194  | 6  | Surface | Silver      | mg/kg | 9.89E+00 | 1.08E-05  | 6.07E-06 | 1.16E-09   |                   |
| 194  | 6  | Surface | Uranium-238 | pCi/g | 1.32E+00 | 5.54E+02  |          | 5.96E-02   | 6.08E+00          |
| 194  | 7  | Surface | Chromium    | mg/kg | 5.32E+01 | 5.83E-05  | 4.08E-05 | 6.27E-09   |                   |
| 194  | 7  | Surface | Nickel      | mg/kg | 7.71E+01 | 8.45E-05  | 4.73E-05 | 9.09E-09   |                   |
| 194  | 7  | Surface | Silver      | mg/kg | 1.25E+01 | 1.37E-05  | 7.67E-06 | 1.47E-09   |                   |
| 194  | 8  | Surface | Chromium    | mg/kg | 5.36E+01 | 5.87E-05  | 4.11E-05 | 6.31E-09   |                   |
| 194  | 8  | Surface | Manganese   | mg/kg | 8.00E+02 | 8.77E-04  | 4.91E-04 | 9.42E-08   |                   |
| 194  | 8  | Surface | Total PAH   | mg/kg | 4.85E-01 | 5.32E-07  | 9.67E-07 | 4.24E-09   |                   |
| 194  | 8  | Surface | Uranium-238 | pCi/g | 1.39E+00 | 5.84E+02  |          | 6.27E-02   | 6.40E+00          |
| 194  | 9  | Surface | Arsenic     | mg/kg | 1.14E+01 | 1.25E-05  | 5.26E-06 | 1.35E-09   |                   |
| 194  | 9  | Surface | Chromium    | mg/kg | 5.17E+01 | 5.66E-05  | 3.96E-05 | 6.08E-09   |                   |
| 194  | 10 | Surface | Arsenic     | mg/kg | 1.22E+01 | 1.33E-05  | 5.60E-06 | 1.43E-09   |                   |
| 194  | 10 | Surface | Chromium    | mg/kg | 3.63E+01 | 3.98E-05  | 2.78E-05 | 4.27E-09   |                   |
| 194  | 10 | Surface | Nickel      | mg/kg | 7.60E+01 | 8.33E-05  | 4.66E-05 | 8.95E-09   |                   |
| 194  | 10 | Surface | Total PAH   | mg/kg | 2.57E-01 | 2.82E-07  | 5.13E-07 | 2.25E-09   |                   |
| 194  | 10 | Surface | Cesium-137  | pCi/g | 5.81E-01 | 2.44E+02  |          | 2.62E-02   | 2.67E+00          |
| 194  | 10 | Surface | Uranium-238 | pCi/g | 1.49E+00 | 6.26E+02  |          | 6.73E-02   | 6.86E+00          |
| 194  | 11 | Surface | Chromium    | mg/kg | 3.27E+01 | 3.58E-05  | 2.51E-05 | 3.85E-09   |                   |
| 194  | 11 | Surface | Mercury     | mg/kg | 8.09E+00 | 8.87E-06  | 6.21E-06 | 2.86E-05   |                   |
| 194  | 11 | Surface | Nickel      | mg/kg | 1.01E+02 | 1.10E-04  | 6.18E-05 | 1.19E-08   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 11 | Surface | PCB, Total | mg/kg | 8.40E-02 | 9.21E-08  | 1.80E-07 | 1.68E-08   |                   |
| 194  | 11 | Surface | Silver     | mg/kg | 1.33E+01 | 1.46E-05  | 8.16E-06 | 1.57E-09   |                   |
| 194  | 11 | Surface | Total PAH  | mg/kg | 7.95E-02 | 8.72E-08  | 1.59E-07 | 6.95E-10   |                   |
| 194  | 12 | Surface | Chromium   | mg/kg | 6.34E+01 | 6.94E-05  | 4.86E-05 | 7.46E-09   |                   |
| 194  | 12 | Surface | Nickel     | mg/kg | 7.86E+01 | 8.61E-05  | 4.82E-05 | 9.26E-09   |                   |
| 194  | 12 | Surface | Silver     | mg/kg | 1.20E+01 | 1.31E-05  | 7.35E-06 | 1.41E-09   |                   |
| 194  | 12 | Surface | Total PAH  | mg/kg | 8.91E-01 | 9.77E-07  | 1.78E-06 | 7.79E-09   |                   |
| 194  | 13 | Surface | Chromium   | mg/kg | 4.77E+01 | 5.22E-05  | 3.66E-05 | 5.61E-09   |                   |
| 194  | 13 | Surface | Nickel     | mg/kg | 6.03E+01 | 6.61E-05  | 3.70E-05 | 7.10E-09   |                   |
| 194  | 13 | Surface | Total PAH  | mg/kg | 9.13E-02 | 1.00E-07  | 1.82E-07 | 7.99E-10   |                   |
| 194  | 14 | Surface | Chromium   | mg/kg | 5.21E+01 | 5.71E-05  | 4.00E-05 | 6.14E-09   |                   |
| 194  | 14 | Surface | Mercury    | mg/kg | 8.14E+00 | 8.92E-06  | 6.24E-06 | 2.88E-05   |                   |
| 194  | 15 | Surface | Chromium   | mg/kg | 5.33E+01 | 5.84E-05  | 4.09E-05 | 6.28E-09   |                   |
| 194  | 15 | Surface | Silver     | mg/kg | 1.03E+01 | 1.13E-05  | 6.33E-06 | 1.21E-09   |                   |
| 194  | 16 | Surface | Antimony   | mg/kg | 7.40E-01 | 8.11E-07  | 5.68E-07 | 8.72E-11   |                   |
| 194  | 16 | Surface | Arsenic    | mg/kg | 1.15E+01 | 1.26E-05  | 5.30E-06 | 1.36E-09   |                   |
| 194  | 16 | Surface | Beryllium  | mg/kg | 8.70E-01 | 9.53E-07  | 9.34E-08 | 1.02E-10   |                   |
| 194  | 16 | Surface | Chromium   | mg/kg | 5.32E+01 | 5.83E-05  | 4.08E-05 | 6.27E-09   |                   |
| 194  | 16 | Surface | Nickel     | mg/kg | 7.20E+01 | 7.89E-05  | 4.42E-05 | 8.48E-09   |                   |
| 194  | 16 | Surface | Thallium   | mg/kg | 6.30E-01 | 6.90E-07  | 4.83E-07 | 7.42E-11   |                   |
| 194  | 16 | Surface | Vanadium   | mg/kg | 4.11E+01 | 4.50E-05  | 1.64E-05 | 4.84E-09   |                   |
| 194  | 17 | Surface | Arsenic    | mg/kg | 1.16E+01 | 1.27E-05  | 5.32E-06 | 1.36E-09   |                   |
| 194  | 17 | Surface | Cadmium    | mg/kg | 1.10E+00 | 1.21E-06  | 1.69E-08 | 1.30E-10   |                   |
| 194  | 17 | Surface | Chromium   | mg/kg | 4.65E+01 | 5.09E-05  | 3.57E-05 | 5.47E-09   |                   |
| 194  | 17 | Surface | Total PAH  | mg/kg | 1.59E-01 | 1.74E-07  | 3.16E-07 | 1.39E-09   |                   |
| 194  | 18 | Surface | Arsenic    | mg/kg | 1.06E+01 | 1.16E-05  | 4.87E-06 | 1.25E-09   |                   |
| 194  | 18 | Surface | Beryllium  | mg/kg | 7.40E-01 | 8.11E-07  | 7.95E-08 | 8.72E-11   |                   |
| 194  | 18 | Surface | Chromium   | mg/kg | 6.85E+01 | 7.50E-05  | 5.25E-05 | 8.07E-09   |                   |
| 194  | 18 | Surface | Nickel     | mg/kg | 5.78E+01 | 6.33E-05  | 3.55E-05 | 6.81E-09   |                   |
| 194  | 19 | Surface | Arsenic    | mg/kg | 1.07E+01 | 1.17E-05  | 4.92E-06 | 1.26E-09   |                   |
| 194  | 19 | Surface | Chromium   | mg/kg | 4.84E+01 | 5.30E-05  | 3.71E-05 | 5.70E-09   |                   |
| 194  | 19 | Surface | Nickel     | mg/kg | 5.84E+01 | 6.40E-05  | 3.58E-05 | 6.88E-09   |                   |
| 194  | 20 | Surface | Arsenic    | mg/kg | 1.18E+01 | 1.30E-05  | 5.45E-06 | 1.39E-09   |                   |
| 194  | 20 | Surface | Barium     | mg/kg | 3.26E+02 | 3.57E-04  | 2.50E-04 | 3.84E-08   |                   |
| 194  | 20 | Surface | Beryllium  | mg/kg | 1.10E+00 | 1.21E-06  | 1.18E-07 | 1.30E-10   |                   |
| 194  | 20 | Surface | Chromium   | mg/kg | 5.24E+01 | 5.74E-05  | 4.02E-05 | 6.17E-09   |                   |
| 194  | 20 | Surface | Cobalt     | mg/kg | 2.11E+01 | 2.31E-05  | 1.62E-05 | 2.49E-09   |                   |
| 194  | 20 | Surface | Manganese  | mg/kg | 2.29E+03 | 2.51E-03  | 1.41E-03 | 2.70E-07   |                   |
| 194  | 20 | Surface | Mercury    | mg/kg | 7.28E+00 | 7.98E-06  | 5.58E-06 | 2.57E-05   |                   |
| 194  | 20 | Surface | Nickel     | mg/kg | 6.57E+01 | 7.20E-05  | 4.03E-05 | 7.74E-09   |                   |
| 194  | 20 | Surface | Silver     | mg/kg | 1.22E+01 | 1.34E-05  | 7.50E-06 | 1.44E-09   |                   |
| 194  | 20 | Surface | Total PAH  | mg/kg | 3.10E-02 | 3.40E-08  | 6.18E-08 | 2.71E-10   |                   |
| 194  | 20 | Surface | Vanadium   | mg/kg | 3.81E+01 | 4.18E-05  | 1.52E-05 | 4.49E-09   |                   |
| 194  | 21 | Surface | Antimony   | mg/kg | 9.30E-01 | 1.02E-06  | 7.13E-07 | 1.10E-10   |                   |
| 194  | 21 | Surface | Chromium   | mg/kg | 5.51E+01 | 6.04E-05  | 4.23E-05 | 6.49E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 21 | Surface | Mercury     | mg/kg | 6.62E+00 | 7.25E-06  | 5.08E-06 | 2.34E-05   |                   |
| 194  | 21 | Surface | Nickel      | mg/kg | 7.01E+01 | 7.68E-05  | 4.30E-05 | 8.26E-09   |                   |
| 194  | 21 | Surface | Thallium    | mg/kg | 6.40E-01 | 7.01E-07  | 4.91E-07 | 7.54E-11   |                   |
| 194  | 22 | Surface | Chromium    | mg/kg | 4.90E+01 | 5.37E-05  | 3.76E-05 | 5.77E-09   |                   |
| 194  | 22 | Surface | Manganese   | mg/kg | 8.19E+02 | 8.98E-04  | 5.03E-04 | 9.65E-08   |                   |
| 194  | 22 | Surface | PCB, Total  | mg/kg | 1.09E+01 | 1.20E-05  | 2.35E-05 | 2.18E-06   |                   |
| 194  | 23 | Surface | Arsenic     | mg/kg | 1.16E+01 | 1.27E-05  | 5.32E-06 | 1.36E-09   |                   |
| 194  | 23 | Surface | Chromium    | mg/kg | 6.60E+01 | 7.23E-05  | 5.06E-05 | 7.77E-09   |                   |
| 194  | 23 | Surface | Iron        | mg/kg | 1.83E+04 | 2.00E-02  | 1.40E-02 | 2.15E-06   |                   |
| 194  | 23 | Surface | Nickel      | mg/kg | 8.77E+01 | 9.61E-05  | 5.38E-05 | 1.03E-08   |                   |
| 194  | 23 | Surface | Silver      | mg/kg | 1.15E+01 | 1.26E-05  | 7.05E-06 | 1.35E-09   |                   |
| 194  | 24 | Surface | Chromium    | mg/kg | 5.02E+01 | 5.50E-05  | 3.85E-05 | 5.91E-09   |                   |
| 194  | 24 | Surface | Nickel      | mg/kg | 7.08E+01 | 7.76E-05  | 4.34E-05 | 8.34E-09   |                   |
| 194  | 24 | Surface | Total PAH   | mg/kg | 2.28E-02 | 2.50E-08  | 4.55E-08 | 1.99E-10   |                   |
| 194  | 25 | Surface | Barium      | mg/kg | 3.00E+02 | 3.29E-04  | 2.30E-04 | 3.53E-08   |                   |
| 194  | 25 | Surface | Chromium    | mg/kg | 6.13E+01 | 6.71E-05  | 4.70E-05 | 7.21E-09   |                   |
| 194  | 25 | Surface | Manganese   | mg/kg | 9.96E+02 | 1.09E-03  | 6.11E-04 | 1.17E-07   |                   |
| 194  | 25 | Surface | Nickel      | mg/kg | 6.33E+01 | 6.94E-05  | 3.89E-05 | 7.46E-09   |                   |
| 194  | 25 | Surface | Total PAH   | mg/kg | 2.06E-02 | 2.26E-08  | 4.11E-08 | 1.80E-10   |                   |
| 194  | 26 | Surface | Beryllium   | mg/kg | 7.00E-01 | 7.67E-07  | 7.52E-08 | 8.25E-11   |                   |
| 194  | 26 | Surface | Chromium    | mg/kg | 4.18E+01 | 4.58E-05  | 3.21E-05 | 4.93E-09   |                   |
| 194  | 26 | Surface | Silver      | mg/kg | 1.03E+01 | 1.13E-05  | 6.30E-06 | 1.21E-09   |                   |
| 194  | 26 | Surface | Thallium    | mg/kg | 3.90E-01 | 4.27E-07  | 2.99E-07 | 4.59E-11   |                   |
| 194  | 27 | Surface | Chromium    | mg/kg | 5.22E+01 | 5.72E-05  | 4.00E-05 | 6.15E-09   |                   |
| 194  | 27 | Surface | Nickel      | mg/kg | 6.55E+01 | 7.18E-05  | 4.02E-05 | 7.72E-09   |                   |
| 194  | 27 | Surface | Silver      | mg/kg | 1.01E+01 | 1.11E-05  | 6.21E-06 | 1.19E-09   |                   |
| 194  | 28 | Surface | Arsenic     | mg/kg | 1.20E+01 | 1.32E-05  | 5.54E-06 | 1.42E-09   |                   |
| 194  | 28 | Surface | Beryllium   | mg/kg | 7.10E-01 | 7.78E-07  | 7.63E-08 | 8.36E-11   |                   |
| 194  | 28 | Surface | Chromium    | mg/kg | 6.07E+01 | 6.65E-05  | 4.66E-05 | 7.15E-09   |                   |
| 194  | 28 | Surface | Manganese   | mg/kg | 1.14E+03 | 1.25E-03  | 6.98E-04 | 1.34E-07   |                   |
| 194  | 28 | Surface | Nickel      | mg/kg | 6.95E+01 | 7.61E-05  | 4.26E-05 | 8.18E-09   |                   |
| 194  | 28 | Surface | Silver      | mg/kg | 1.08E+01 | 1.18E-05  | 6.62E-06 | 1.27E-09   |                   |
| 194  | 28 | Surface | Vanadium    | mg/kg | 4.06E+01 | 4.45E-05  | 1.62E-05 | 4.78E-09   |                   |
| 194  | 29 | Surface | Antimony    | mg/kg | 7.10E-01 | 7.78E-07  | 5.45E-07 | 8.36E-11   |                   |
| 194  | 29 | Surface | Chromium    | mg/kg | 5.06E+01 | 5.54E-05  | 3.88E-05 | 5.96E-09   |                   |
| 194  | 29 | Surface | Nickel      | mg/kg | 6.51E+01 | 7.13E-05  | 4.00E-05 | 7.67E-09   |                   |
| 194  | 29 | Surface | Silver      | mg/kg | 9.77E+00 | 1.07E-05  | 6.00E-06 | 1.15E-09   |                   |
| 194  | 30 | Surface | Chromium    | mg/kg | 5.66E+01 | 6.20E-05  | 4.34E-05 | 6.66E-09   |                   |
| 194  | 30 | Surface | Mercury     | mg/kg | 8.80E+00 | 9.64E-06  | 6.75E-06 | 3.11E-05   |                   |
| 194  | 30 | Surface | Nickel      | mg/kg | 6.99E+01 | 7.66E-05  | 4.29E-05 | 8.23E-09   |                   |
| 194  | 30 | Surface | Silver      | mg/kg | 9.76E+00 | 1.07E-05  | 5.99E-06 | 1.15E-09   |                   |
| 194  | 31 | Surface | Cesium-137  | pCi/g | 5.70E-01 | 2.39E+02  |          | 2.57E-02   | 2.62E+00          |
| 194  | 31 | Surface | Uranium-238 | pCi/g | 1.72E+00 | 7.22E+02  |          | 7.76E-02   | 7.92E+00          |
| 196  | 1  | Surface | Antimony    | mg/kg | 5.90E-01 | 6.47E-07  | 4.53E-07 | 6.95E-11   |                   |
| 196  | 1  | Surface | Chromium    | mg/kg | 1.96E+01 | 2.15E-05  | 1.50E-05 | 2.31E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 196  | 1  | Surface | Nickel        | mg/kg | 5.56E+02 | 6.09E-04  | 3.41E-04 | 6.55E-08   |                   |
| 196  | 1  | Surface | Uranium       | mg/kg | 2.33E+01 | 2.55E-05  | 1.79E-05 | 2.74E-09   |                   |
| 196  | 1  | Surface | Neptunium-237 | pCi/g | 3.11E-01 | 1.31E+02  |          | 1.40E-02   | 1.43E+00          |
| 196  | 1  | Surface | Uranium-238   | pCi/g | 1.54E+00 | 6.47E+02  |          | 6.95E-02   | 7.09E+00          |
| 196  | 2  | Surface | Barium        | mg/kg | 2.02E+02 | 2.21E-04  | 1.55E-04 | 2.38E-08   |                   |
| 196  | 2  | Surface | Cadmium       | mg/kg | 2.53E+00 | 2.77E-06  | 3.88E-08 | 2.98E-10   |                   |
| 196  | 2  | Surface | Chromium      | mg/kg | 2.07E+01 | 2.27E-05  | 1.59E-05 | 2.44E-09   |                   |
| 196  | 2  | Surface | Nickel        | mg/kg | 7.36E+01 | 8.07E-05  | 4.52E-05 | 8.67E-09   |                   |
| 196  | 2  | Surface | PCB, Total    | mg/kg | 1.51E+00 | 1.65E-06  | 3.24E-06 | 3.02E-07   |                   |
| 196  | 2  | Surface | Total PAH     | mg/kg | 6.80E-01 | 7.45E-07  | 1.36E-06 | 5.95E-09   |                   |
| 196  | 2  | Surface | Uranium-238   | pCi/g | 2.21E+00 | 9.28E+02  |          | 9.98E-02   | 1.02E+01          |
| 489  | 1  | Surface | Chromium      | mg/kg | 4.16E+01 | 4.56E-05  | 3.19E-05 | 4.90E-09   |                   |
| 489  | 1  | Surface | Nickel        | mg/kg | 7.88E+01 | 8.64E-05  | 4.84E-05 | 9.28E-09   |                   |
| 489  | 1  | Surface | Total PAH     | mg/kg | 8.22E-02 | 9.01E-08  | 1.64E-07 | 7.19E-10   |                   |
| 489  | 1  | Surface | Uranium-238   | pCi/g | 1.47E+00 | 6.17E+02  |          | 6.64E-02   | 6.77E+00          |
| 531  | 1  | Surface | Antimony      | mg/kg | 1.00E+00 | 1.10E-06  | 7.67E-07 | 1.18E-10   |                   |
| 531  | 1  | Surface | Arsenic       | mg/kg | 4.68E+01 | 5.13E-05  | 2.16E-05 | 5.51E-09   |                   |
| 531  | 1  | Surface | Cadmium       | mg/kg | 3.10E+00 | 3.40E-06  | 4.76E-08 | 3.65E-10   |                   |
| 531  | 1  | Surface | Chromium      | mg/kg | 5.05E+01 | 5.53E-05  | 3.87E-05 | 5.94E-09   |                   |
| 531  | 1  | Surface | Iron          | mg/kg | 5.68E+04 | 6.23E-02  | 4.36E-02 | 6.70E-06   |                   |
| 531  | 1  | Surface | Nickel        | mg/kg | 1.62E+02 | 1.78E-04  | 9.96E-05 | 1.91E-08   |                   |
| 531  | 1  | Surface | Total PAH     | mg/kg | 5.34E-02 | 5.85E-08  | 1.06E-07 | 4.67E-10   |                   |
| 531  | 1  | Surface | Uranium       | mg/kg | 2.41E+01 | 2.64E-05  | 1.85E-05 | 2.84E-09   |                   |
| 531  | 1  | Surface | Zinc          | mg/kg | 2.45E+03 | 2.69E-03  | 1.88E-03 | 2.89E-07   |                   |
| 531  | 1  | Surface | Uranium-235   | pCi/g | 1.38E-01 | 5.80E+01  |          | 6.23E-03   | 6.35E-01          |
| 531  | 1  | Surface | Uranium-238   | pCi/g | 3.48E+00 | 1.46E+03  |          | 1.57E-01   | 1.60E+01          |
| 200  | 1  | Surface | Antimony      | mg/kg | 5.60E-01 | 6.14E-07  | 4.30E-07 | 6.60E-11   |                   |
| 200  | 1  | Surface | Chromium      | mg/kg | 5.75E+01 | 6.30E-05  | 4.41E-05 | 6.78E-09   |                   |
| 200  | 1  | Surface | Mercury       | mg/kg | 6.71E+00 | 7.35E-06  | 5.15E-06 | 2.37E-05   |                   |
| 200  | 1  | Surface | Nickel        | mg/kg | 1.28E+02 | 1.40E-04  | 7.86E-05 | 1.51E-08   |                   |
| 200  | 1  | Surface | PCB, Total    | mg/kg | 2.60E+00 | 2.85E-06  | 5.58E-06 | 5.20E-07   |                   |
| 200  | 1  | Surface | Total PAH     | mg/kg | 2.84E-02 | 3.11E-08  | 5.66E-08 | 2.48E-10   |                   |
| 200  | 1  | Surface | Uranium       | mg/kg | 2.73E+01 | 2.99E-05  | 2.09E-05 | 3.22E-09   |                   |
| 200  | 1  | Surface | Cesium-137    | pCi/g | 5.74E-01 | 2.41E+02  |          | 2.59E-02   | 2.64E+00          |
| 200  | 1  | Surface | Uranium-235   | pCi/g | 1.43E-01 | 6.01E+01  |          | 6.46E-03   | 6.58E-01          |
| 200  | 1  | Surface | Uranium-238   | pCi/g | 3.58E+00 | 1.50E+03  |          | 1.61E-01   | 1.65E+01          |
| 212  | 1  | Surface | Arsenic       | mg/kg | 1.44E+01 | 1.58E-05  | 6.64E-06 | 1.70E-09   |                   |
| 212  | 1  | Surface | Beryllium     | mg/kg | 8.10E-01 | 8.88E-07  | 8.70E-08 | 9.54E-11   |                   |
| 212  | 1  | Surface | Chromium      | mg/kg | 3.58E+01 | 3.92E-05  | 2.75E-05 | 4.22E-09   |                   |
| 212  | 1  | Surface | Iron          | mg/kg | 4.14E+04 | 4.54E-02  | 3.18E-02 | 4.88E-06   |                   |
| 212  | 1  | Surface | Nickel        | mg/kg | 8.69E+01 | 9.52E-05  | 5.33E-05 | 1.02E-08   |                   |
| 212  | 1  | Surface | PCB, Total    | mg/kg | 1.80E-01 | 1.97E-07  | 3.87E-07 | 3.60E-08   |                   |
| 212  | 1  | Surface | Uranium       | mg/kg | 2.30E+01 | 2.52E-05  | 1.76E-05 | 2.71E-09   |                   |
| 212  | 1  | Surface | Cesium-137    | pCi/g | 6.01E-01 | 2.52E+02  |          | 2.71E-02   | 2.77E+00          |
| 212  | 1  | Surface | Cobalt-60     | pCi/g | 8.76E-03 | 3.68E+00  |          | 3.95E-04   | 4.03E-02          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 212  | 1  | Surface | Neptunium-237     | pCi/g | 4.00E+00 | 1.68E+03  |          | 1.81E-01   | 1.84E+01          |
| 212  | 1  | Surface | Plutonium-239/240 | pCi/g | 6.71E+00 | 2.82E+03  |          | 3.03E-01   | 3.09E+01          |
| 212  | 1  | Surface | Thorium-230       | pCi/g | 2.60E+02 | 1.09E+05  |          | 1.17E+01   | 1.20E+03          |
| 212  | 1  | Surface | Uranium-235       | pCi/g | 2.09E-01 | 8.78E+01  |          | 9.43E-03   | 9.62E-01          |
| 212  | 1  | Surface | Uranium-238       | pCi/g | 3.17E+00 | 1.33E+03  |          | 1.43E-01   | 1.46E+01          |
| 213  | 1  | Surface | Antimony          | mg/kg | 8.50E-01 | 9.32E-07  | 6.52E-07 | 1.00E-10   |                   |
| 213  | 1  | Surface | Chromium          | mg/kg | 4.78E+01 | 5.24E-05  | 3.67E-05 | 5.63E-09   |                   |
| 213  | 1  | Surface | Nickel            | mg/kg | 6.67E+01 | 7.31E-05  | 4.10E-05 | 7.86E-09   |                   |
| 213  | 1  | Surface | PCB, Total        | mg/kg | 7.30E-02 | 8.00E-08  | 1.57E-07 | 1.46E-08   |                   |
| 213  | 1  | Surface | Silver            | mg/kg | 1.32E+01 | 1.44E-05  | 8.08E-06 | 1.55E-09   |                   |
| 213  | 1  | Surface | Total PAH         | mg/kg | 1.72E-01 | 1.88E-07  | 3.43E-07 | 1.50E-09   |                   |
| 213  | 1  | Surface | Uranium-238       | pCi/g | 2.33E+00 | 9.79E+02  |          | 1.05E-01   | 1.07E+01          |
| 213  | 2  | Surface | Chromium          | mg/kg | 4.48E+01 | 4.91E-05  | 3.44E-05 | 5.28E-09   |                   |
| 213  | 2  | Surface | Nickel            | mg/kg | 9.10E+01 | 9.97E-05  | 5.58E-05 | 1.07E-08   |                   |
| 213  | 2  | Surface | Silver            | mg/kg | 1.13E+01 | 1.23E-05  | 6.91E-06 | 1.33E-09   |                   |
| 214  | 1  | Surface | Antimony          | mg/kg | 5.70E-01 | 6.25E-07  | 4.37E-07 | 6.71E-11   |                   |
| 215  | 1  | Surface | Antimony          | mg/kg | 6.80E-01 | 7.45E-07  | 5.22E-07 | 8.01E-11   |                   |
| 215  | 1  | Surface | Chromium          | mg/kg | 5.73E+01 | 6.28E-05  | 4.40E-05 | 6.75E-09   |                   |
| 215  | 1  | Surface | Iron              | mg/kg | 3.87E+04 | 4.24E-02  | 2.97E-02 | 4.56E-06   |                   |
| 215  | 1  | Surface | Nickel            | mg/kg | 7.32E+01 | 8.02E-05  | 4.49E-05 | 8.62E-09   |                   |
| 215  | 1  | Surface | Total PAH         | mg/kg | 8.09E-02 | 8.86E-08  | 1.61E-07 | 7.07E-10   |                   |
| 216  | 1  | Surface | Chromium          | mg/kg | 2.38E+01 | 2.61E-05  | 1.83E-05 | 2.80E-09   |                   |
| 216  | 1  | Surface | Total PAH         | mg/kg | 1.49E-01 | 1.64E-07  | 2.98E-07 | 1.31E-09   |                   |
| 216  | 1  | Surface | Uranium-238       | pCi/g | 1.33E+00 | 5.59E+02  |          | 6.00E-02   | 6.12E+00          |
| 217  | 1  | Surface | Chromium          | mg/kg | 8.58E+01 | 9.40E-05  | 6.58E-05 | 1.01E-08   |                   |
| 217  | 1  | Surface | Cobalt            | mg/kg | 1.96E+01 | 2.14E-05  | 1.50E-05 | 2.31E-09   |                   |
| 217  | 1  | Surface | Manganese         | mg/kg | 7.70E+02 | 8.44E-04  | 4.72E-04 | 9.07E-08   |                   |
| 217  | 1  | Surface | Nickel            | mg/kg | 8.54E+01 | 9.36E-05  | 5.24E-05 | 1.01E-08   |                   |
| 217  | 1  | Surface | Silver            | mg/kg | 1.35E+01 | 1.47E-05  | 8.25E-06 | 1.58E-09   |                   |
| 217  | 1  | Surface | Uranium-238       | pCi/g | 1.15E+00 | 4.85E+02  |          | 5.21E-02   | 5.31E+00          |
| 217  | 2  | Surface | Antimony          | mg/kg | 1.70E+00 | 1.86E-06  | 1.30E-06 | 2.00E-10   |                   |
| 217  | 2  | Surface | Arsenic           | mg/kg | 1.12E+01 | 1.22E-05  | 5.14E-06 | 1.31E-09   |                   |
| 217  | 2  | Surface | Chromium          | mg/kg | 1.02E+02 | 1.11E-04  | 7.79E-05 | 1.20E-08   |                   |
| 217  | 2  | Surface | Cobalt            | mg/kg | 1.74E+01 | 1.91E-05  | 1.33E-05 | 2.05E-09   |                   |
| 217  | 2  | Surface | Iron              | mg/kg | 3.09E+04 | 3.39E-02  | 2.37E-02 | 3.64E-06   |                   |
| 217  | 2  | Surface | Manganese         | mg/kg | 8.44E+02 | 9.24E-04  | 5.18E-04 | 9.94E-08   |                   |
| 217  | 2  | Surface | Mercury           | mg/kg | 8.59E+00 | 9.41E-06  | 6.59E-06 | 3.04E-05   |                   |
| 217  | 2  | Surface | Nickel            | mg/kg | 9.74E+01 | 1.07E-04  | 5.98E-05 | 1.15E-08   |                   |
| 217  | 2  | Surface | Silver            | mg/kg | 1.61E+01 | 1.76E-05  | 9.87E-06 | 1.90E-09   |                   |
| 217  | 2  | Surface | Total PAH         | mg/kg | 5.05E-01 | 5.53E-07  | 1.01E-06 | 4.42E-09   |                   |
| 221  | 1  | Surface | Barium            | mg/kg | 2.21E+02 | 2.42E-04  | 1.70E-04 | 2.60E-08   |                   |
| 221  | 1  | Surface | Chromium          | mg/kg | 7.01E+01 | 7.68E-05  | 5.38E-05 | 8.26E-09   |                   |
| 221  | 1  | Surface | Iron              | mg/kg | 1.90E+04 | 2.08E-02  | 1.46E-02 | 2.24E-06   |                   |
| 221  | 1  | Surface | Nickel            | mg/kg | 7.93E+01 | 8.69E-05  | 4.86E-05 | 9.34E-09   |                   |
| 221  | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 5.48E-07  | 1.07E-06 | 1.00E-07   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 221  | 1  | Surface | Total PAH     | mg/kg | 1.02E+00 | 1.12E-06  | 2.04E-06 | 8.94E-09   |                   |
| 221  | 1  | Surface | Uranium       | mg/kg | 1.64E+01 | 1.79E-05  | 1.25E-05 | 1.93E-09   |                   |
| 221  | 1  | Surface | Uranium-238   | pCi/g | 1.93E+00 | 8.11E+02  |          | 8.71E-02   | 8.88E+00          |
| 222  | 1  | Surface | Chromium      | mg/kg | 4.73E+01 | 5.18E-05  | 3.63E-05 | 5.57E-09   |                   |
| 222  | 1  | Surface | Nickel        | mg/kg | 9.19E+01 | 1.01E-04  | 5.64E-05 | 1.08E-08   |                   |
| 222  | 1  | Surface | PCB, Total    | mg/kg | 1.40E+00 | 1.53E-06  | 3.01E-06 | 2.80E-07   |                   |
| 222  | 1  | Surface | Total PAH     | mg/kg | 1.77E-01 | 1.94E-07  | 3.53E-07 | 1.55E-09   |                   |
| 222  | 1  | Surface | Uranium       | mg/kg | 2.80E+01 | 3.07E-05  | 2.15E-05 | 3.30E-09   |                   |
| 222  | 1  | Surface | Uranium-234   | pCi/g | 1.04E+01 | 4.37E+03  |          | 4.69E-01   | 4.79E+01          |
| 222  | 1  | Surface | Uranium-235   | pCi/g | 7.10E-01 | 2.98E+02  |          | 3.21E-02   | 3.27E+00          |
| 222  | 1  | Surface | Uranium-238   | pCi/g | 1.96E+01 | 8.23E+03  |          | 8.85E-01   | 9.02E+01          |
| 227  | 1  | Surface | Beryllium     | mg/kg | 5.52E-01 | 6.05E-07  | 5.93E-08 | 6.50E-11   |                   |
| 227  | 1  | Surface | Chromium      | mg/kg | 4.71E+01 | 5.17E-05  | 3.62E-05 | 5.55E-09   |                   |
| 227  | 1  | Surface | Nickel        | mg/kg | 2.03E+02 | 2.22E-04  | 1.25E-04 | 2.39E-08   |                   |
| 227  | 1  | Surface | PCB, Total    | mg/kg | 4.14E+00 | 4.54E-06  | 8.90E-06 | 8.29E-07   |                   |
| 227  | 1  | Surface | Total PAH     | mg/kg | 3.38E-01 | 3.70E-07  | 6.74E-07 | 2.95E-09   |                   |
| 227  | 1  | Surface | Uranium       | mg/kg | 1.02E+02 | 1.11E-04  | 7.79E-05 | 1.20E-08   |                   |
| 227  | 1  | Surface | Cesium-137    | pCi/g | 1.90E-01 | 7.98E+01  |          | 8.58E-03   | 8.75E-01          |
| 227  | 1  | Surface | Cobalt-60     | pCi/g | 1.53E-02 | 6.43E+00  |          | 6.91E-04   | 7.04E-02          |
| 227  | 1  | Surface | Neptunium-237 | pCi/g | 9.05E-01 | 3.80E+02  |          | 4.09E-02   | 4.17E+00          |
| 227  | 1  | Surface | Technetium-99 | pCi/g | 4.77E+01 | 2.00E+04  |          | 2.15E+00   | 2.20E+02          |
| 227  | 1  | Surface | Uranium-234   | pCi/g | 1.54E+01 | 6.48E+03  |          | 6.97E-01   | 7.11E+01          |
| 227  | 1  | Surface | Uranium-235   | pCi/g | 1.49E+00 | 6.26E+02  |          | 6.73E-02   | 6.86E+00          |
| 227  | 1  | Surface | Uranium-238   | pCi/g | 4.63E+01 | 1.94E+04  |          | 2.09E+00   | 2.13E+02          |
| 227  | 2  | Surface | Beryllium     | mg/kg | 5.32E-01 | 5.83E-07  | 5.71E-08 | 6.27E-11   |                   |
| 227  | 2  | Surface | Chromium      | mg/kg | 5.63E+01 | 6.17E-05  | 4.32E-05 | 6.63E-09   |                   |
| 227  | 2  | Surface | Cobalt        | mg/kg | 8.99E+00 | 9.85E-06  | 6.89E-06 | 1.06E-09   |                   |
| 227  | 2  | Surface | Mercury       | mg/kg | 8.41E+00 | 9.22E-06  | 6.45E-06 | 2.97E-05   |                   |
| 227  | 2  | Surface | Nickel        | mg/kg | 1.25E+02 | 1.37E-04  | 7.67E-05 | 1.47E-08   |                   |
| 227  | 2  | Surface | PCB, Total    | mg/kg | 5.82E+00 | 6.38E-06  | 1.25E-05 | 1.16E-06   |                   |
| 227  | 2  | Surface | Total PAH     | mg/kg | 1.16E-01 | 1.27E-07  | 2.31E-07 | 1.01E-09   |                   |
| 227  | 2  | Surface | Uranium       | mg/kg | 1.51E+01 | 1.65E-05  | 1.15E-05 | 1.77E-09   |                   |
| 227  | 2  | Surface | Cobalt-60     | pCi/g | 1.37E-02 | 5.75E+00  |          | 6.18E-04   | 6.31E-02          |
| 227  | 2  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 6.61E+02  |          | 7.10E-02   | 7.24E+00          |
| 228  | 1  | Surface | Antimony      | mg/kg | 6.30E-01 | 6.90E-07  | 4.83E-07 | 7.42E-11   |                   |
| 228  | 1  | Surface | Cadmium       | mg/kg | 3.90E+00 | 4.27E-06  | 5.98E-08 | 4.59E-10   |                   |
| 228  | 1  | Surface | Chromium      | mg/kg | 1.89E+02 | 2.07E-04  | 1.45E-04 | 2.23E-08   |                   |
| 228  | 1  | Surface | Mercury       | mg/kg | 9.37E+00 | 1.03E-05  | 7.19E-06 | 3.31E-05   |                   |
| 228  | 1  | Surface | Nickel        | mg/kg | 7.92E+01 | 8.68E-05  | 4.86E-05 | 9.32E-09   |                   |
| 228  | 1  | Surface | Silver        | mg/kg | 1.16E+01 | 1.27E-05  | 7.14E-06 | 1.37E-09   |                   |
| 228  | 1  | Surface | Total PAH     | mg/kg | 6.69E-02 | 7.33E-08  | 1.33E-07 | 5.85E-10   |                   |
| 228  | 1  | Surface | Uranium       | mg/kg | 1.51E+01 | 1.66E-05  | 1.16E-05 | 1.78E-09   |                   |
| 228  | 1  | Surface | Neptunium-237 | pCi/g | 8.00E-01 | 3.36E+02  |          | 3.61E-02   | 3.68E+00          |
| 228  | 1  | Surface | Uranium-235   | pCi/g | 1.78E-01 | 7.48E+01  |          | 8.04E-03   | 8.19E-01          |
| 228  | 1  | Surface | Uranium-238   | pCi/g | 3.77E+00 | 1.58E+03  |          | 1.70E-01   | 1.74E+01          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 76   | 1  | Surface | Barium            | mg/kg | 2.69E+02 | 2.95E-04  | 2.06E-04 | 3.17E-08   |                   |
| 76   | 1  | Surface | PCB, Total        | mg/kg | 2.60E-01 | 2.85E-07  | 5.58E-07 | 5.20E-08   |                   |
| 76   | 1  | Surface | Total PAH         | mg/kg | 1.76E+00 | 1.93E-06  | 3.51E-06 | 1.54E-08   |                   |
| 76   | 1  | Surface | Uranium-238       | pCi/g | 1.45E+00 | 6.09E+02  |          | 6.55E-02   | 6.67E+00          |
| 165  | 1  | Surface | Antimony          | mg/kg | 2.20E+00 | 2.41E-06  | 1.69E-06 | 2.59E-10   |                   |
| 165  | 1  | Surface | Arsenic           | mg/kg | 6.35E+01 | 6.96E-05  | 2.92E-05 | 7.48E-09   |                   |
| 165  | 1  | Surface | Barium            | mg/kg | 5.84E+02 | 6.40E-04  | 4.48E-04 | 6.88E-08   |                   |
| 165  | 1  | Surface | Beryllium         | mg/kg | 6.82E-01 | 7.47E-07  | 7.32E-08 | 8.03E-11   |                   |
| 165  | 1  | Surface | Chromium          | mg/kg | 3.74E+01 | 4.10E-05  | 2.87E-05 | 4.40E-09   |                   |
| 165  | 1  | Surface | Mercury           | mg/kg | 3.78E-01 | 4.14E-07  | 2.90E-07 | 1.34E-06   |                   |
| 165  | 1  | Surface | Naphthalene       | mg/kg | 1.61E+00 | 1.77E-06  | 6.18E-06 | 6.37E-06   |                   |
| 165  | 1  | Surface | Nickel            | mg/kg | 3.47E+01 | 3.80E-05  | 2.13E-05 | 4.09E-09   |                   |
| 165  | 1  | Surface | PCB, Total        | mg/kg | 8.27E+00 | 9.06E-06  | 1.78E-05 | 1.65E-06   |                   |
| 165  | 1  | Surface | Silver            | mg/kg | 3.09E+01 | 3.39E-05  | 1.90E-05 | 3.64E-09   |                   |
| 165  | 1  | Surface | Total PAH         | mg/kg | 1.87E+00 | 2.05E-06  | 3.73E-06 | 1.63E-08   |                   |
| 165  | 1  | Surface | Uranium           | mg/kg | 1.08E+02 | 1.18E-04  | 8.25E-05 | 1.27E-08   |                   |
| 165  | 1  | Surface | Cesium-137        | pCi/g | 3.47E+00 | 1.46E+03  |          | 1.57E-01   | 1.60E+01          |
| 165  | 1  | Surface | Neptunium-237     | pCi/g | 4.26E-01 | 1.79E+02  |          | 1.92E-02   | 1.96E+00          |
| 165  | 1  | Surface | Plutonium-239/240 | pCi/g | 2.81E+00 | 1.18E+03  |          | 1.27E-01   | 1.29E+01          |
| 165  | 1  | Surface | Thorium-230       | pCi/g | 6.02E+00 | 2.53E+03  |          | 2.72E-01   | 2.77E+01          |
| 165  | 1  | Surface | Uranium-234       | pCi/g | 5.76E+01 | 2.42E+04  |          | 2.60E+00   | 2.65E+02          |
| 165  | 1  | Surface | Uranium-235       | pCi/g | 2.05E+00 | 8.59E+02  |          | 9.23E-02   | 9.41E+00          |
| 165  | 1  | Surface | Uranium-238       | pCi/g | 6.41E+01 | 2.69E+04  |          | 2.89E+00   | 2.95E+02          |
| 170  | 1  | Surface | Neptunium-237     | pCi/g | 1.15E-01 | 4.83E+01  |          | 5.19E-03   | 5.29E-01          |
| 170  | 1  | Surface | Uranium-238       | pCi/g | 1.53E+00 | 6.43E+02  |          | 6.91E-02   | 7.04E+00          |
| 158  | 1  | Surface | Antimony          | mg/kg | 5.23E-01 | 5.73E-07  | 4.01E-07 | 6.16E-11   |                   |
| 158  | 1  | Surface | Arsenic           | mg/kg | 1.01E+01 | 1.11E-05  | 4.66E-06 | 1.19E-09   |                   |
| 158  | 1  | Surface | Barium            | mg/kg | 2.19E+02 | 2.40E-04  | 1.68E-04 | 2.58E-08   |                   |
| 158  | 1  | Surface | Chromium          | mg/kg | 6.07E+01 | 6.66E-05  | 4.66E-05 | 7.15E-09   |                   |
| 158  | 1  | Surface | Cobalt            | mg/kg | 1.62E+01 | 1.78E-05  | 1.24E-05 | 1.91E-09   |                   |
| 158  | 1  | Surface | Manganese         | mg/kg | 9.91E+02 | 1.09E-03  | 6.08E-04 | 1.17E-07   |                   |
| 158  | 1  | Surface | Mercury           | mg/kg | 1.05E+01 | 1.15E-05  | 8.02E-06 | 3.70E-05   |                   |
| 158  | 1  | Surface | Nickel            | mg/kg | 7.28E+01 | 7.98E-05  | 4.47E-05 | 8.58E-09   |                   |
| 158  | 1  | Surface | Thallium          | mg/kg | 3.12E-01 | 3.42E-07  | 2.39E-07 | 3.68E-11   |                   |
| 158  | 1  | Surface | Total PAH         | mg/kg | 3.69E-01 | 4.04E-07  | 7.36E-07 | 3.23E-09   |                   |
| 158  | 1  | Surface | Uranium           | mg/kg | 2.03E+01 | 2.22E-05  | 1.56E-05 | 2.39E-09   |                   |
| 158  | 1  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 6.85E+01  |          | 7.36E-03   | 7.50E-01          |
| 158  | 1  | Surface | Uranium-238       | pCi/g | 3.79E+00 | 1.59E+03  |          | 1.71E-01   | 1.74E+01          |
| 169  | 1  | Surface | Aluminum          | mg/kg | 1.42E+04 | 1.56E-02  | 1.09E-02 | 1.67E-06   |                   |
| 169  | 1  | Surface | Antimony          | mg/kg | 1.30E+00 | 1.42E-06  | 9.97E-07 | 1.53E-10   |                   |
| 169  | 1  | Surface | Arsenic           | mg/kg | 2.03E+01 | 2.22E-05  | 9.34E-06 | 2.39E-09   |                   |
| 169  | 1  | Surface | Beryllium         | mg/kg | 8.00E-01 | 8.77E-07  | 8.59E-08 | 9.42E-11   |                   |
| 169  | 1  | Surface | Chromium          | mg/kg | 2.15E+02 | 2.36E-04  | 1.65E-04 | 2.53E-08   |                   |
| 169  | 1  | Surface | Copper            | mg/kg | 3.74E+02 | 4.10E-04  | 2.87E-04 | 4.41E-08   |                   |
| 169  | 1  | Surface | Iron              | mg/kg | 4.16E+04 | 4.55E-02  | 3.19E-02 | 4.90E-06   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 169  | 1  | Surface | Mercury     | mg/kg | 7.87E+00 | 8.62E-06  | 6.04E-06 | 2.78E-05   |                   |
| 169  | 1  | Surface | Nickel      | mg/kg | 5.49E+02 | 6.01E-04  | 3.37E-04 | 6.46E-08   |                   |
| 169  | 1  | Surface | PCB, Total  | mg/kg | 1.00E+01 | 1.10E-05  | 2.15E-05 | 2.00E-06   |                   |
| 169  | 1  | Surface | Thallium    | mg/kg | 4.60E-01 | 5.04E-07  | 3.53E-07 | 5.42E-11   |                   |
| 169  | 1  | Surface | Total PAH   | mg/kg | 4.59E+00 | 5.03E-06  | 9.15E-06 | 4.01E-08   |                   |
| 169  | 1  | Surface | Uranium     | mg/kg | 5.03E+01 | 5.51E-05  | 3.86E-05 | 5.93E-09   |                   |
| 169  | 1  | Surface | Uranium-234 | pCi/g | 6.55E+00 | 2.75E+03  |          | 2.96E-01   | 3.01E+01          |
| 169  | 1  | Surface | Uranium-235 | pCi/g | 4.60E-01 | 1.93E+02  |          | 2.08E-02   | 2.12E+00          |
| 169  | 1  | Surface | Uranium-238 | pCi/g | 8.12E+00 | 3.41E+03  |          | 3.67E-01   | 3.74E+01          |
| 19   | 1  | Surface | Beryllium   | mg/kg | 1.10E+00 | 1.21E-06  | 1.18E-07 | 1.30E-10   |                   |
| 19   | 1  | Surface | Cadmium     | mg/kg | 1.20E+00 | 1.32E-06  | 1.84E-08 | 1.41E-10   |                   |
| 19   | 1  | Surface | Thallium    | mg/kg | 9.80E-01 | 1.07E-06  | 7.52E-07 | 1.15E-10   |                   |
| 19   | 1  | Surface | Total PAH   | mg/kg | 5.23E+00 | 5.73E-06  | 1.04E-05 | 4.57E-08   |                   |
| 138  | 1  | Surface | Antimony    | mg/kg | 5.39E+00 | 5.91E-06  | 4.14E-06 | 6.35E-10   |                   |
| 138  | 1  | Surface | Arsenic     | mg/kg | 1.06E+01 | 1.16E-05  | 4.89E-06 | 1.25E-09   |                   |
| 138  | 1  | Surface | Cadmium     | mg/kg | 5.42E+00 | 5.94E-06  | 8.32E-08 | 6.38E-10   |                   |
| 138  | 1  | Surface | Chromium    | mg/kg | 5.39E+01 | 5.90E-05  | 4.13E-05 | 6.34E-09   |                   |
| 138  | 1  | Surface | Mercury     | mg/kg | 1.30E+01 | 1.42E-05  | 9.96E-06 | 4.59E-05   |                   |
| 138  | 1  | Surface | Nickel      | mg/kg | 7.04E+01 | 7.71E-05  | 4.32E-05 | 8.29E-09   |                   |
| 138  | 1  | Surface | PCB, Total  | mg/kg | 5.00E-01 | 5.48E-07  | 1.07E-06 | 1.00E-07   |                   |
| 138  | 1  | Surface | Silver      | mg/kg | 1.01E+01 | 1.11E-05  | 6.19E-06 | 1.19E-09   |                   |
| 138  | 1  | Surface | Total PAH   | mg/kg | 9.74E-02 | 1.07E-07  | 1.94E-07 | 8.52E-10   |                   |
| 138  | 2  | Surface | Nickel      | mg/kg | 7.99E+01 | 8.75E-05  | 4.90E-05 | 9.41E-09   |                   |
| 138  | 2  | Surface | PCB, Total  | mg/kg | 9.20E-02 | 1.01E-07  | 1.98E-07 | 1.84E-08   |                   |
| 138  | 2  | Surface | Silver      | mg/kg | 1.04E+01 | 1.14E-05  | 6.41E-06 | 1.23E-09   |                   |
| 138  | 2  | Surface | Total PAH   | mg/kg | 3.84E-02 | 4.21E-08  | 7.66E-08 | 3.36E-10   |                   |
| 180  | 1  | Surface | Antimony    | mg/kg | 5.80E-01 | 6.36E-07  | 4.45E-07 | 6.83E-11   |                   |
| 180  | 1  | Surface | Arsenic     | mg/kg | 7.48E+01 | 8.20E-05  | 3.44E-05 | 8.81E-09   |                   |
| 180  | 1  | Surface | Chromium    | mg/kg | 5.54E+01 | 6.08E-05  | 4.25E-05 | 6.53E-09   |                   |
| 180  | 1  | Surface | Mercury     | mg/kg | 8.28E+00 | 9.07E-06  | 6.35E-06 | 2.93E-05   |                   |
| 180  | 1  | Surface | Nickel      | mg/kg | 8.77E+01 | 9.61E-05  | 5.38E-05 | 1.03E-08   |                   |
| 180  | 2  | Surface | Antimony    | mg/kg | 4.58E-01 | 5.02E-07  | 3.51E-07 | 5.39E-11   |                   |
| 180  | 2  | Surface | Arsenic     | mg/kg | 1.27E+01 | 1.39E-05  | 5.82E-06 | 1.49E-09   |                   |
| 180  | 2  | Surface | Chromium    | mg/kg | 4.46E+01 | 4.89E-05  | 3.42E-05 | 5.26E-09   |                   |
| 180  | 2  | Surface | Nickel      | mg/kg | 8.42E+01 | 9.22E-05  | 5.16E-05 | 9.91E-09   |                   |
| 180  | 2  | Surface | Total PAH   | mg/kg | 9.19E-02 | 1.01E-07  | 1.83E-07 | 8.03E-10   |                   |
| 180  | 3  | Surface | Arsenic     | mg/kg | 1.34E+01 | 1.46E-05  | 6.14E-06 | 1.57E-09   |                   |
| 180  | 3  | Surface | Chromium    | mg/kg | 4.69E+01 | 5.14E-05  | 3.60E-05 | 5.53E-09   |                   |
| 180  | 3  | Surface | Nickel      | mg/kg | 6.77E+01 | 7.42E-05  | 4.16E-05 | 7.98E-09   |                   |
| 180  | 3  | Surface | Silver      | mg/kg | 1.14E+01 | 1.25E-05  | 7.00E-06 | 1.34E-09   |                   |
| 180  | 4  | Surface | Arsenic     | mg/kg | 1.15E+01 | 1.26E-05  | 5.31E-06 | 1.36E-09   |                   |
| 180  | 4  | Surface | Barium      | mg/kg | 2.13E+02 | 2.33E-04  | 1.63E-04 | 2.51E-08   |                   |
| 180  | 4  | Surface | Beryllium   | mg/kg | 1.60E+00 | 1.75E-06  | 1.72E-07 | 1.88E-10   |                   |
| 180  | 4  | Surface | Chromium    | mg/kg | 6.00E+01 | 6.58E-05  | 4.60E-05 | 7.07E-09   |                   |
| 180  | 4  | Surface | Iron        | mg/kg | 1.54E+04 | 1.68E-02  | 1.18E-02 | 1.81E-06   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC      | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-----------|-------|----------|-----------|----------|------------|-------------------|
| 180  | 4  | Surface | Manganese | mg/kg | 7.09E+02 | 7.77E-04  | 4.35E-04 | 8.35E-08   |                   |
| 180  | 4  | Surface | Nickel    | mg/kg | 6.46E+01 | 7.08E-05  | 3.97E-05 | 7.61E-09   |                   |
| 180  | 4  | Surface | Silver    | mg/kg | 9.68E+00 | 1.06E-05  | 5.94E-06 | 1.14E-09   |                   |
| 180  | 4  | Surface | Total PAH | mg/kg | 2.15E-02 | 2.36E-08  | 4.29E-08 | 1.88E-10   |                   |
| 180  | 4  | Surface | Vanadium  | mg/kg | 4.85E+01 | 5.32E-05  | 1.93E-05 | 5.71E-09   |                   |
| 181  | 1  | Surface | Chromium  | mg/kg | 2.29E+01 | 2.50E-05  | 1.75E-05 | 2.69E-09   |                   |
| 181  | 1  | Surface | Thallium  | mg/kg | 3.50E+00 | 3.84E-06  | 2.68E-06 | 4.12E-10   |                   |
| 181  | 1  | Surface | Total PAH | mg/kg | 3.43E-02 | 3.76E-08  | 6.84E-08 | 3.00E-10   |                   |
| 195  | 1  | Surface | Chromium  | mg/kg | 6.33E+01 | 6.93E-05  | 4.85E-05 | 7.45E-09   |                   |
| 195  | 1  | Surface | Nickel    | mg/kg | 7.02E+01 | 7.69E-05  | 4.31E-05 | 8.27E-09   |                   |
| 195  | 1  | Surface | Silver    | mg/kg | 9.37E+00 | 1.03E-05  | 5.75E-06 | 1.10E-09   |                   |
| 195  | 2  | Surface | Chromium  | mg/kg | 4.52E+01 | 4.95E-05  | 3.47E-05 | 5.32E-09   |                   |
| 195  | 2  | Surface | Silver    | mg/kg | 9.48E+00 | 1.04E-05  | 5.82E-06 | 1.12E-09   |                   |
| 195  | 2  | Surface | Total PAH | mg/kg | 2.68E-02 | 2.94E-08  | 5.35E-08 | 2.34E-10   |                   |
| 195  | 3  | Surface | Chromium  | mg/kg | 5.03E+01 | 5.51E-05  | 3.86E-05 | 5.92E-09   |                   |
| 195  | 3  | Surface | Nickel    | mg/kg | 5.22E+01 | 5.72E-05  | 3.20E-05 | 6.14E-09   |                   |
| 195  | 3  | Surface | Total PAH | mg/kg | 4.06E-02 | 4.45E-08  | 8.10E-08 | 3.55E-10   |                   |
| 195  | 4  | Surface | Chromium  | mg/kg | 5.29E+01 | 5.80E-05  | 4.06E-05 | 6.23E-09   |                   |
| 195  | 4  | Surface | Nickel    | mg/kg | 6.23E+01 | 6.83E-05  | 3.82E-05 | 7.34E-09   |                   |
| 195  | 5  | Surface | Chromium  | mg/kg | 5.74E+01 | 6.29E-05  | 4.40E-05 | 6.76E-09   |                   |
| 195  | 5  | Surface | Nickel    | mg/kg | 8.11E+01 | 8.89E-05  | 4.98E-05 | 9.55E-09   |                   |
| 195  | 5  | Surface | Total PAH | mg/kg | 2.40E-02 | 2.63E-08  | 4.79E-08 | 2.10E-10   |                   |
| 195  | 6  | Surface | Chromium  | mg/kg | 4.45E+01 | 4.88E-05  | 3.42E-05 | 5.25E-09   |                   |
| 195  | 6  | Surface | Nickel    | mg/kg | 8.71E+01 | 9.55E-05  | 5.35E-05 | 1.03E-08   |                   |
| 195  | 6  | Surface | Total PAH | mg/kg | 2.48E-01 | 2.71E-07  | 4.94E-07 | 2.17E-09   |                   |
| 195  | 7  | Surface | Chromium  | mg/kg | 4.93E+01 | 5.40E-05  | 3.78E-05 | 5.80E-09   |                   |
| 195  | 7  | Surface | Silver    | mg/kg | 8.06E+00 | 8.83E-06  | 4.95E-06 | 9.49E-10   |                   |
| 195  | 8  | Surface | Arsenic   | mg/kg | 1.16E+01 | 1.27E-05  | 5.32E-06 | 1.36E-09   |                   |
| 195  | 8  | Surface | Beryllium | mg/kg | 7.40E-01 | 8.11E-07  | 7.95E-08 | 8.72E-11   |                   |
| 195  | 8  | Surface | Chromium  | mg/kg | 6.79E+01 | 7.44E-05  | 5.21E-05 | 8.00E-09   |                   |
| 195  | 8  | Surface | Cobalt    | mg/kg | 1.82E+01 | 1.99E-05  | 1.40E-05 | 2.14E-09   |                   |
| 195  | 8  | Surface | Nickel    | mg/kg | 7.01E+01 | 7.68E-05  | 4.30E-05 | 8.26E-09   |                   |
| 195  | 8  | Surface | Total PAH | mg/kg | 2.16E-01 | 2.36E-07  | 4.30E-07 | 1.88E-09   |                   |
| 195  | 8  | Surface | Vanadium  | mg/kg | 4.04E+01 | 4.43E-05  | 1.61E-05 | 4.76E-09   |                   |
| 195  | 9  | Surface | Chromium  | mg/kg | 6.08E+01 | 6.66E-05  | 4.66E-05 | 7.16E-09   |                   |
| 195  | 9  | Surface | Nickel    | mg/kg | 7.93E+01 | 8.69E-05  | 4.86E-05 | 9.34E-09   |                   |
| 195  | 10 | Surface | Chromium  | mg/kg | 4.51E+01 | 4.94E-05  | 3.46E-05 | 5.31E-09   |                   |
| 195  | 10 | Surface | Nickel    | mg/kg | 7.40E+01 | 8.11E-05  | 4.54E-05 | 8.72E-09   |                   |
| 195  | 10 | Surface | Silver    | mg/kg | 1.31E+01 | 1.44E-05  | 8.05E-06 | 1.54E-09   |                   |
| 195  | 11 | Surface | Aluminum  | mg/kg | 2.81E+04 | 3.08E-02  | 2.16E-02 | 3.31E-06   |                   |
| 195  | 11 | Surface | Arsenic   | mg/kg | 1.35E+01 | 1.48E-05  | 6.20E-06 | 1.59E-09   |                   |
| 195  | 11 | Surface | Barium    | mg/kg | 4.53E+02 | 4.96E-04  | 3.48E-04 | 5.34E-08   |                   |
| 195  | 11 | Surface | Chromium  | mg/kg | 5.05E+01 | 5.53E-05  | 3.87E-05 | 5.95E-09   |                   |
| 195  | 11 | Surface | Cobalt    | mg/kg | 2.77E+01 | 3.04E-05  | 2.12E-05 | 3.26E-09   |                   |
| 195  | 11 | Surface | Iron      | mg/kg | 1.97E+04 | 2.16E-02  | 1.51E-02 | 2.32E-06   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 195  | 11 | Surface | Nickel        | mg/kg | 6.77E+01 | 7.42E-05  | 4.15E-05 | 7.97E-09   |                   |
| 195  | 11 | Surface | Thallium      | mg/kg | 6.60E-01 | 7.23E-07  | 5.06E-07 | 7.77E-11   |                   |
| 195  | 11 | Surface | Vanadium      | mg/kg | 7.97E+01 | 8.73E-05  | 3.18E-05 | 9.39E-09   |                   |
| 195  | 12 | Surface | Beryllium     | mg/kg | 7.50E-01 | 8.22E-07  | 8.05E-08 | 8.83E-11   |                   |
| 195  | 12 | Surface | Chromium      | mg/kg | 7.04E+01 | 7.71E-05  | 5.40E-05 | 8.29E-09   |                   |
| 195  | 12 | Surface | Nickel        | mg/kg | 6.78E+01 | 7.42E-05  | 4.16E-05 | 7.98E-09   |                   |
| 195  | 13 | Surface | Chromium      | mg/kg | 6.55E+01 | 7.18E-05  | 5.03E-05 | 7.72E-09   |                   |
| 195  | 13 | Surface | Nickel        | mg/kg | 6.91E+01 | 7.57E-05  | 4.24E-05 | 8.14E-09   |                   |
| 195  | 14 | Surface | Chromium      | mg/kg | 5.94E+01 | 6.51E-05  | 4.56E-05 | 7.00E-09   |                   |
| 195  | 14 | Surface | Nickel        | mg/kg | 7.04E+01 | 7.71E-05  | 4.32E-05 | 8.29E-09   |                   |
| 195  | 15 | Surface | Chromium      | mg/kg | 4.82E+01 | 5.28E-05  | 3.70E-05 | 5.67E-09   |                   |
| 195  | 16 | Surface | Chromium      | mg/kg | 4.45E+01 | 4.87E-05  | 3.41E-05 | 5.24E-09   |                   |
| 195  | 16 | Surface | Nickel        | mg/kg | 8.16E+01 | 8.94E-05  | 5.01E-05 | 9.61E-09   |                   |
| 195  | 17 | Surface | Chromium      | mg/kg | 8.22E+01 | 9.00E-05  | 6.30E-05 | 9.68E-09   |                   |
| 195  | 17 | Surface | Mercury       | mg/kg | 4.17E-01 | 4.57E-07  | 3.20E-07 | 1.47E-06   |                   |
| 195  | 17 | Surface | Nickel        | mg/kg | 5.93E+01 | 6.50E-05  | 3.64E-05 | 6.99E-09   |                   |
| 195  | 17 | Surface | PCB, Total    | mg/kg | 7.40E-01 | 8.11E-07  | 1.59E-06 | 1.48E-07   |                   |
| 195  | 17 | Surface | Silver        | mg/kg | 1.01E+01 | 1.11E-05  | 6.22E-06 | 1.19E-09   |                   |
| 195  | 17 | Surface | Thallium      | mg/kg | 5.40E-01 | 5.92E-07  | 4.14E-07 | 6.36E-11   |                   |
| 195  | 17 | Surface | Total PAH     | mg/kg | 3.16E-01 | 3.46E-07  | 6.30E-07 | 2.76E-09   |                   |
| 195  | 17 | Surface | Uranium-235   | pCi/g | 1.32E-01 | 5.54E+01  |          | 5.96E-03   | 6.08E-01          |
| 195  | 17 | Surface | Uranium-238   | pCi/g | 2.48E+00 | 1.04E+03  |          | 1.12E-01   | 1.14E+01          |
| 486  | 1  | Surface | Cesium-137    | pCi/g | 1.71E+00 | 7.18E+02  |          | 7.72E-02   | 7.87E+00          |
| 487  | 1  | Surface | Cesium-137    | pCi/g | 1.38E+00 | 5.80E+02  |          | 6.23E-02   | 6.35E+00          |
| 492  | 1  | Surface | Arsenic       | mg/kg | 1.47E+01 | 1.61E-05  | 6.77E-06 | 1.73E-09   |                   |
| 492  | 1  | Surface | Beryllium     | mg/kg | 1.04E+01 | 1.14E-05  | 1.12E-06 | 1.23E-09   |                   |
| 492  | 1  | Surface | Cadmium       | mg/kg | 3.14E+00 | 3.44E-06  | 4.82E-08 | 3.70E-10   |                   |
| 492  | 1  | Surface | Chromium      | mg/kg | 1.04E+03 | 1.14E-03  | 7.98E-04 | 1.23E-07   |                   |
| 492  | 1  | Surface | PCB, Total    | mg/kg | 4.41E+01 | 4.83E-05  | 9.47E-05 | 8.82E-06   |                   |
| 492  | 1  | Surface | Uranium       | mg/kg | 1.77E+03 | 1.94E-03  | 1.36E-03 | 2.08E-07   |                   |
| 492  | 1  | Surface | Vanadium      | mg/kg | 4.32E+01 | 4.73E-05  | 1.72E-05 | 5.09E-09   |                   |
| 492  | 1  | Surface | Cobalt-60     | pCi/g | 9.63E-03 | 4.04E+00  |          | 4.35E-04   | 4.43E-02          |
| 492  | 1  | Surface | Neptunium-237 | pCi/g | 2.09E-01 | 8.78E+01  |          | 9.43E-03   | 9.62E-01          |
| 492  | 1  | Surface | Uranium-234   | pCi/g | 5.39E+01 | 2.26E+04  |          | 2.43E+00   | 2.48E+02          |
| 492  | 1  | Surface | Uranium-235   | pCi/g | 5.72E+00 | 2.40E+03  |          | 2.58E-01   | 2.63E+01          |
| 492  | 1  | Surface | Uranium-238   | pCi/g | 3.83E+02 | 1.61E+05  |          | 1.73E+01   | 1.76E+03          |
| 493  | 1  | Surface | Aluminum      | mg/kg | 1.44E+04 | 1.58E-02  | 1.10E-02 | 1.70E-06   |                   |
| 493  | 1  | Surface | Barium        | mg/kg | 4.04E+02 | 4.43E-04  | 3.10E-04 | 4.76E-08   |                   |
| 493  | 1  | Surface | Beryllium     | mg/kg | 9.91E-01 | 1.09E-06  | 1.06E-07 | 1.17E-10   |                   |
| 493  | 1  | Surface | Chromium      | mg/kg | 6.61E+01 | 7.24E-05  | 5.07E-05 | 7.79E-09   |                   |
| 493  | 1  | Surface | Cobalt        | mg/kg | 3.79E+01 | 4.15E-05  | 2.91E-05 | 4.46E-09   |                   |
| 493  | 1  | Surface | Manganese     | mg/kg | 3.55E+03 | 3.89E-03  | 2.18E-03 | 4.18E-07   |                   |
| 493  | 1  | Surface | Mercury       | mg/kg | 2.60E-01 | 2.85E-07  | 1.99E-07 | 9.19E-07   |                   |
| 493  | 1  | Surface | Nickel        | mg/kg | 2.13E+02 | 2.33E-04  | 1.31E-04 | 2.51E-08   |                   |
| 493  | 1  | Surface | PCB, Total    | mg/kg | 2.60E-01 | 2.85E-07  | 5.58E-07 | 5.20E-08   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 493  | 1  | Surface | Total PAH     | mg/kg | 5.00E-01 | 5.48E-07  | 9.97E-07 | 4.37E-09   |                   |
| 493  | 1  | Surface | Vanadium      | mg/kg | 4.05E+01 | 4.44E-05  | 1.62E-05 | 4.77E-09   |                   |
| 493  | 1  | Surface | Cobalt-60     | pCi/g | 1.36E-02 | 5.71E+00  |          | 6.14E-04   | 6.26E-02          |
| 493  | 1  | Surface | Neptunium-237 | pCi/g | 1.22E-01 | 5.12E+01  |          | 5.51E-03   | 5.62E-01          |
| 493  | 1  | Surface | Uranium-235   | pCi/g | 1.65E-01 | 6.93E+01  |          | 7.45E-03   | 7.59E-01          |
| 493  | 1  | Surface | Uranium-238   | pCi/g | 5.50E+00 | 2.31E+03  |          | 2.48E-01   | 2.53E+01          |
| 517  | 1  | Surface | Beryllium     | mg/kg | 7.39E-01 | 8.10E-07  | 7.94E-08 | 8.70E-11   |                   |
| 517  | 1  | Surface | Chromium      | mg/kg | 4.91E+01 | 5.38E-05  | 3.77E-05 | 5.78E-09   |                   |
| 517  | 1  | Surface | Nickel        | mg/kg | 1.72E+02 | 1.88E-04  | 1.06E-04 | 2.03E-08   |                   |
| 517  | 1  | Surface | PCB, Total    | mg/kg | 5.00E-01 | 5.48E-07  | 1.07E-06 | 1.00E-07   |                   |
| 517  | 1  | Surface | Cobalt-60     | pCi/g | 6.39E-03 | 2.68E+00  |          | 2.88E-04   | 2.94E-02          |
| 517  | 1  | Surface | Neptunium-237 | pCi/g | 1.07E+00 | 4.49E+02  |          | 4.83E-02   | 4.92E+00          |
| 517  | 1  | Surface | Uranium-235   | pCi/g | 1.60E-01 | 6.72E+01  |          | 7.22E-03   | 7.36E-01          |
| 517  | 1  | Surface | Uranium-238   | pCi/g | 3.89E+00 | 1.63E+03  |          | 1.76E-01   | 1.79E+01          |
| 541  | 1  | Surface | Aluminum      | mg/kg | 1.43E+04 | 1.57E-02  | 1.10E-02 | 1.68E-06   |                   |
| 541  | 1  | Surface | Barium        | mg/kg | 1.28E+02 | 1.40E-04  | 9.82E-05 | 1.51E-08   |                   |
| 541  | 1  | Surface | Beryllium     | mg/kg | 6.98E-01 | 7.65E-07  | 7.50E-08 | 8.22E-11   |                   |
| 541  | 1  | Surface | Cadmium       | mg/kg | 1.68E+00 | 1.84E-06  | 2.58E-08 | 1.98E-10   |                   |
| 541  | 1  | Surface | Chromium      | mg/kg | 8.24E+02 | 9.03E-04  | 6.32E-04 | 9.71E-08   |                   |
| 541  | 1  | Surface | Iron          | mg/kg | 1.60E+04 | 1.75E-02  | 1.22E-02 | 1.88E-06   |                   |
| 541  | 1  | Surface | Mercury       | mg/kg | 9.81E-02 | 1.08E-07  | 7.53E-08 | 3.47E-07   |                   |
| 541  | 1  | Surface | Naphthalene   | mg/kg | 6.55E-01 | 7.18E-07  | 2.51E-06 | 2.59E-06   |                   |
| 541  | 1  | Surface | Nickel        | mg/kg | 1.52E+01 | 1.67E-05  | 9.35E-06 | 1.80E-09   |                   |
| 541  | 1  | Surface | PCB, Total    | mg/kg | 6.06E+01 | 6.64E-05  | 1.30E-04 | 1.21E-05   |                   |
| 541  | 1  | Surface | Total PAH     | mg/kg | 2.33E+00 | 2.55E-06  | 4.65E-06 | 2.04E-08   |                   |
| 541  | 1  | Surface | Uranium       | mg/kg | 6.38E+03 | 7.00E-03  | 4.90E-03 | 7.52E-07   |                   |
| 541  | 1  | Surface | Vanadium      | mg/kg | 3.04E+01 | 3.34E-05  | 1.21E-05 | 3.59E-09   |                   |
| 541  | 1  | Surface | Americium-241 | pCi/g | 7.53E+00 | 3.16E+03  |          | 3.40E-01   | 3.47E+01          |
| 541  | 1  | Surface | Cesium-137    | pCi/g | 9.58E-01 | 4.02E+02  |          | 4.32E-02   | 4.41E+00          |
| 541  | 1  | Surface | Cobalt-60     | pCi/g | 1.01E-02 | 4.24E+00  |          | 4.56E-04   | 4.65E-02          |
| 541  | 1  | Surface | Neptunium-237 | pCi/g | 5.52E-02 | 2.32E+01  |          | 2.49E-03   | 2.54E-01          |
| 541  | 1  | Surface | Uranium-234   | pCi/g | 1.43E+02 | 6.00E+04  |          | 6.45E+00   | 6.58E+02          |
| 541  | 1  | Surface | Uranium-235   | pCi/g | 1.76E+01 | 7.38E+03  |          | 7.93E-01   | 8.08E+01          |
| 541  | 1  | Surface | Uranium-238   | pCi/g | 1.00E+03 | 4.20E+05  |          | 4.52E+01   | 4.61E+03          |
| 561  | 1  | Surface | Antimony      | mg/kg | 9.36E-01 | 1.03E-06  | 7.18E-07 | 1.10E-10   |                   |
| 561  | 1  | Surface | Arsenic       | mg/kg | 1.66E+01 | 1.81E-05  | 7.62E-06 | 1.95E-09   |                   |
| 561  | 1  | Surface | Barium        | mg/kg | 1.40E+02 | 1.54E-04  | 1.08E-04 | 1.65E-08   |                   |
| 561  | 1  | Surface | Beryllium     | mg/kg | 6.85E-01 | 7.51E-07  | 7.36E-08 | 8.07E-11   |                   |
| 561  | 1  | Surface | Chromium      | mg/kg | 8.58E+01 | 9.40E-05  | 6.58E-05 | 1.01E-08   |                   |
| 561  | 1  | Surface | Cobalt        | mg/kg | 1.07E+01 | 1.17E-05  | 8.20E-06 | 1.26E-09   |                   |
| 561  | 1  | Surface | Iron          | mg/kg | 2.05E+04 | 2.24E-02  | 1.57E-02 | 2.41E-06   |                   |
| 561  | 1  | Surface | Manganese     | mg/kg | 1.61E+03 | 1.76E-03  | 9.87E-04 | 1.90E-07   |                   |
| 561  | 1  | Surface | PCB, Total    | mg/kg | 1.04E+00 | 1.14E-06  | 2.24E-06 | 2.08E-07   |                   |
| 561  | 1  | Surface | Thallium      | mg/kg | 3.33E-01 | 3.65E-07  | 2.55E-07 | 3.92E-11   |                   |
| 561  | 1  | Surface | Total PAH     | mg/kg | 3.94E-01 | 4.32E-07  | 7.86E-07 | 3.44E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 561  | 1  | Surface | Uranium           | mg/kg | 2.65E+02 | 2.90E-04  | 2.03E-04 | 3.12E-08   |                   |
| 561  | 1  | Surface | Vanadium          | mg/kg | 3.76E+01 | 4.12E-05  | 1.50E-05 | 4.43E-09   |                   |
| 561  | 1  | Surface | Cobalt-60         | pCi/g | 7.06E-02 | 2.97E+01  |          | 3.19E-03   | 3.25E-01          |
| 561  | 1  | Surface | Neptunium-237     | pCi/g | 2.71E-02 | 1.14E+01  |          | 1.22E-03   | 1.25E-01          |
| 561  | 1  | Surface | Uranium-234       | pCi/g | 7.84E+00 | 3.29E+03  |          | 3.54E-01   | 3.61E+01          |
| 561  | 1  | Surface | Uranium-235       | pCi/g | 1.37E+00 | 5.74E+02  |          | 6.17E-02   | 6.29E+00          |
| 561  | 1  | Surface | Uranium-238       | pCi/g | 1.07E+02 | 4.47E+04  |          | 4.81E+00   | 4.90E+02          |
| 561  | 2  | Surface | Antimony          | mg/kg | 5.33E+00 | 5.85E-06  | 4.09E-06 | 6.28E-10   |                   |
| 561  | 2  | Surface | Arsenic           | mg/kg | 1.30E+01 | 1.43E-05  | 5.99E-06 | 1.53E-09   |                   |
| 561  | 2  | Surface | Beryllium         | mg/kg | 6.34E-01 | 6.95E-07  | 6.81E-08 | 7.47E-11   |                   |
| 561  | 2  | Surface | Cadmium           | mg/kg | 4.13E-01 | 4.53E-07  | 6.34E-09 | 4.86E-11   |                   |
| 561  | 2  | Surface | Chromium          | mg/kg | 2.88E+02 | 3.16E-04  | 2.21E-04 | 3.39E-08   |                   |
| 561  | 2  | Surface | Cobalt            | mg/kg | 1.14E+01 | 1.25E-05  | 8.75E-06 | 1.34E-09   |                   |
| 561  | 2  | Surface | Manganese         | mg/kg | 1.12E+03 | 1.22E-03  | 6.84E-04 | 1.31E-07   |                   |
| 561  | 2  | Surface | PCB, Total        | mg/kg | 1.64E+01 | 1.80E-05  | 3.53E-05 | 3.28E-06   |                   |
| 561  | 2  | Surface | Thallium          | mg/kg | 4.09E-01 | 4.48E-07  | 3.14E-07 | 4.82E-11   |                   |
| 561  | 2  | Surface | Total PAH         | mg/kg | 2.43E+00 | 2.66E-06  | 4.85E-06 | 2.12E-08   |                   |
| 561  | 2  | Surface | Uranium           | mg/kg | 1.38E+03 | 1.52E-03  | 1.06E-03 | 1.63E-07   |                   |
| 561  | 2  | Surface | Vanadium          | mg/kg | 3.46E+01 | 3.79E-05  | 1.38E-05 | 4.07E-09   |                   |
| 561  | 2  | Surface | Cesium-137        | pCi/g | 4.09E-01 | 1.72E+02  |          | 1.85E-02   | 1.88E+00          |
| 561  | 2  | Surface | Cobalt-60         | pCi/g | 2.76E-02 | 1.16E+01  |          | 1.25E-03   | 1.27E-01          |
| 561  | 2  | Surface | Neptunium-237     | pCi/g | 4.71E-02 | 1.98E+01  |          | 2.13E-03   | 2.17E-01          |
| 561  | 2  | Surface | Uranium-234       | pCi/g | 4.06E+01 | 1.71E+04  |          | 1.83E+00   | 1.87E+02          |
| 561  | 2  | Surface | Uranium-235       | pCi/g | 7.09E+00 | 2.98E+03  |          | 3.20E-01   | 3.26E+01          |
| 561  | 2  | Surface | Uranium-238       | pCi/g | 4.00E+02 | 1.68E+05  |          | 1.81E+01   | 1.84E+03          |
| 562  | 1  | Surface | Uranium           | mg/kg | 8.73E+01 | 9.57E-05  | 6.70E-05 | 1.03E-08   |                   |
| 562  | 1  | Surface | Uranium-238       | pCi/g | 2.73E+00 | 1.15E+03  |          | 1.23E-01   | 1.26E+01          |
| 562  | 2  | Surface | PCB, Total        | mg/kg | 1.58E+00 | 1.73E-06  | 3.39E-06 | 3.16E-07   |                   |
| 562  | 2  | Surface | Protactinium-234m | pCi/g | 2.76E+02 | 1.16E+05  |          | 1.25E+01   | 1.27E+03          |
| 562  | 2  | Surface | Uranium-234       | pCi/g | 5.34E+01 | 2.24E+04  |          | 2.41E+00   | 2.46E+02          |
| 562  | 2  | Surface | Uranium-235       | pCi/g | 8.96E+00 | 3.76E+03  |          | 4.04E-01   | 4.12E+01          |
| 562  | 2  | Surface | Uranium-238       | pCi/g | 5.81E+02 | 2.44E+05  |          | 2.62E+01   | 2.67E+03          |
| 562  | 3  | Surface | Chromium          | mg/kg | 3.82E+01 | 4.18E-05  | 2.93E-05 | 4.49E-09   |                   |
| 562  | 3  | Surface | PCB, Total        | mg/kg | 2.40E-01 | 2.63E-07  | 5.16E-07 | 4.80E-08   |                   |
| 562  | 3  | Surface | Total PAH         | mg/kg | 2.20E-01 | 2.41E-07  | 4.39E-07 | 1.92E-09   |                   |
| 562  | 3  | Surface | Uranium           | mg/kg | 5.89E+01 | 6.45E-05  | 4.52E-05 | 6.94E-09   |                   |
| 562  | 3  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 6.85E+01  |          | 7.36E-03   | 7.50E-01          |
| 562  | 3  | Surface | Uranium-238       | pCi/g | 1.09E+01 | 4.58E+03  |          | 4.92E-01   | 5.02E+01          |
| 562  | 4  | Surface | Chromium          | mg/kg | 4.67E+01 | 5.11E-05  | 3.58E-05 | 5.50E-09   |                   |
| 562  | 4  | Surface | Uranium           | mg/kg | 2.10E+01 | 2.30E-05  | 1.61E-05 | 2.47E-09   |                   |
| 562  | 4  | Surface | Uranium-238       | pCi/g | 2.24E+00 | 9.41E+02  |          | 1.01E-01   | 1.03E+01          |
| 562  | 5  | Surface | Chromium          | mg/kg | 1.53E+02 | 1.68E-04  | 1.17E-04 | 1.80E-08   |                   |
| 562  | 5  | Surface | PCB, Total        | mg/kg | 9.50E-01 | 1.04E-06  | 2.04E-06 | 1.90E-07   |                   |
| 562  | 5  | Surface | Total PAH         | mg/kg | 7.05E-02 | 7.73E-08  | 1.41E-07 | 6.16E-10   |                   |
| 562  | 5  | Surface | Uranium           | mg/kg | 2.08E+02 | 2.28E-04  | 1.60E-04 | 2.45E-08   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 562  | 5  | Surface | Uranium-234       | pCi/g | 8.57E+00 | 3.60E+03  |          | 3.87E-01   | 3.94E+01          |
| 562  | 5  | Surface | Uranium-235       | pCi/g | 9.50E-01 | 3.99E+02  |          | 4.29E-02   | 4.37E+00          |
| 562  | 5  | Surface | Uranium-238       | pCi/g | 6.24E+01 | 2.62E+04  |          | 2.82E+00   | 2.87E+02          |
| 562  | 6  | Surface | Protactinium-234m | pCi/g | 3.66E+02 | 1.54E+05  |          | 1.65E+01   | 1.68E+03          |
| 562  | 6  | Surface | Uranium-234       | pCi/g | 4.01E+01 | 1.68E+04  |          | 1.81E+00   | 1.85E+02          |
| 562  | 6  | Surface | Uranium-235       | pCi/g | 6.81E+00 | 2.86E+03  |          | 3.07E-01   | 3.13E+01          |
| 562  | 6  | Surface | Uranium-238       | pCi/g | 3.62E+02 | 1.52E+05  |          | 1.63E+01   | 1.66E+03          |
| 563  | 1  | Surface | Cadmium           | mg/kg | 8.96E-01 | 9.82E-07  | 1.37E-08 | 1.06E-10   |                   |
| 563  | 1  | Surface | Chromium          | mg/kg | 2.85E+02 | 3.12E-04  | 2.19E-04 | 3.36E-08   |                   |
| 563  | 1  | Surface | PCB, Total        | mg/kg | 7.40E-01 | 8.11E-07  | 1.59E-06 | 1.48E-07   |                   |
| 563  | 1  | Surface | Uranium           | mg/kg | 1.51E+01 | 1.65E-05  | 1.16E-05 | 1.78E-09   |                   |
| 563  | 1  | Surface | Uranium-238       | pCi/g | 2.76E+00 | 1.16E+03  |          | 1.25E-01   | 1.27E+01          |
| 563  | 2  | Surface | Cesium-137        | pCi/g | 6.47E-01 | 2.72E+02  |          | 2.92E-02   | 2.98E+00          |
| 563  | 2  | Surface | Uranium-238       | pCi/g | 1.49E+00 | 6.26E+02  |          | 6.73E-02   | 6.86E+00          |
| 564  | 1  | Surface | Arsenic           | mg/kg | 4.30E+01 | 4.71E-05  | 1.98E-05 | 5.06E-09   |                   |
| 564  | 1  | Surface | Beryllium         | mg/kg | 2.12E+00 | 2.32E-06  | 2.28E-07 | 2.50E-10   |                   |
| 564  | 1  | Surface | Cadmium           | mg/kg | 1.96E+00 | 2.15E-06  | 3.01E-08 | 2.31E-10   |                   |
| 564  | 1  | Surface | Chromium          | mg/kg | 7.49E+01 | 8.21E-05  | 5.75E-05 | 8.82E-09   |                   |
| 564  | 1  | Surface | Iron              | mg/kg | 3.66E+04 | 4.01E-02  | 2.81E-02 | 4.31E-06   |                   |
| 564  | 1  | Surface | Mercury           | mg/kg | 2.30E-01 | 2.52E-07  | 1.76E-07 | 8.13E-07   |                   |
| 564  | 1  | Surface | Nickel            | mg/kg | 2.24E+01 | 2.45E-05  | 1.37E-05 | 2.64E-09   |                   |
| 564  | 1  | Surface | PCB, Total        | mg/kg | 1.93E+00 | 2.12E-06  | 4.15E-06 | 3.86E-07   |                   |
| 564  | 1  | Surface | Thallium          | mg/kg | 2.36E+00 | 2.59E-06  | 1.81E-06 | 2.78E-10   |                   |
| 564  | 1  | Surface | Uranium           | mg/kg | 5.83E+01 | 6.39E-05  | 4.47E-05 | 6.87E-09   |                   |
| 564  | 1  | Surface | Vanadium          | mg/kg | 8.06E+01 | 8.83E-05  | 3.22E-05 | 9.49E-09   |                   |
| 564  | 1  | Surface | Cesium-137        | pCi/g | 6.20E-01 | 2.60E+02  |          | 2.80E-02   | 2.85E+00          |
| 564  | 1  | Surface | Thorium-230       | pCi/g | 5.01E+00 | 2.10E+03  |          | 2.26E-01   | 2.31E+01          |
| 564  | 1  | Surface | Uranium-234       | pCi/g | 6.93E+00 | 2.91E+03  |          | 3.13E-01   | 3.19E+01          |
| 564  | 1  | Surface | Uranium-235       | pCi/g | 3.87E-01 | 1.63E+02  |          | 1.75E-02   | 1.78E+00          |
| 564  | 1  | Surface | Uranium-238       | pCi/g | 8.33E+00 | 3.50E+03  |          | 3.76E-01   | 3.83E+01          |
| 567  | 3  | Surface | Chromium          | mg/kg | 3.79E+01 | 4.15E-05  | 2.91E-05 | 4.46E-09   |                   |
| 567  | 4  | Surface | Aluminum          | mg/kg | 1.25E+04 | 1.37E-02  | 9.61E-03 | 1.47E-06   |                   |
| 567  | 4  | Surface | Chromium          | mg/kg | 1.63E+01 | 1.79E-05  | 1.25E-05 | 1.92E-09   |                   |
| 567  | 4  | Surface | Uranium-238       | pCi/g | 1.05E+00 | 4.41E+02  |          | 4.74E-02   | 4.83E+00          |
| 14   | 1  | Surface | Arsenic           | mg/kg | 1.10E+01 | 1.20E-05  | 5.05E-06 | 1.29E-09   |                   |
| 14   | 1  | Surface | Chromium          | mg/kg | 6.36E+01 | 6.97E-05  | 4.88E-05 | 7.49E-09   |                   |
| 14   | 1  | Surface | Iron              | mg/kg | 1.89E+04 | 2.07E-02  | 1.45E-02 | 2.22E-06   |                   |
| 14   | 1  | Surface | Nickel            | mg/kg | 1.40E+02 | 1.53E-04  | 8.57E-05 | 1.65E-08   |                   |
| 14   | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 5.48E-07  | 1.07E-06 | 1.00E-07   |                   |
| 14   | 1  | Surface | Silver            | mg/kg | 1.67E+01 | 1.83E-05  | 1.02E-05 | 1.97E-09   |                   |
| 14   | 1  | Surface | Uranium           | mg/kg | 7.21E+01 | 7.91E-05  | 5.53E-05 | 8.50E-09   |                   |
| 14   | 1  | Surface | Americium-241     | pCi/g | 1.27E+00 | 5.32E+02  |          | 5.72E-02   | 5.83E+00          |
| 14   | 1  | Surface | Neptunium-237     | pCi/g | 2.14E-01 | 8.99E+01  |          | 9.66E-03   | 9.85E-01          |
| 14   | 1  | Surface | Technetium-99     | pCi/g | 4.06E+02 | 1.71E+05  |          | 1.83E+01   | 1.87E+03          |
| 14   | 1  | Surface | Uranium-238       | pCi/g | 1.69E+00 | 7.10E+02  |          | 7.63E-02   | 7.78E+00          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 2  | Surface | Antimony      | mg/kg | 3.70E+00 | 4.05E-06  | 2.84E-06 | 4.36E-10   |                   |
| 14   | 2  | Surface | Arsenic       | mg/kg | 1.45E+01 | 1.59E-05  | 6.69E-06 | 1.71E-09   |                   |
| 14   | 2  | Surface | Beryllium     | mg/kg | 7.10E-01 | 7.78E-07  | 7.63E-08 | 8.36E-11   |                   |
| 14   | 2  | Surface | Chromium      | mg/kg | 6.65E+01 | 7.29E-05  | 5.10E-05 | 7.84E-09   |                   |
| 14   | 2  | Surface | Copper        | mg/kg | 1.76E+02 | 1.93E-04  | 1.35E-04 | 2.08E-08   |                   |
| 14   | 2  | Surface | Iron          | mg/kg | 3.72E+04 | 4.08E-02  | 2.85E-02 | 4.38E-06   |                   |
| 14   | 2  | Surface | Manganese     | mg/kg | 1.44E+03 | 1.58E-03  | 8.85E-04 | 1.70E-07   |                   |
| 14   | 2  | Surface | Mercury       | mg/kg | 2.67E-01 | 2.93E-07  | 2.05E-07 | 9.44E-07   |                   |
| 14   | 2  | Surface | Nickel        | mg/kg | 6.78E+02 | 7.43E-04  | 4.16E-04 | 7.99E-08   |                   |
| 14   | 2  | Surface | PCB, Total    | mg/kg | 3.90E-01 | 4.27E-07  | 8.38E-07 | 7.80E-08   |                   |
| 14   | 2  | Surface | Total PAH     | mg/kg | 3.38E-01 | 3.71E-07  | 6.74E-07 | 2.96E-09   |                   |
| 14   | 2  | Surface | Uranium       | mg/kg | 2.93E+02 | 3.21E-04  | 2.25E-04 | 3.45E-08   |                   |
| 14   | 2  | Surface | Neptunium-237 | pCi/g | 7.70E-01 | 3.23E+02  |          | 3.48E-02   | 3.54E+00          |
| 14   | 2  | Surface | Thorium-230   | pCi/g | 5.98E+00 | 2.51E+03  |          | 2.70E-01   | 2.75E+01          |
| 14   | 2  | Surface | Uranium-234   | pCi/g | 3.24E+01 | 1.36E+04  |          | 1.46E+00   | 1.49E+02          |
| 14   | 2  | Surface | Uranium-235   | pCi/g | 2.00E+00 | 8.40E+02  |          | 9.03E-02   | 9.21E+00          |
| 14   | 2  | Surface | Uranium-238   | pCi/g | 5.61E+01 | 2.36E+04  |          | 2.53E+00   | 2.58E+02          |
| 14   | 3  | Surface | Arsenic       | mg/kg | 1.30E+01 | 1.42E-05  | 5.97E-06 | 1.53E-09   |                   |
| 14   | 3  | Surface | Chromium      | mg/kg | 7.01E+01 | 7.69E-05  | 5.38E-05 | 8.26E-09   |                   |
| 14   | 3  | Surface | Copper        | mg/kg | 1.29E+02 | 1.42E-04  | 9.92E-05 | 1.52E-08   |                   |
| 14   | 3  | Surface | Iron          | mg/kg | 3.48E+04 | 3.82E-02  | 2.67E-02 | 4.10E-06   |                   |
| 14   | 3  | Surface | Manganese     | mg/kg | 1.06E+03 | 1.16E-03  | 6.49E-04 | 1.25E-07   |                   |
| 14   | 3  | Surface | Mercury       | mg/kg | 7.48E+00 | 8.20E-06  | 5.74E-06 | 2.64E-05   |                   |
| 14   | 3  | Surface | Molybdenum    | mg/kg | 2.21E+01 | 2.42E-05  | 1.69E-05 | 2.60E-09   |                   |
| 14   | 3  | Surface | Nickel        | mg/kg | 5.76E+02 | 6.32E-04  | 3.54E-04 | 6.79E-08   |                   |
| 14   | 3  | Surface | PCB, Total    | mg/kg | 8.65E+00 | 9.48E-06  | 1.86E-05 | 1.73E-06   |                   |
| 14   | 3  | Surface | Uranium       | mg/kg | 2.18E+02 | 2.39E-04  | 1.67E-04 | 2.56E-08   |                   |
| 14   | 3  | Surface | Uranium-238   | pCi/g | 1.50E+00 | 6.30E+02  |          | 6.77E-02   | 6.90E+00          |
| 14   | 4  | Surface | Antimony      | mg/kg | 4.30E+00 | 4.71E-06  | 3.30E-06 | 5.06E-10   |                   |
| 14   | 4  | Surface | Arsenic       | mg/kg | 1.33E+01 | 1.46E-05  | 6.11E-06 | 1.56E-09   |                   |
| 14   | 4  | Surface | Chromium      | mg/kg | 7.20E+01 | 7.89E-05  | 5.53E-05 | 8.49E-09   |                   |
| 14   | 4  | Surface | Copper        | mg/kg | 3.54E+02 | 3.87E-04  | 2.71E-04 | 4.16E-08   |                   |
| 14   | 4  | Surface | Iron          | mg/kg | 3.88E+04 | 4.26E-02  | 2.98E-02 | 4.57E-06   |                   |
| 14   | 4  | Surface | Mercury       | mg/kg | 4.87E-01 | 5.34E-07  | 3.74E-07 | 1.72E-06   |                   |
| 14   | 4  | Surface | Nickel        | mg/kg | 7.31E+02 | 8.01E-04  | 4.48E-04 | 8.60E-08   |                   |
| 14   | 4  | Surface | PCB, Total    | mg/kg | 6.61E+00 | 7.24E-06  | 1.42E-05 | 1.32E-06   |                   |
| 14   | 4  | Surface | Silver        | mg/kg | 1.17E+01 | 1.28E-05  | 7.18E-06 | 1.38E-09   |                   |
| 14   | 4  | Surface | Total PAH     | mg/kg | 2.51E-01 | 2.75E-07  | 5.00E-07 | 2.19E-09   |                   |
| 14   | 4  | Surface | Uranium       | mg/kg | 3.72E+02 | 4.07E-04  | 2.85E-04 | 4.38E-08   |                   |
| 14   | 4  | Surface | Neptunium-237 | pCi/g | 2.68E+00 | 1.13E+03  |          | 1.21E-01   | 1.23E+01          |
| 14   | 4  | Surface | Thorium-230   | pCi/g | 8.33E+00 | 3.50E+03  |          | 3.76E-01   | 3.83E+01          |
| 14   | 4  | Surface | Uranium-234   | pCi/g | 1.13E+02 | 4.75E+04  |          | 5.10E+00   | 5.20E+02          |
| 14   | 4  | Surface | Uranium-235   | pCi/g | 8.00E+00 | 3.36E+03  |          | 3.61E-01   | 3.68E+01          |
| 14   | 4  | Surface | Uranium-238   | pCi/g | 1.69E+02 | 7.10E+04  |          | 7.63E+00   | 7.78E+02          |
| 14   | 5  | Surface | Antimony      | mg/kg | 2.30E+00 | 2.52E-06  | 1.76E-06 | 2.71E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 5  | Surface | Arsenic       | mg/kg | 1.31E+01 | 1.43E-05  | 6.02E-06 | 1.54E-09   |                   |
| 14   | 5  | Surface | Cadmium       | mg/kg | 3.90E+00 | 4.27E-06  | 5.98E-08 | 4.59E-10   |                   |
| 14   | 5  | Surface | Chromium      | mg/kg | 4.70E+01 | 5.15E-05  | 3.60E-05 | 5.53E-09   |                   |
| 14   | 5  | Surface | Cobalt        | mg/kg | 1.40E+01 | 1.53E-05  | 1.07E-05 | 1.65E-09   |                   |
| 14   | 5  | Surface | Copper        | mg/kg | 1.34E+02 | 1.46E-04  | 1.02E-04 | 1.57E-08   |                   |
| 14   | 5  | Surface | Iron          | mg/kg | 3.92E+04 | 4.30E-02  | 3.01E-02 | 4.62E-06   |                   |
| 14   | 5  | Surface | Manganese     | mg/kg | 8.28E+02 | 9.07E-04  | 5.08E-04 | 9.75E-08   |                   |
| 14   | 5  | Surface | Mercury       | mg/kg | 1.09E+01 | 1.20E-05  | 8.39E-06 | 3.87E-05   |                   |
| 14   | 5  | Surface | Nickel        | mg/kg | 4.61E+02 | 5.06E-04  | 2.83E-04 | 5.43E-08   |                   |
| 14   | 5  | Surface | PCB, Total    | mg/kg | 1.00E+00 | 1.10E-06  | 2.15E-06 | 2.00E-07   |                   |
| 14   | 5  | Surface | Silver        | mg/kg | 1.29E+01 | 1.41E-05  | 7.90E-06 | 1.52E-09   |                   |
| 14   | 5  | Surface | Thallium      | mg/kg | 4.10E-01 | 4.49E-07  | 3.15E-07 | 4.83E-11   |                   |
| 14   | 5  | Surface | Total PAH     | mg/kg | 1.21E-01 | 1.33E-07  | 2.41E-07 | 1.06E-09   |                   |
| 14   | 5  | Surface | Uranium       | mg/kg | 2.62E+02 | 2.87E-04  | 2.01E-04 | 3.09E-08   |                   |
| 14   | 5  | Surface | Neptunium-237 | pCi/g | 1.74E+00 | 7.31E+02  |          | 7.85E-02   | 8.01E+00          |
| 14   | 5  | Surface | Technetium-99 | pCi/g | 1.01E+02 | 4.24E+04  |          | 4.56E+00   | 4.65E+02          |
| 14   | 5  | Surface | Thorium-230   | pCi/g | 1.39E+01 | 5.84E+03  |          | 6.27E-01   | 6.40E+01          |
| 14   | 5  | Surface | Uranium-234   | pCi/g | 5.22E+01 | 2.19E+04  |          | 2.36E+00   | 2.40E+02          |
| 14   | 5  | Surface | Uranium-235   | pCi/g | 3.33E+00 | 1.40E+03  |          | 1.50E-01   | 1.53E+01          |
| 14   | 5  | Surface | Uranium-238   | pCi/g | 9.42E+01 | 3.96E+04  |          | 4.25E+00   | 4.34E+02          |
| 14   | 6  | Surface | Antimony      | mg/kg | 2.70E+00 | 2.96E-06  | 2.07E-06 | 3.18E-10   |                   |
| 14   | 6  | Surface | Cadmium       | mg/kg | 8.40E-01 | 9.21E-07  | 1.29E-08 | 9.89E-11   |                   |
| 14   | 6  | Surface | Chromium      | mg/kg | 4.46E+02 | 4.89E-04  | 3.42E-04 | 5.25E-08   |                   |
| 14   | 6  | Surface | Copper        | mg/kg | 1.22E+02 | 1.34E-04  | 9.38E-05 | 1.44E-08   |                   |
| 14   | 6  | Surface | Mercury       | mg/kg | 3.47E-01 | 3.80E-07  | 2.66E-07 | 1.23E-06   |                   |
| 14   | 6  | Surface | Nickel        | mg/kg | 9.63E+02 | 1.06E-03  | 5.91E-04 | 1.13E-07   |                   |
| 14   | 6  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 5.48E-06  | 1.07E-05 | 1.00E-06   |                   |
| 14   | 6  | Surface | Silver        | mg/kg | 1.19E+01 | 1.30E-05  | 7.29E-06 | 1.40E-09   |                   |
| 14   | 6  | Surface | Uranium       | mg/kg | 5.79E+02 | 6.34E-04  | 4.44E-04 | 6.82E-08   |                   |
| 14   | 6  | Surface | Neptunium-237 | pCi/g | 2.65E+00 | 1.11E+03  |          | 1.20E-01   | 1.22E+01          |
| 14   | 6  | Surface | Uranium-234   | pCi/g | 3.41E+01 | 1.43E+04  |          | 1.54E+00   | 1.57E+02          |
| 14   | 6  | Surface | Uranium-235   | pCi/g | 2.27E+00 | 9.53E+02  |          | 1.02E-01   | 1.04E+01          |
| 14   | 6  | Surface | Uranium-238   | pCi/g | 5.08E+01 | 2.13E+04  |          | 2.29E+00   | 2.34E+02          |
| 14   | 7  | Surface | Antimony      | mg/kg | 7.50E-01 | 8.22E-07  | 5.75E-07 | 8.83E-11   |                   |
| 14   | 7  | Surface | Arsenic       | mg/kg | 1.13E+01 | 1.24E-05  | 5.20E-06 | 1.33E-09   |                   |
| 14   | 7  | Surface | Cadmium       | mg/kg | 2.70E+00 | 2.96E-06  | 4.14E-08 | 3.18E-10   |                   |
| 14   | 7  | Surface | Chromium      | mg/kg | 6.46E+01 | 7.08E-05  | 4.95E-05 | 7.60E-09   |                   |
| 14   | 7  | Surface | Mercury       | mg/kg | 7.82E+00 | 8.57E-06  | 6.00E-06 | 2.76E-05   |                   |
| 14   | 7  | Surface | Nickel        | mg/kg | 1.22E+03 | 1.34E-03  | 7.51E-04 | 1.44E-07   |                   |
| 14   | 7  | Surface | PCB, Total    | mg/kg | 7.60E+00 | 8.33E-06  | 1.63E-05 | 1.52E-06   |                   |
| 14   | 7  | Surface | Total PAH     | mg/kg | 6.31E-02 | 6.92E-08  | 1.26E-07 | 5.52E-10   |                   |
| 14   | 7  | Surface | Uranium       | mg/kg | 3.33E+02 | 3.65E-04  | 2.55E-04 | 3.92E-08   |                   |
| 14   | 7  | Surface | Neptunium-237 | pCi/g | 1.49E+00 | 6.26E+02  |          | 6.73E-02   | 6.86E+00          |
| 14   | 7  | Surface | Uranium-234   | pCi/g | 1.28E+01 | 5.38E+03  |          | 5.78E-01   | 5.89E+01          |
| 14   | 7  | Surface | Uranium-235   | pCi/g | 9.60E-01 | 4.03E+02  |          | 4.33E-02   | 4.42E+00          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 7  | Surface | Uranium-238   | pCi/g | 2.13E+01 | 8.95E+03  |          | 9.62E-01   | 9.80E+01          |
| 14   | 8  | Surface | Antimony      | mg/kg | 6.10E-01 | 6.68E-07  | 4.68E-07 | 7.19E-11   |                   |
| 14   | 8  | Surface | Arsenic       | mg/kg | 1.14E+01 | 1.25E-05  | 5.24E-06 | 1.34E-09   |                   |
| 14   | 8  | Surface | Chromium      | mg/kg | 4.60E+01 | 5.04E-05  | 3.53E-05 | 5.42E-09   |                   |
| 14   | 8  | Surface | Mercury       | mg/kg | 7.90E+00 | 8.66E-06  | 6.06E-06 | 2.79E-05   |                   |
| 14   | 8  | Surface | Nickel        | mg/kg | 6.73E+02 | 7.37E-04  | 4.13E-04 | 7.92E-08   |                   |
| 14   | 8  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 5.48E-06  | 1.07E-05 | 1.00E-06   |                   |
| 14   | 8  | Surface | Silver        | mg/kg | 9.63E+00 | 1.06E-05  | 5.91E-06 | 1.13E-09   |                   |
| 14   | 8  | Surface | Total PAH     | mg/kg | 6.28E-02 | 6.88E-08  | 1.25E-07 | 5.49E-10   |                   |
| 14   | 8  | Surface | Uranium       | mg/kg | 3.35E+02 | 3.67E-04  | 2.57E-04 | 3.95E-08   |                   |
| 14   | 8  | Surface | Neptunium-237 | pCi/g | 8.80E-01 | 3.70E+02  |          | 3.97E-02   | 4.05E+00          |
| 14   | 8  | Surface | Uranium-235   | pCi/g | 2.38E-01 | 1.00E+02  |          | 1.07E-02   | 1.10E+00          |
| 14   | 8  | Surface | Uranium-238   | pCi/g | 5.92E+00 | 2.49E+03  |          | 2.67E-01   | 2.72E+01          |
| 14   | 9  | Surface | Antimony      | mg/kg | 2.00E+00 | 2.19E-06  | 1.53E-06 | 2.36E-10   |                   |
| 14   | 9  | Surface | Arsenic       | mg/kg | 1.40E+01 | 1.54E-05  | 6.46E-06 | 1.65E-09   |                   |
| 14   | 9  | Surface | Cadmium       | mg/kg | 9.40E-01 | 1.03E-06  | 1.44E-08 | 1.11E-10   |                   |
| 14   | 9  | Surface | Chromium      | mg/kg | 4.64E+01 | 5.09E-05  | 3.56E-05 | 5.47E-09   |                   |
| 14   | 9  | Surface | Mercury       | mg/kg | 1.13E+00 | 1.24E-06  | 8.67E-07 | 3.99E-06   |                   |
| 14   | 9  | Surface | Nickel        | mg/kg | 9.43E+02 | 1.03E-03  | 5.79E-04 | 1.11E-07   |                   |
| 14   | 9  | Surface | PCB, Total    | mg/kg | 6.84E+00 | 7.50E-06  | 1.47E-05 | 1.37E-06   |                   |
| 14   | 9  | Surface | Total PAH     | mg/kg | 4.87E-01 | 5.34E-07  | 9.72E-07 | 4.26E-09   |                   |
| 14   | 9  | Surface | Uranium       | mg/kg | 1.46E+03 | 1.60E-03  | 1.12E-03 | 1.72E-07   |                   |
| 14   | 9  | Surface | Cesium-137    | pCi/g | 4.53E-01 | 1.90E+02  |          | 2.04E-02   | 2.09E+00          |
| 14   | 9  | Surface | Neptunium-237 | pCi/g | 1.09E+01 | 4.59E+03  |          | 4.93E-01   | 5.03E+01          |
| 14   | 9  | Surface | Technetium-99 | pCi/g | 1.96E+02 | 8.23E+04  |          | 8.84E+00   | 9.02E+02          |
| 14   | 9  | Surface | Uranium-234   | pCi/g | 8.32E+02 | 3.49E+05  |          | 3.76E+01   | 3.83E+03          |
| 14   | 9  | Surface | Uranium-235   | pCi/g | 5.46E+01 | 2.29E+04  |          | 2.46E+00   | 2.51E+02          |
| 14   | 9  | Surface | Uranium-238   | pCi/g | 1.20E+03 | 5.04E+05  |          | 5.42E+01   | 5.52E+03          |
| 14   | 10 | Surface | Antimony      | mg/kg | 9.40E-01 | 1.03E-06  | 7.21E-07 | 1.11E-10   |                   |
| 14   | 10 | Surface | Arsenic       | mg/kg | 1.12E+01 | 1.23E-05  | 5.17E-06 | 1.32E-09   |                   |
| 14   | 10 | Surface | Chromium      | mg/kg | 4.19E+01 | 4.59E-05  | 3.21E-05 | 4.93E-09   |                   |
| 14   | 10 | Surface | Copper        | mg/kg | 1.41E+02 | 1.55E-04  | 1.08E-04 | 1.66E-08   |                   |
| 14   | 10 | Surface | Iron          | mg/kg | 2.75E+04 | 3.01E-02  | 2.11E-02 | 3.23E-06   |                   |
| 14   | 10 | Surface | Mercury       | mg/kg | 2.51E+01 | 2.75E-05  | 1.92E-05 | 8.87E-05   |                   |
| 14   | 10 | Surface | Nickel        | mg/kg | 6.00E+02 | 6.58E-04  | 3.68E-04 | 7.07E-08   |                   |
| 14   | 10 | Surface | PCB, Total    | mg/kg | 9.38E+00 | 1.03E-05  | 2.01E-05 | 1.88E-06   |                   |
| 14   | 10 | Surface | Total PAH     | mg/kg | 2.72E-01 | 2.98E-07  | 5.42E-07 | 2.37E-09   |                   |
| 14   | 10 | Surface | Uranium       | mg/kg | 2.88E+02 | 3.16E-04  | 2.21E-04 | 3.40E-08   |                   |
| 14   | 10 | Surface | Neptunium-237 | pCi/g | 2.64E+00 | 1.11E+03  |          | 1.19E-01   | 1.22E+01          |
| 14   | 10 | Surface | Uranium-234   | pCi/g | 2.42E+01 | 1.02E+04  |          | 1.09E+00   | 1.11E+02          |
| 14   | 10 | Surface | Uranium-235   | pCi/g | 1.76E+00 | 7.39E+02  |          | 7.95E-02   | 8.10E+00          |
| 14   | 10 | Surface | Uranium-238   | pCi/g | 4.09E+01 | 1.72E+04  |          | 1.85E+00   | 1.88E+02          |
| 518  | 1  | Surface | Carbazole     | mg/kg | 1.17E+01 | 1.28E-05  | 1.80E-05 | 6.43E-07   |                   |
| 518  | 1  | Surface | Cobalt        | mg/kg | 6.80E+00 | 7.46E-06  | 5.22E-06 | 8.01E-10   |                   |
| 518  | 1  | Surface | Nickel        | mg/kg | 1.29E+01 | 1.41E-05  | 7.89E-06 | 1.51E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 518  | 1  | Surface | PCB, Total    | mg/kg | 6.30E-01 | 6.90E-07  | 1.35E-06 | 1.26E-07   |                   |
| 518  | 1  | Surface | Pyrene        | mg/kg | 3.94E+01 | 4.32E-05  | 7.86E-05 | 3.07E-06   |                   |
| 518  | 1  | Surface | Total PAH     | mg/kg | 3.90E+01 | 4.27E-05  | 7.77E-05 | 3.41E-07   |                   |
| 518  | 1  | Surface | Uranium       | mg/kg | 2.17E+02 | 2.38E-04  | 1.66E-04 | 2.56E-08   |                   |
| 518  | 1  | Surface | Uranium-235   | pCi/g | 6.74E-02 | 2.83E+01  |          | 3.04E-03   | 3.10E-01          |
| 518  | 1  | Surface | Uranium-238   | pCi/g | 1.51E+00 | 6.36E+02  |          | 6.83E-02   | 6.97E+00          |
| 520  | 1  | Surface | Chromium      | mg/kg | 3.17E+01 | 3.48E-05  | 2.43E-05 | 3.74E-09   |                   |
| 520  | 1  | Surface | Iron          | mg/kg | 1.56E+04 | 1.71E-02  | 1.20E-02 | 1.84E-06   |                   |
| 520  | 1  | Surface | Mercury       | mg/kg | 1.07E+01 | 1.17E-05  | 8.19E-06 | 3.77E-05   |                   |
| 520  | 1  | Surface | Nickel        | mg/kg | 2.60E+02 | 2.85E-04  | 1.60E-04 | 3.07E-08   |                   |
| 520  | 1  | Surface | Silver        | mg/kg | 1.30E+01 | 1.42E-05  | 7.96E-06 | 1.53E-09   |                   |
| 520  | 1  | Surface | Total PAH     | mg/kg | 3.18E-02 | 3.49E-08  | 6.35E-08 | 2.78E-10   |                   |
| 520  | 1  | Surface | Uranium       | mg/kg | 2.29E+01 | 2.51E-05  | 1.76E-05 | 2.70E-09   |                   |
| 520  | 1  | Surface | Cesium-137    | pCi/g | 9.62E-01 | 4.04E+02  |          | 4.34E-02   | 4.43E+00          |
| 520  | 1  | Surface | Neptunium-237 | pCi/g | 6.56E-01 | 2.76E+02  |          | 2.96E-02   | 3.02E+00          |
| 520  | 1  | Surface | Thorium-230   | pCi/g | 1.13E+01 | 4.76E+03  |          | 5.12E-01   | 5.22E+01          |
| 520  | 1  | Surface | Uranium-235   | pCi/g | 1.26E-01 | 5.29E+01  |          | 5.69E-03   | 5.80E-01          |
| 520  | 1  | Surface | Uranium-238   | pCi/g | 3.93E+00 | 1.65E+03  |          | 1.77E-01   | 1.81E+01          |
| 520  | 2  | Surface | Beryllium     | mg/kg | 5.79E-01 | 6.35E-07  | 6.22E-08 | 6.82E-11   |                   |
| 520  | 2  | Surface | Chromium      | mg/kg | 6.67E+01 | 7.30E-05  | 5.11E-05 | 7.85E-09   |                   |
| 520  | 2  | Surface | Manganese     | mg/kg | 5.89E+02 | 6.46E-04  | 3.62E-04 | 6.94E-08   |                   |
| 520  | 2  | Surface | Mercury       | mg/kg | 1.19E+01 | 1.30E-05  | 9.11E-06 | 4.20E-05   |                   |
| 520  | 2  | Surface | Nickel        | mg/kg | 3.11E+02 | 3.40E-04  | 1.91E-04 | 3.66E-08   |                   |
| 520  | 2  | Surface | Total PAH     | mg/kg | 3.17E-01 | 3.47E-07  | 6.32E-07 | 2.77E-09   |                   |
| 520  | 2  | Surface | Uranium       | mg/kg | 3.96E+01 | 4.34E-05  | 3.03E-05 | 4.66E-09   |                   |
| 520  | 2  | Surface | Neptunium-237 | pCi/g | 7.48E-02 | 3.14E+01  |          | 3.38E-03   | 3.44E-01          |
| 520  | 2  | Surface | Uranium-238   | pCi/g | 1.78E+00 | 7.47E+02  |          | 8.03E-02   | 8.18E+00          |
| 520  | 3  | Surface | Chromium      | mg/kg | 3.97E+01 | 4.35E-05  | 3.04E-05 | 4.67E-09   |                   |
| 520  | 3  | Surface | Copper        | mg/kg | 1.19E+02 | 1.30E-04  | 9.13E-05 | 1.40E-08   |                   |
| 520  | 3  | Surface | Nickel        | mg/kg | 2.65E+02 | 2.90E-04  | 1.63E-04 | 3.12E-08   |                   |
| 520  | 3  | Surface | Silver        | mg/kg | 1.27E+01 | 1.39E-05  | 7.78E-06 | 1.49E-09   |                   |
| 520  | 3  | Surface | Total PAH     | mg/kg | 1.18E-01 | 1.29E-07  | 2.36E-07 | 1.03E-09   |                   |
| 520  | 3  | Surface | Uranium       | mg/kg | 1.92E+01 | 2.11E-05  | 1.48E-05 | 2.27E-09   |                   |
| 520  | 3  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 6.59E+02  |          | 7.09E-02   | 7.23E+00          |
| 520  | 4  | Surface | Chromium      | mg/kg | 3.82E+01 | 4.19E-05  | 2.93E-05 | 4.50E-09   |                   |
| 520  | 4  | Surface | Copper        | mg/kg | 1.11E+02 | 1.21E-04  | 8.48E-05 | 1.30E-08   |                   |
| 520  | 4  | Surface | Mercury       | mg/kg | 9.69E+00 | 1.06E-05  | 7.43E-06 | 3.42E-05   |                   |
| 520  | 4  | Surface | Nickel        | mg/kg | 2.82E+02 | 3.09E-04  | 1.73E-04 | 3.32E-08   |                   |
| 520  | 4  | Surface | Silver        | mg/kg | 1.04E+01 | 1.14E-05  | 6.41E-06 | 1.23E-09   |                   |
| 520  | 4  | Surface | Total PAH     | mg/kg | 5.52E-01 | 6.05E-07  | 1.10E-06 | 4.83E-09   |                   |
| 520  | 4  | Surface | Uranium       | mg/kg | 2.40E+01 | 2.63E-05  | 1.84E-05 | 2.83E-09   |                   |
| 520  | 4  | Surface | Neptunium-237 | pCi/g | 7.40E-01 | 3.11E+02  |          | 3.34E-02   | 3.41E+00          |
| 520  | 4  | Surface | Uranium-235   | pCi/g | 2.42E-01 | 1.02E+02  |          | 1.09E-02   | 1.11E+00          |
| 520  | 4  | Surface | Uranium-238   | pCi/g | 6.26E+00 | 2.63E+03  |          | 2.83E-01   | 2.88E+01          |
| 520  | 5  | Surface | Antimony      | mg/kg | 9.60E-01 | 1.05E-06  | 7.36E-07 | 1.13E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.20. Cancerous CDIs for the Child Resident (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 520  | 5  | Surface | Chromium      | mg/kg | 3.68E+01 | 4.04E-05  | 2.82E-05 | 4.34E-09   |                   |
| 520  | 5  | Surface | Nickel        | mg/kg | 1.47E+02 | 1.61E-04  | 9.02E-05 | 1.73E-08   |                   |
| 520  | 5  | Surface | Total PAH     | mg/kg | 3.87E-01 | 4.24E-07  | 7.72E-07 | 3.39E-09   |                   |
| 520  | 5  | Surface | Neptunium-237 | pCi/g | 1.55E-01 | 6.51E+01  |          | 7.00E-03   | 7.13E-01          |
| 520  | 5  | Surface | Uranium-238   | pCi/g | 1.45E+00 | 6.09E+02  |          | 6.55E-02   | 6.67E+00          |
| 81   | 1  | Surface | Aluminum      | mg/kg | 9.57E+03 | 1.05E-02  | 7.34E-03 | 1.13E-06   |                   |
| 81   | 1  | Surface | Arsenic       | mg/kg | 1.03E+01 | 1.12E-05  | 4.72E-06 | 1.21E-09   |                   |
| 81   | 1  | Surface | Beryllium     | mg/kg | 7.57E-01 | 8.30E-07  | 8.13E-08 | 8.92E-11   |                   |
| 81   | 1  | Surface | Chromium      | mg/kg | 8.62E+01 | 9.45E-05  | 6.61E-05 | 1.02E-08   |                   |
| 81   | 1  | Surface | Mercury       | mg/kg | 8.33E+00 | 9.13E-06  | 6.39E-06 | 2.94E-05   |                   |
| 81   | 1  | Surface | Nickel        | mg/kg | 7.29E+01 | 7.99E-05  | 4.47E-05 | 8.58E-09   |                   |
| 81   | 1  | Surface | PCB, Total    | mg/kg | 1.60E+02 | 1.75E-04  | 3.43E-04 | 3.20E-05   |                   |
| 81   | 1  | Surface | Silver        | mg/kg | 2.70E+00 | 2.96E-06  | 1.66E-06 | 3.18E-10   |                   |
| 81   | 1  | Surface | Total PAH     | mg/kg | 5.53E-01 | 6.06E-07  | 1.10E-06 | 4.84E-09   |                   |
| 81   | 1  | Surface | Uranium       | mg/kg | 6.50E+03 | 7.12E-03  | 4.99E-03 | 7.66E-07   |                   |
| 81   | 1  | Surface | Uranium-238   | pCi/g | 2.29E+00 | 9.60E+02  |          | 1.03E-01   | 1.05E+01          |
| 153  | 1  | Surface | PCB, Total    | mg/kg | 5.09E-01 | 5.58E-07  | 1.09E-06 | 1.02E-07   |                   |
| 153  | 1  | Surface | Total PAH     | mg/kg | 8.69E-02 | 9.52E-08  | 1.73E-07 | 7.60E-10   |                   |
| 156  | 1  | Surface | Chromium      | mg/kg | 4.90E+01 | 5.37E-05  | 3.76E-05 | 5.78E-09   |                   |
| 156  | 1  | Surface | Manganese     | mg/kg | 2.83E+03 | 3.10E-03  | 1.74E-03 | 3.34E-07   |                   |
| 156  | 1  | Surface | Mercury       | mg/kg | 9.87E+00 | 1.08E-05  | 7.57E-06 | 3.49E-05   |                   |
| 156  | 1  | Surface | Nickel        | mg/kg | 6.16E+01 | 6.75E-05  | 3.78E-05 | 7.26E-09   |                   |
| 156  | 1  | Surface | PCB, Total    | mg/kg | 3.00E-01 | 3.29E-07  | 6.44E-07 | 6.00E-08   |                   |
| 156  | 1  | Surface | Total PAH     | mg/kg | 8.26E-02 | 9.05E-08  | 1.65E-07 | 7.22E-10   |                   |
| 156  | 1  | Surface | Uranium       | mg/kg | 2.32E+01 | 2.54E-05  | 1.78E-05 | 2.73E-09   |                   |
| 156  | 1  | Surface | Uranium-238   | pCi/g | 2.19E+00 | 9.20E+02  |          | 9.89E-02   | 1.01E+01          |
| 160  | 1  | Surface | Antimony      | mg/kg | 6.80E-01 | 7.45E-07  | 5.22E-07 | 8.01E-11   |                   |
| 160  | 1  | Surface | Total PAH     | mg/kg | 5.29E-02 | 5.80E-08  | 1.06E-07 | 4.63E-10   |                   |
| 163  | 1  | Surface | Chromium      | mg/kg | 4.94E+01 | 5.42E-05  | 3.79E-05 | 5.82E-09   |                   |
| 163  | 1  | Surface | Total PAH     | mg/kg | 1.63E-01 | 1.79E-07  | 3.25E-07 | 1.43E-09   |                   |
| 219  | 1  | Surface | Nickel        | mg/kg | 6.71E+01 | 7.36E-05  | 4.12E-05 | 7.91E-09   |                   |
| 219  | 1  | Surface | Total PAH     | mg/kg | 7.50E-02 | 8.22E-08  | 1.50E-07 | 6.56E-10   |                   |
| 219  | 1  | Surface | Neptunium-237 | pCi/g | 3.31E-01 | 1.39E+02  |          | 1.49E-02   | 1.52E+00          |
| 219  | 1  | Surface | Uranium-235   | pCi/g | 1.92E-01 | 8.06E+01  |          | 8.67E-03   | 8.84E-01          |
| 219  | 1  | Surface | Uranium-238   | pCi/g | 4.40E+00 | 1.85E+03  |          | 1.99E-01   | 2.03E+01          |
| 488  | 1  | Surface | PCB, Total    | mg/kg | 1.03E+01 | 1.13E-05  | 2.21E-05 | 2.06E-06   |                   |
| 488  | 1  | Surface | Total PAH     | mg/kg | 2.50E-01 | 2.74E-07  | 4.98E-07 | 2.18E-09   |                   |
| 488  | 1  | Surface | Uranium       | mg/kg | 1.48E+01 | 1.62E-05  | 1.14E-05 | 1.74E-09   |                   |
| 488  | 1  | Surface | Cesium-137    | pCi/g | 5.20E-01 | 2.18E+02  |          | 2.35E-02   | 2.39E+00          |
| 488  | 1  | Surface | Uranium-235   | pCi/g | 1.49E-01 | 6.26E+01  |          | 6.73E-03   | 6.86E-01          |
| 488  | 1  | Surface | Uranium-238   | pCi/g | 4.54E+00 | 1.91E+03  |          | 2.05E-01   | 2.09E+01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 1           | 1         | Surface      | Beryllium   | mg/kg        | 3.89E+00   | 7.24E-07         | 1.82E-06      | 4.67E-10          |
| 1           | 1         | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 2.04E-07         | 7.36E-08      | 1.32E-10          |
| 1           | 1         | Surface      | Chromium    | mg/kg        | 1.28E+01   | 2.38E-06         | 4.29E-05      | 1.54E-09          |
| 1           | 1         | Surface      | PCB, Total  | mg/kg        | 1.76E-01   | 3.27E-08         | 1.65E-06      | 3.58E-08          |
| 1           | 2         | Surface      | Beryllium   | mg/kg        | 8.23E+00   | 1.53E-06         | 3.85E-06      | 9.87E-10          |
| 1           | 2         | Surface      | Cadmium     | mg/kg        | 6.46E+00   | 1.20E-06         | 4.32E-07      | 7.75E-10          |
| 1           | 2         | Surface      | Chromium    | mg/kg        | 2.01E+02   | 3.74E-05         | 6.73E-04      | 2.41E-08          |
| 1           | 2         | Surface      | Copper      | mg/kg        | 1.81E+02   | 3.36E-05         | 6.05E-04      | 2.17E-08          |
| 1           | 2         | Surface      | Mercury     | mg/kg        | 5.94E+00   | 1.10E-06         | 1.99E-05      | 2.14E-05          |
| 1           | 2         | Surface      | Nickel      | mg/kg        | 5.75E+01   | 1.07E-05         | 1.54E-04      | 6.89E-09          |
| 1           | 2         | Surface      | PCB, Total  | mg/kg        | 3.21E+01   | 5.97E-06         | 3.01E-04      | 6.54E-06          |
| 1           | 2         | Surface      | Silver      | mg/kg        | 3.31E+01   | 6.16E-06         | 8.87E-05      | 3.97E-09          |
| 1           | 2         | Surface      | Thallium    | mg/kg        | 3.70E-01   | 6.88E-08         | 1.24E-06      | 4.44E-11          |
| 1           | 2         | Surface      | Vanadium    | mg/kg        | 3.49E+01   | 6.48E-06         | 6.06E-05      | 4.18E-09          |
| 1           | 3         | Surface      | Chromium    | mg/kg        | 1.45E+01   | 2.69E-06         | 4.84E-05      | 1.73E-09          |
| 1           | 3         | Surface      | PCB, Total  | mg/kg        | 2.17E-01   | 4.03E-08         | 2.03E-06      | 4.42E-08          |
| 1           | 4         | Surface      | Beryllium   | mg/kg        | 7.25E-01   | 1.35E-07         | 3.40E-07      | 8.69E-11          |
| 1           | 4         | Surface      | Chromium    | mg/kg        | 9.30E+01   | 1.73E-05         | 3.11E-04      | 1.12E-08          |
| 1           | 4         | Surface      | Nickel      | mg/kg        | 4.69E+01   | 8.71E-06         | 1.25E-04      | 5.62E-09          |
| 1           | 4         | Surface      | PCB, Total  | mg/kg        | 1.30E-01   | 2.42E-08         | 1.22E-06      | 2.65E-08          |
| 1           | 5         | Surface      | Beryllium   | mg/kg        | 8.30E+00   | 1.54E-06         | 3.89E-06      | 9.95E-10          |
| 1           | 5         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 2.23E-07         | 8.03E-08      | 1.44E-10          |
| 1           | 5         | Surface      | Nickel      | mg/kg        | 4.07E+01   | 7.56E-06         | 1.09E-04      | 4.88E-09          |
| 1           | 5         | Surface      | PCB, Total  | mg/kg        | 2.70E-01   | 5.02E-08         | 2.53E-06      | 5.50E-08          |
| 1           | 5         | Surface      | Total PAH   | mg/kg        | 9.83E-02   | 1.83E-08         | 8.55E-07      | 8.75E-10          |
| 99          | 1         | Surface      | Chromium    | mg/kg        | 5.51E+01   | 1.02E-05         | 1.84E-04      | 6.61E-09          |
| 99          | 1         | Surface      | Mercury     | mg/kg        | 9.53E+00   | 1.77E-06         | 3.19E-05      | 3.43E-05          |
| 99          | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 1.30E-05         | 1.88E-04      | 8.42E-09          |
| 99          | 1         | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.91E-06         | 2.76E-05      | 1.23E-09          |
| 194         | 1         | Surface      | Antimony    | mg/kg        | 1.50E+00   | 2.79E-07         | 5.02E-06      | 1.80E-10          |
| 194         | 1         | Surface      | Chromium    | mg/kg        | 3.87E+01   | 7.19E-06         | 1.29E-04      | 4.64E-09          |
| 194         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 1.25E-06         | 2.24E-05      | 2.41E-05          |
| 194         | 1         | Surface      | Nickel      | mg/kg        | 5.84E+01   | 1.09E-05         | 1.56E-04      | 7.00E-09          |
| 194         | 1         | Surface      | Silver      | mg/kg        | 1.09E+01   | 2.03E-06         | 2.92E-05      | 1.31E-09          |
| 194         | 2         | Surface      | Chromium    | mg/kg        | 5.96E+01   | 1.11E-05         | 1.99E-04      | 7.15E-09          |
| 194         | 2         | Surface      | Silver      | mg/kg        | 1.31E+01   | 2.44E-06         | 3.51E-05      | 1.57E-09          |
| 194         | 2         | Surface      | Uranium     | mg/kg        | 2.28E+01   | 4.23E-06         | 7.62E-05      | 2.73E-09          |
| 194         | 3         | Surface      | Antimony    | mg/kg        | 6.90E-01   | 1.28E-07         | 2.31E-06      | 8.27E-11          |
| 194         | 3         | Surface      | Arsenic     | mg/kg        | 1.46E+01   | 2.72E-06         | 2.94E-05      | 1.76E-09          |
| 194         | 3         | Surface      | Chromium    | mg/kg        | 3.90E+01   | 7.24E-06         | 1.30E-04      | 4.67E-09          |
| 194         | 3         | Surface      | Nickel      | mg/kg        | 6.40E+01   | 1.19E-05         | 1.71E-04      | 7.68E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 3         | Surface      | Total PAH   | mg/kg        | 3.93E-02   | 7.30E-09         | 3.42E-07      | 3.50E-10          |
| 194         | 4         | Surface      | Chromium    | mg/kg        | 4.84E+01   | 9.00E-06         | 1.62E-04      | 5.80E-09          |
| 194         | 4         | Surface      | Mercury     | mg/kg        | 8.92E+00   | 1.66E-06         | 2.98E-05      | 3.21E-05          |
| 194         | 4         | Surface      | Nickel      | mg/kg        | 6.91E+01   | 1.28E-05         | 1.85E-04      | 8.28E-09          |
| 194         | 4         | Surface      | Silver      | mg/kg        | 1.18E+01   | 2.19E-06         | 3.15E-05      | 1.41E-09          |
| 194         | 4         | Surface      | Total PAH   | mg/kg        | 7.30E-02   | 1.36E-08         | 6.34E-07      | 6.49E-10          |
| 194         | 5         | Surface      | Chromium    | mg/kg        | 4.58E+01   | 8.51E-06         | 1.53E-04      | 5.49E-09          |
| 194         | 5         | Surface      | Mercury     | mg/kg        | 8.69E+00   | 1.61E-06         | 2.91E-05      | 3.13E-05          |
| 194         | 5         | Surface      | Nickel      | mg/kg        | 7.54E+01   | 1.40E-05         | 2.02E-04      | 9.04E-09          |
| 194         | 5         | Surface      | Silver      | mg/kg        | 1.25E+01   | 2.31E-06         | 3.33E-05      | 1.49E-09          |
| 194         | 5         | Surface      | Total PAH   | mg/kg        | 2.37E-02   | 4.40E-09         | 2.06E-07      | 2.11E-10          |
| 194         | 6         | Surface      | Chromium    | mg/kg        | 3.70E+01   | 6.88E-06         | 1.24E-04      | 4.44E-09          |
| 194         | 6         | Surface      | Manganese   | mg/kg        | 1.08E+03   | 2.01E-04         | 2.89E-03      | 1.29E-07          |
| 194         | 6         | Surface      | Nickel      | mg/kg        | 8.06E+01   | 1.50E-05         | 2.16E-04      | 9.66E-09          |
| 194         | 6         | Surface      | Silver      | mg/kg        | 9.89E+00   | 1.84E-06         | 2.65E-05      | 1.19E-09          |
| 194         | 7         | Surface      | Chromium    | mg/kg        | 5.32E+01   | 9.89E-06         | 1.78E-04      | 6.38E-09          |
| 194         | 7         | Surface      | Nickel      | mg/kg        | 7.71E+01   | 1.43E-05         | 2.06E-04      | 9.25E-09          |
| 194         | 7         | Surface      | Silver      | mg/kg        | 1.25E+01   | 2.32E-06         | 3.35E-05      | 1.50E-09          |
| 194         | 8         | Surface      | Chromium    | mg/kg        | 5.36E+01   | 9.96E-06         | 1.79E-04      | 6.42E-09          |
| 194         | 8         | Surface      | Manganese   | mg/kg        | 8.00E+02   | 1.49E-04         | 2.14E-03      | 9.59E-08          |
| 194         | 8         | Surface      | Total PAH   | mg/kg        | 4.85E-01   | 9.01E-08         | 4.22E-06      | 4.32E-09          |
| 194         | 9         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 2.12E-06         | 2.29E-05      | 1.37E-09          |
| 194         | 9         | Surface      | Chromium    | mg/kg        | 5.17E+01   | 9.60E-06         | 1.73E-04      | 6.19E-09          |
| 194         | 10        | Surface      | Arsenic     | mg/kg        | 1.22E+01   | 2.26E-06         | 2.44E-05      | 1.46E-09          |
| 194         | 10        | Surface      | Chromium    | mg/kg        | 3.63E+01   | 6.74E-06         | 1.21E-04      | 4.35E-09          |
| 194         | 10        | Surface      | Nickel      | mg/kg        | 7.60E+01   | 1.41E-05         | 2.03E-04      | 9.11E-09          |
| 194         | 10        | Surface      | Total PAH   | mg/kg        | 2.57E-01   | 4.78E-08         | 2.24E-06      | 2.29E-09          |
| 194         | 11        | Surface      | Chromium    | mg/kg        | 3.27E+01   | 6.07E-06         | 1.09E-04      | 3.92E-09          |
| 194         | 11        | Surface      | Mercury     | mg/kg        | 8.09E+00   | 1.50E-06         | 2.71E-05      | 2.91E-05          |
| 194         | 11        | Surface      | Nickel      | mg/kg        | 1.01E+02   | 1.87E-05         | 2.69E-04      | 1.21E-08          |
| 194         | 11        | Surface      | PCB, Total  | mg/kg        | 8.40E-02   | 1.56E-08         | 7.87E-07      | 1.71E-08          |
| 194         | 11        | Surface      | Silver      | mg/kg        | 1.33E+01   | 2.47E-06         | 3.56E-05      | 1.59E-09          |
| 194         | 11        | Surface      | Total PAH   | mg/kg        | 7.95E-02   | 1.48E-08         | 6.92E-07      | 7.08E-10          |
| 194         | 12        | Surface      | Chromium    | mg/kg        | 6.34E+01   | 1.18E-05         | 2.12E-04      | 7.60E-09          |
| 194         | 12        | Surface      | Nickel      | mg/kg        | 7.86E+01   | 1.46E-05         | 2.10E-04      | 9.42E-09          |
| 194         | 12        | Surface      | Silver      | mg/kg        | 1.20E+01   | 2.23E-06         | 3.21E-05      | 1.44E-09          |
| 194         | 12        | Surface      | Total PAH   | mg/kg        | 8.91E-01   | 1.66E-07         | 7.75E-06      | 7.93E-09          |
| 194         | 13        | Surface      | Chromium    | mg/kg        | 4.77E+01   | 8.85E-06         | 1.59E-04      | 5.71E-09          |
| 194         | 13        | Surface      | Nickel      | mg/kg        | 6.03E+01   | 1.12E-05         | 1.61E-04      | 7.23E-09          |
| 194         | 13        | Surface      | Total PAH   | mg/kg        | 9.13E-02   | 1.70E-08         | 7.94E-07      | 8.13E-10          |
| 194         | 14        | Surface      | Chromium    | mg/kg        | 5.21E+01   | 9.69E-06         | 1.74E-04      | 6.25E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 14        | Surface      | Mercury     | mg/kg        | 8.14E+00   | 1.51E-06         | 2.72E-05      | 2.93E-05          |
| 194         | 15        | Surface      | Chromium    | mg/kg        | 5.33E+01   | 9.91E-06         | 1.78E-04      | 6.39E-09          |
| 194         | 15        | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.92E-06         | 2.76E-05      | 1.24E-09          |
| 194         | 16        | Surface      | Antimony    | mg/kg        | 7.40E-01   | 1.38E-07         | 2.48E-06      | 8.87E-11          |
| 194         | 16        | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 2.14E-06         | 2.31E-05      | 1.38E-09          |
| 194         | 16        | Surface      | Beryllium   | mg/kg        | 8.70E-01   | 1.62E-07         | 4.07E-07      | 1.04E-10          |
| 194         | 16        | Surface      | Chromium    | mg/kg        | 5.32E+01   | 9.89E-06         | 1.78E-04      | 6.38E-09          |
| 194         | 16        | Surface      | Nickel      | mg/kg        | 7.20E+01   | 1.34E-05         | 1.93E-04      | 8.64E-09          |
| 194         | 16        | Surface      | Thallium    | mg/kg        | 6.30E-01   | 1.17E-07         | 2.11E-06      | 7.55E-11          |
| 194         | 16        | Surface      | Vanadium    | mg/kg        | 4.11E+01   | 7.64E-06         | 7.15E-05      | 4.93E-09          |
| 194         | 17        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 2.15E-06         | 2.32E-05      | 1.38E-09          |
| 194         | 17        | Surface      | Cadmium     | mg/kg        | 1.10E+00   | 2.04E-07         | 7.36E-08      | 1.32E-10          |
| 194         | 17        | Surface      | Chromium    | mg/kg        | 4.65E+01   | 8.64E-06         | 1.55E-04      | 5.57E-09          |
| 194         | 17        | Surface      | Total PAH   | mg/kg        | 1.59E-01   | 2.95E-08         | 1.38E-06      | 1.41E-09          |
| 194         | 18        | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 1.96E-06         | 2.12E-05      | 1.27E-09          |
| 194         | 18        | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 1.38E-07         | 3.47E-07      | 8.87E-11          |
| 194         | 18        | Surface      | Chromium    | mg/kg        | 6.85E+01   | 1.27E-05         | 2.29E-04      | 8.21E-09          |
| 194         | 18        | Surface      | Nickel      | mg/kg        | 5.78E+01   | 1.07E-05         | 1.55E-04      | 6.93E-09          |
| 194         | 19        | Surface      | Arsenic     | mg/kg        | 1.07E+01   | 1.99E-06         | 2.15E-05      | 1.28E-09          |
| 194         | 19        | Surface      | Chromium    | mg/kg        | 4.84E+01   | 8.99E-06         | 1.62E-04      | 5.80E-09          |
| 194         | 19        | Surface      | Nickel      | mg/kg        | 5.84E+01   | 1.08E-05         | 1.56E-04      | 7.00E-09          |
| 194         | 20        | Surface      | Arsenic     | mg/kg        | 1.18E+01   | 2.20E-06         | 2.38E-05      | 1.42E-09          |
| 194         | 20        | Surface      | Barium      | mg/kg        | 3.26E+02   | 6.06E-05         | 1.09E-03      | 3.91E-08          |
| 194         | 20        | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 2.04E-07         | 5.15E-07      | 1.32E-10          |
| 194         | 20        | Surface      | Chromium    | mg/kg        | 5.24E+01   | 9.73E-06         | 1.75E-04      | 6.28E-09          |
| 194         | 20        | Surface      | Cobalt      | mg/kg        | 2.11E+01   | 3.92E-06         | 7.06E-05      | 2.53E-09          |
| 194         | 20        | Surface      | Manganese   | mg/kg        | 2.29E+03   | 4.26E-04         | 6.14E-03      | 2.75E-07          |
| 194         | 20        | Surface      | Mercury     | mg/kg        | 7.28E+00   | 1.35E-06         | 2.44E-05      | 2.62E-05          |
| 194         | 20        | Surface      | Nickel      | mg/kg        | 6.57E+01   | 1.22E-05         | 1.76E-04      | 7.88E-09          |
| 194         | 20        | Surface      | Silver      | mg/kg        | 1.22E+01   | 2.27E-06         | 3.27E-05      | 1.47E-09          |
| 194         | 20        | Surface      | Total PAH   | mg/kg        | 3.10E-02   | 5.76E-09         | 2.70E-07      | 2.76E-10          |
| 194         | 20        | Surface      | Vanadium    | mg/kg        | 3.81E+01   | 7.08E-06         | 6.63E-05      | 4.57E-09          |
| 194         | 21        | Surface      | Antimony    | mg/kg        | 9.30E-01   | 1.73E-07         | 3.11E-06      | 1.12E-10          |
| 194         | 21        | Surface      | Chromium    | mg/kg        | 5.51E+01   | 1.02E-05         | 1.84E-04      | 6.60E-09          |
| 194         | 21        | Surface      | Mercury     | mg/kg        | 6.62E+00   | 1.23E-06         | 2.21E-05      | 2.38E-05          |
| 194         | 21        | Surface      | Nickel      | mg/kg        | 7.01E+01   | 1.30E-05         | 1.88E-04      | 8.41E-09          |
| 194         | 21        | Surface      | Thallium    | mg/kg        | 6.40E-01   | 1.19E-07         | 2.14E-06      | 7.67E-11          |
| 194         | 22        | Surface      | Chromium    | mg/kg        | 4.90E+01   | 9.10E-06         | 1.64E-04      | 5.87E-09          |
| 194         | 22        | Surface      | Manganese   | mg/kg        | 8.19E+02   | 1.52E-04         | 2.19E-03      | 9.82E-08          |
| 194         | 22        | Surface      | PCB, Total  | mg/kg        | 1.09E+01   | 2.03E-06         | 1.02E-04      | 2.22E-06          |
| 194         | 23        | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 2.15E-06         | 2.32E-05      | 1.38E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 194         | 23        | Surface      | Chromium    | mg/kg        | 6.60E+01   | 1.23E-05         | 2.21E-04      | 7.91E-09          |
| 194         | 23        | Surface      | Iron        | mg/kg        | 1.83E+04   | 3.40E-03         | 6.12E-02      | 2.19E-06          |
| 194         | 23        | Surface      | Nickel      | mg/kg        | 8.77E+01   | 1.63E-05         | 2.35E-04      | 1.05E-08          |
| 194         | 23        | Surface      | Silver      | mg/kg        | 1.15E+01   | 2.13E-06         | 3.07E-05      | 1.38E-09          |
| 194         | 24        | Surface      | Chromium    | mg/kg        | 5.02E+01   | 9.33E-06         | 1.68E-04      | 6.02E-09          |
| 194         | 24        | Surface      | Nickel      | mg/kg        | 7.08E+01   | 1.32E-05         | 1.89E-04      | 8.48E-09          |
| 194         | 24        | Surface      | Total PAH   | mg/kg        | 2.28E-02   | 4.24E-09         | 1.98E-07      | 2.03E-10          |
| 194         | 25        | Surface      | Barium      | mg/kg        | 3.00E+02   | 5.58E-05         | 1.00E-03      | 3.60E-08          |
| 194         | 25        | Surface      | Chromium    | mg/kg        | 6.13E+01   | 1.14E-05         | 2.05E-04      | 7.34E-09          |
| 194         | 25        | Surface      | Manganese   | mg/kg        | 9.96E+02   | 1.85E-04         | 2.66E-03      | 1.19E-07          |
| 194         | 25        | Surface      | Nickel      | mg/kg        | 6.33E+01   | 1.18E-05         | 1.69E-04      | 7.59E-09          |
| 194         | 25        | Surface      | Total PAH   | mg/kg        | 2.06E-02   | 3.83E-09         | 1.79E-07      | 1.83E-10          |
| 194         | 26        | Surface      | Beryllium   | mg/kg        | 7.00E-01   | 1.30E-07         | 3.28E-07      | 8.39E-11          |
| 194         | 26        | Surface      | Chromium    | mg/kg        | 4.18E+01   | 7.77E-06         | 1.40E-04      | 5.01E-09          |
| 194         | 26        | Surface      | Silver      | mg/kg        | 1.03E+01   | 1.91E-06         | 2.75E-05      | 1.23E-09          |
| 194         | 26        | Surface      | Thallium    | mg/kg        | 3.90E-01   | 7.25E-08         | 1.30E-06      | 4.68E-11          |
| 194         | 27        | Surface      | Chromium    | mg/kg        | 5.22E+01   | 9.69E-06         | 1.75E-04      | 6.25E-09          |
| 194         | 27        | Surface      | Nickel      | mg/kg        | 6.55E+01   | 1.22E-05         | 1.75E-04      | 7.85E-09          |
| 194         | 27        | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.88E-06         | 2.71E-05      | 1.21E-09          |
| 194         | 28        | Surface      | Arsenic     | mg/kg        | 1.20E+01   | 2.24E-06         | 2.41E-05      | 1.44E-09          |
| 194         | 28        | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 1.32E-07         | 3.32E-07      | 8.51E-11          |
| 194         | 28        | Surface      | Chromium    | mg/kg        | 6.07E+01   | 1.13E-05         | 2.03E-04      | 7.28E-09          |
| 194         | 28        | Surface      | Manganese   | mg/kg        | 1.14E+03   | 2.11E-04         | 3.05E-03      | 1.36E-07          |
| 194         | 28        | Surface      | Nickel      | mg/kg        | 6.95E+01   | 1.29E-05         | 1.86E-04      | 8.33E-09          |
| 194         | 28        | Surface      | Silver      | mg/kg        | 1.08E+01   | 2.01E-06         | 2.89E-05      | 1.29E-09          |
| 194         | 28        | Surface      | Vanadium    | mg/kg        | 4.06E+01   | 7.54E-06         | 7.06E-05      | 4.87E-09          |
| 194         | 29        | Surface      | Antimony    | mg/kg        | 7.10E-01   | 1.32E-07         | 2.37E-06      | 8.51E-11          |
| 194         | 29        | Surface      | Chromium    | mg/kg        | 5.06E+01   | 9.40E-06         | 1.69E-04      | 6.06E-09          |
| 194         | 29        | Surface      | Nickel      | mg/kg        | 6.51E+01   | 1.21E-05         | 1.74E-04      | 7.81E-09          |
| 194         | 29        | Surface      | Silver      | mg/kg        | 9.77E+00   | 1.82E-06         | 2.61E-05      | 1.17E-09          |
| 194         | 30        | Surface      | Chromium    | mg/kg        | 5.66E+01   | 1.05E-05         | 1.89E-04      | 6.78E-09          |
| 194         | 30        | Surface      | Mercury     | mg/kg        | 8.80E+00   | 1.64E-06         | 2.94E-05      | 3.17E-05          |
| 194         | 30        | Surface      | Nickel      | mg/kg        | 6.99E+01   | 1.30E-05         | 1.87E-04      | 8.38E-09          |
| 194         | 30        | Surface      | Silver      | mg/kg        | 9.76E+00   | 1.81E-06         | 2.61E-05      | 1.17E-09          |
| 196         | 1         | Surface      | Antimony    | mg/kg        | 5.90E-01   | 1.10E-07         | 1.97E-06      | 7.07E-11          |
| 196         | 1         | Surface      | Chromium    | mg/kg        | 1.96E+01   | 3.64E-06         | 6.56E-05      | 2.35E-09          |
| 196         | 1         | Surface      | Nickel      | mg/kg        | 5.56E+02   | 1.03E-04         | 1.49E-03      | 6.67E-08          |
| 196         | 1         | Surface      | Uranium     | mg/kg        | 2.33E+01   | 4.33E-06         | 7.79E-05      | 2.79E-09          |
| 196         | 2         | Surface      | Barium      | mg/kg        | 2.02E+02   | 3.75E-05         | 6.76E-04      | 2.42E-08          |
| 196         | 2         | Surface      | Cadmium     | mg/kg        | 2.53E+00   | 4.70E-07         | 1.69E-07      | 3.03E-10          |
| 196         | 2         | Surface      | Chromium    | mg/kg        | 2.07E+01   | 3.85E-06         | 6.92E-05      | 2.48E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration



**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 196         | 2         | Surface      | Nickel      | mg/kg        | 7.36E+01   | 1.37E-05         | 1.97E-04      | 8.82E-09          |
| 196         | 2         | Surface      | PCB, Total  | mg/kg        | 1.51E+00   | 2.81E-07         | 1.41E-05      | 3.07E-07          |
| 196         | 2         | Surface      | Total PAH   | mg/kg        | 6.80E-01   | 1.26E-07         | 5.91E-06      | 6.05E-09          |
| 489         | 1         | Surface      | Chromium    | mg/kg        | 4.16E+01   | 7.74E-06         | 1.39E-04      | 4.99E-09          |
| 489         | 1         | Surface      | Nickel      | mg/kg        | 7.88E+01   | 1.46E-05         | 2.11E-04      | 9.45E-09          |
| 489         | 1         | Surface      | Total PAH   | mg/kg        | 8.22E-02   | 1.53E-08         | 7.15E-07      | 7.31E-10          |
| 531         | 1         | Surface      | Antimony    | mg/kg        | 1.00E+00   | 1.86E-07         | 3.35E-06      | 1.20E-10          |
| 531         | 1         | Surface      | Arsenic     | mg/kg        | 4.68E+01   | 8.70E-06         | 9.40E-05      | 5.61E-09          |
| 531         | 1         | Surface      | Cadmium     | mg/kg        | 3.10E+00   | 5.76E-07         | 2.07E-07      | 3.72E-10          |
| 531         | 1         | Surface      | Chromium    | mg/kg        | 5.05E+01   | 9.38E-06         | 1.69E-04      | 6.05E-09          |
| 531         | 1         | Surface      | Iron        | mg/kg        | 5.68E+04   | 1.06E-02         | 1.90E-01      | 6.81E-06          |
| 531         | 1         | Surface      | Nickel      | mg/kg        | 1.62E+02   | 3.01E-05         | 4.34E-04      | 1.95E-08          |
| 531         | 1         | Surface      | Total PAH   | mg/kg        | 5.34E-02   | 9.92E-09         | 4.64E-07      | 4.75E-10          |
| 531         | 1         | Surface      | Uranium     | mg/kg        | 2.41E+01   | 4.47E-06         | 8.05E-05      | 2.89E-09          |
| 531         | 1         | Surface      | Zinc        | mg/kg        | 2.45E+03   | 4.56E-04         | 8.20E-03      | 2.94E-07          |
| 200         | 1         | Surface      | Antimony    | mg/kg        | 5.60E-01   | 1.04E-07         | 1.87E-06      | 6.71E-11          |
| 200         | 1         | Surface      | Chromium    | mg/kg        | 5.75E+01   | 1.07E-05         | 1.92E-04      | 6.90E-09          |
| 200         | 1         | Surface      | Mercury     | mg/kg        | 6.71E+00   | 1.25E-06         | 2.24E-05      | 2.41E-05          |
| 200         | 1         | Surface      | Nickel      | mg/kg        | 1.28E+02   | 2.38E-05         | 3.43E-04      | 1.53E-08          |
| 200         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E+00   | 4.83E-07         | 2.44E-05      | 5.29E-07          |
| 200         | 1         | Surface      | Total PAH   | mg/kg        | 2.84E-02   | 5.28E-09         | 2.47E-07      | 2.53E-10          |
| 200         | 1         | Surface      | Uranium     | mg/kg        | 2.73E+01   | 5.07E-06         | 9.13E-05      | 3.27E-09          |
| 212         | 1         | Surface      | Arsenic     | mg/kg        | 1.44E+01   | 2.68E-06         | 2.89E-05      | 1.73E-09          |
| 212         | 1         | Surface      | Beryllium   | mg/kg        | 8.10E-01   | 1.51E-07         | 3.79E-07      | 9.71E-11          |
| 212         | 1         | Surface      | Chromium    | mg/kg        | 3.58E+01   | 6.65E-06         | 1.20E-04      | 4.29E-09          |
| 212         | 1         | Surface      | Iron        | mg/kg        | 4.14E+04   | 7.69E-03         | 1.38E-01      | 4.96E-06          |
| 212         | 1         | Surface      | Nickel      | mg/kg        | 8.69E+01   | 1.62E-05         | 2.33E-04      | 1.04E-08          |
| 212         | 1         | Surface      | PCB, Total  | mg/kg        | 1.80E-01   | 3.35E-08         | 1.69E-06      | 3.66E-08          |
| 212         | 1         | Surface      | Uranium     | mg/kg        | 2.30E+01   | 4.27E-06         | 7.69E-05      | 2.76E-09          |
| 213         | 1         | Surface      | Antimony    | mg/kg        | 8.50E-01   | 1.58E-07         | 2.84E-06      | 1.02E-10          |
| 213         | 1         | Surface      | Chromium    | mg/kg        | 4.78E+01   | 8.88E-06         | 1.60E-04      | 5.73E-09          |
| 213         | 1         | Surface      | Nickel      | mg/kg        | 6.67E+01   | 1.24E-05         | 1.79E-04      | 8.00E-09          |
| 213         | 1         | Surface      | PCB, Total  | mg/kg        | 7.30E-02   | 1.36E-08         | 6.84E-07      | 1.49E-08          |
| 213         | 1         | Surface      | Silver      | mg/kg        | 1.32E+01   | 2.45E-06         | 3.52E-05      | 1.58E-09          |
| 213         | 1         | Surface      | Total PAH   | mg/kg        | 1.72E-01   | 3.19E-08         | 1.49E-06      | 1.53E-09          |
| 213         | 2         | Surface      | Chromium    | mg/kg        | 4.48E+01   | 8.33E-06         | 1.50E-04      | 5.37E-09          |
| 213         | 2         | Surface      | Nickel      | mg/kg        | 9.10E+01   | 1.69E-05         | 2.43E-04      | 1.09E-08          |
| 213         | 2         | Surface      | Silver      | mg/kg        | 1.13E+01   | 2.09E-06         | 3.01E-05      | 1.35E-09          |
| 214         | 1         | Surface      | Antimony    | mg/kg        | 5.70E-01   | 1.06E-07         | 1.91E-06      | 6.83E-11          |
| 215         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 1.26E-07         | 2.27E-06      | 8.15E-11          |
| 215         | 1         | Surface      | Chromium    | mg/kg        | 5.73E+01   | 1.07E-05         | 1.92E-04      | 6.87E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 215         | 1         | Surface      | Iron        | mg/kg        | 3.87E+04   | 7.19E-03         | 1.29E-01      | 4.64E-06          |
| 215         | 1         | Surface      | Nickel      | mg/kg        | 7.32E+01   | 1.36E-05         | 1.96E-04      | 8.77E-09          |
| 215         | 1         | Surface      | Total PAH   | mg/kg        | 8.09E-02   | 1.50E-08         | 7.03E-07      | 7.20E-10          |
| 216         | 1         | Surface      | Chromium    | mg/kg        | 2.38E+01   | 4.42E-06         | 7.96E-05      | 2.85E-09          |
| 216         | 1         | Surface      | Total PAH   | mg/kg        | 1.49E-01   | 2.77E-08         | 1.30E-06      | 1.33E-09          |
| 217         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 1.59E-05         | 2.87E-04      | 1.03E-08          |
| 217         | 1         | Surface      | Cobalt      | mg/kg        | 1.96E+01   | 3.64E-06         | 6.55E-05      | 2.35E-09          |
| 217         | 1         | Surface      | Manganese   | mg/kg        | 7.70E+02   | 1.43E-04         | 2.06E-03      | 9.23E-08          |
| 217         | 1         | Surface      | Nickel      | mg/kg        | 8.54E+01   | 1.59E-05         | 2.29E-04      | 1.02E-08          |
| 217         | 1         | Surface      | Silver      | mg/kg        | 1.35E+01   | 2.50E-06         | 3.60E-05      | 1.61E-09          |
| 217         | 2         | Surface      | Antimony    | mg/kg        | 1.70E+00   | 3.16E-07         | 5.69E-06      | 2.04E-10          |
| 217         | 2         | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 2.07E-06         | 2.24E-05      | 1.34E-09          |
| 217         | 2         | Surface      | Chromium    | mg/kg        | 1.02E+02   | 1.89E-05         | 3.40E-04      | 1.22E-08          |
| 217         | 2         | Surface      | Cobalt      | mg/kg        | 1.74E+01   | 3.23E-06         | 5.82E-05      | 2.09E-09          |
| 217         | 2         | Surface      | Iron        | mg/kg        | 3.09E+04   | 5.75E-03         | 1.03E-01      | 3.71E-06          |
| 217         | 2         | Surface      | Manganese   | mg/kg        | 8.44E+02   | 1.57E-04         | 2.26E-03      | 1.01E-07          |
| 217         | 2         | Surface      | Mercury     | mg/kg        | 8.59E+00   | 1.60E-06         | 2.87E-05      | 3.09E-05          |
| 217         | 2         | Surface      | Nickel      | mg/kg        | 9.74E+01   | 1.81E-05         | 2.61E-04      | 1.17E-08          |
| 217         | 2         | Surface      | Silver      | mg/kg        | 1.61E+01   | 2.99E-06         | 4.31E-05      | 1.93E-09          |
| 217         | 2         | Surface      | Total PAH   | mg/kg        | 5.05E-01   | 9.38E-08         | 4.39E-06      | 4.49E-09          |
| 221         | 1         | Surface      | Barium      | mg/kg        | 2.21E+02   | 4.11E-05         | 7.39E-04      | 2.65E-08          |
| 221         | 1         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 1.30E-05         | 2.35E-04      | 8.41E-09          |
| 221         | 1         | Surface      | Iron        | mg/kg        | 1.90E+04   | 3.53E-03         | 6.35E-02      | 2.28E-06          |
| 221         | 1         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 1.47E-05         | 2.12E-04      | 9.50E-09          |
| 221         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 9.29E-08         | 4.68E-06      | 1.02E-07          |
| 221         | 1         | Surface      | Total PAH   | mg/kg        | 1.02E+00   | 1.90E-07         | 8.89E-06      | 9.10E-09          |
| 221         | 1         | Surface      | Uranium     | mg/kg        | 1.64E+01   | 3.04E-06         | 5.47E-05      | 1.96E-09          |
| 222         | 1         | Surface      | Chromium    | mg/kg        | 4.73E+01   | 8.79E-06         | 1.58E-04      | 5.67E-09          |
| 222         | 1         | Surface      | Nickel      | mg/kg        | 9.19E+01   | 1.71E-05         | 2.46E-04      | 1.10E-08          |
| 222         | 1         | Surface      | PCB, Total  | mg/kg        | 1.40E+00   | 2.60E-07         | 1.31E-05      | 2.85E-07          |
| 222         | 1         | Surface      | Total PAH   | mg/kg        | 1.77E-01   | 3.29E-08         | 1.54E-06      | 1.58E-09          |
| 222         | 1         | Surface      | Uranium     | mg/kg        | 2.80E+01   | 5.20E-06         | 9.36E-05      | 3.35E-09          |
| 227         | 1         | Surface      | Beryllium   | mg/kg        | 5.52E-01   | 1.03E-07         | 2.59E-07      | 6.62E-11          |
| 227         | 1         | Surface      | Chromium    | mg/kg        | 4.71E+01   | 8.76E-06         | 1.58E-04      | 5.65E-09          |
| 227         | 1         | Surface      | Nickel      | mg/kg        | 2.03E+02   | 3.77E-05         | 5.43E-04      | 2.43E-08          |
| 227         | 1         | Surface      | PCB, Total  | mg/kg        | 4.14E+00   | 7.70E-07         | 3.88E-05      | 8.43E-07          |
| 227         | 1         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 6.28E-08         | 2.94E-06      | 3.01E-09          |
| 227         | 1         | Surface      | Uranium     | mg/kg        | 1.02E+02   | 1.89E-05         | 3.40E-04      | 1.22E-08          |
| 227         | 2         | Surface      | Beryllium   | mg/kg        | 5.32E-01   | 9.89E-08         | 2.49E-07      | 6.38E-11          |
| 227         | 2         | Surface      | Chromium    | mg/kg        | 5.63E+01   | 1.05E-05         | 1.88E-04      | 6.75E-09          |
| 227         | 2         | Surface      | Cobalt      | mg/kg        | 8.99E+00   | 1.67E-06         | 3.01E-05      | 1.08E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 227         | 2         | Surface      | Mercury     | mg/kg        | 8.41E+00   | 1.56E-06         | 2.81E-05      | 3.03E-05          |
| 227         | 2         | Surface      | Nickel      | mg/kg        | 1.25E+02   | 2.32E-05         | 3.34E-04      | 1.50E-08          |
| 227         | 2         | Surface      | PCB, Total  | mg/kg        | 5.82E+00   | 1.08E-06         | 5.45E-05      | 1.19E-06          |
| 227         | 2         | Surface      | Total PAH   | mg/kg        | 1.16E-01   | 2.15E-08         | 1.01E-06      | 1.03E-09          |
| 227         | 2         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 2.80E-06         | 5.03E-05      | 1.80E-09          |
| 228         | 1         | Surface      | Antimony    | mg/kg        | 6.30E-01   | 1.17E-07         | 2.11E-06      | 7.55E-11          |
| 228         | 1         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 7.25E-07         | 2.61E-07      | 4.68E-10          |
| 228         | 1         | Surface      | Chromium    | mg/kg        | 1.89E+02   | 3.51E-05         | 6.32E-04      | 2.26E-08          |
| 228         | 1         | Surface      | Mercury     | mg/kg        | 9.37E+00   | 1.74E-06         | 3.13E-05      | 3.37E-05          |
| 228         | 1         | Surface      | Nickel      | mg/kg        | 7.92E+01   | 1.47E-05         | 2.12E-04      | 9.49E-09          |
| 228         | 1         | Surface      | Silver      | mg/kg        | 1.16E+01   | 2.16E-06         | 3.11E-05      | 1.39E-09          |
| 228         | 1         | Surface      | Total PAH   | mg/kg        | 6.69E-02   | 1.24E-08         | 5.82E-07      | 5.95E-10          |
| 228         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 2.81E-06         | 5.06E-05      | 1.81E-09          |
| 76          | 1         | Surface      | Barium      | mg/kg        | 2.69E+02   | 5.00E-05         | 9.00E-04      | 3.23E-08          |
| 76          | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 4.83E-08         | 2.44E-06      | 5.29E-08          |
| 76          | 1         | Surface      | Total PAH   | mg/kg        | 1.76E+00   | 3.27E-07         | 1.53E-05      | 1.56E-08          |
| 165         | 1         | Surface      | Antimony    | mg/kg        | 2.20E+00   | 4.09E-07         | 7.36E-06      | 2.64E-10          |
| 165         | 1         | Surface      | Arsenic     | mg/kg        | 6.35E+01   | 1.18E-05         | 1.27E-04      | 7.61E-09          |
| 165         | 1         | Surface      | Barium      | mg/kg        | 5.84E+02   | 1.09E-04         | 1.95E-03      | 7.01E-08          |
| 165         | 1         | Surface      | Beryllium   | mg/kg        | 6.82E-01   | 1.27E-07         | 3.19E-07      | 8.18E-11          |
| 165         | 1         | Surface      | Chromium    | mg/kg        | 3.74E+01   | 6.95E-06         | 1.25E-04      | 4.48E-09          |
| 165         | 1         | Surface      | Mercury     | mg/kg        | 3.78E-01   | 7.02E-08         | 1.26E-06      | 1.36E-06          |
| 165         | 1         | Surface      | Naphthalene | mg/kg        | 1.61E+00   | 2.99E-07         | 2.69E-05      | 6.48E-06          |
| 165         | 1         | Surface      | Nickel      | mg/kg        | 3.47E+01   | 6.45E-06         | 9.28E-05      | 4.16E-09          |
| 165         | 1         | Surface      | PCB, Total  | mg/kg        | 8.27E+00   | 1.54E-06         | 7.74E-05      | 1.68E-06          |
| 165         | 1         | Surface      | Silver      | mg/kg        | 3.09E+01   | 5.75E-06         | 8.28E-05      | 3.71E-09          |
| 165         | 1         | Surface      | Total PAH   | mg/kg        | 1.87E+00   | 3.47E-07         | 1.62E-05      | 1.66E-08          |
| 165         | 1         | Surface      | Uranium     | mg/kg        | 1.08E+02   | 2.00E-05         | 3.60E-04      | 1.29E-08          |
| 158         | 1         | Surface      | Antimony    | mg/kg        | 5.23E-01   | 9.72E-08         | 1.75E-06      | 6.27E-11          |
| 158         | 1         | Surface      | Arsenic     | mg/kg        | 1.01E+01   | 1.88E-06         | 2.03E-05      | 1.21E-09          |
| 158         | 1         | Surface      | Barium      | mg/kg        | 2.19E+02   | 4.06E-05         | 7.32E-04      | 2.62E-08          |
| 158         | 1         | Surface      | Chromium    | mg/kg        | 6.07E+01   | 1.13E-05         | 2.03E-04      | 7.28E-09          |
| 158         | 1         | Surface      | Cobalt      | mg/kg        | 1.62E+01   | 3.01E-06         | 5.43E-05      | 1.94E-09          |
| 158         | 1         | Surface      | Manganese   | mg/kg        | 9.91E+02   | 1.84E-04         | 2.65E-03      | 1.19E-07          |
| 158         | 1         | Surface      | Mercury     | mg/kg        | 1.05E+01   | 1.94E-06         | 3.50E-05      | 3.76E-05          |
| 158         | 1         | Surface      | Nickel      | mg/kg        | 7.28E+01   | 1.35E-05         | 1.95E-04      | 8.73E-09          |
| 158         | 1         | Surface      | Thallium    | mg/kg        | 3.12E-01   | 5.80E-08         | 1.04E-06      | 3.74E-11          |
| 158         | 1         | Surface      | Total PAH   | mg/kg        | 3.69E-01   | 6.86E-08         | 3.21E-06      | 3.28E-09          |
| 158         | 1         | Surface      | Uranium     | mg/kg        | 2.03E+01   | 3.77E-06         | 6.79E-05      | 2.43E-09          |
| 169         | 1         | Surface      | Aluminum    | mg/kg        | 1.42E+04   | 2.64E-03         | 4.75E-02      | 1.70E-06          |
| 169         | 1         | Surface      | Antimony    | mg/kg        | 1.30E+00   | 2.42E-07         | 4.35E-06      | 1.56E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 169         | 1         | Surface      | Arsenic     | mg/kg        | 2.03E+01   | 3.77E-06         | 4.07E-05      | 2.43E-09          |
| 169         | 1         | Surface      | Beryllium   | mg/kg        | 8.00E-01   | 1.49E-07         | 3.75E-07      | 9.59E-11          |
| 169         | 1         | Surface      | Chromium    | mg/kg        | 2.15E+02   | 3.99E-05         | 7.19E-04      | 2.58E-08          |
| 169         | 1         | Surface      | Copper      | mg/kg        | 3.74E+02   | 6.96E-05         | 1.25E-03      | 4.49E-08          |
| 169         | 1         | Surface      | Iron        | mg/kg        | 4.16E+04   | 7.72E-03         | 1.39E-01      | 4.98E-06          |
| 169         | 1         | Surface      | Mercury     | mg/kg        | 7.87E+00   | 1.46E-06         | 2.63E-05      | 2.83E-05          |
| 169         | 1         | Surface      | Nickel      | mg/kg        | 5.49E+02   | 1.02E-04         | 1.47E-03      | 6.58E-08          |
| 169         | 1         | Surface      | PCB, Total  | mg/kg        | 1.00E+01   | 1.86E-06         | 9.37E-05      | 2.04E-06          |
| 169         | 1         | Surface      | Thallium    | mg/kg        | 4.60E-01   | 8.55E-08         | 1.54E-06      | 5.52E-11          |
| 169         | 1         | Surface      | Total PAH   | mg/kg        | 4.59E+00   | 8.52E-07         | 3.99E-05      | 4.08E-08          |
| 169         | 1         | Surface      | Uranium     | mg/kg        | 5.03E+01   | 9.35E-06         | 1.68E-04      | 6.03E-09          |
| 19          | 1         | Surface      | Beryllium   | mg/kg        | 1.10E+00   | 2.04E-07         | 5.15E-07      | 1.32E-10          |
| 19          | 1         | Surface      | Cadmium     | mg/kg        | 1.20E+00   | 2.23E-07         | 8.03E-08      | 1.44E-10          |
| 19          | 1         | Surface      | Thallium    | mg/kg        | 9.80E-01   | 1.82E-07         | 3.28E-06      | 1.17E-10          |
| 19          | 1         | Surface      | Total PAH   | mg/kg        | 5.23E+00   | 9.71E-07         | 4.55E-05      | 4.65E-08          |
| 138         | 1         | Surface      | Antimony    | mg/kg        | 5.39E+00   | 1.00E-06         | 1.80E-05      | 6.47E-10          |
| 138         | 1         | Surface      | Arsenic     | mg/kg        | 1.06E+01   | 1.97E-06         | 2.13E-05      | 1.27E-09          |
| 138         | 1         | Surface      | Cadmium     | mg/kg        | 5.42E+00   | 1.01E-06         | 3.63E-07      | 6.50E-10          |
| 138         | 1         | Surface      | Chromium    | mg/kg        | 5.39E+01   | 1.00E-05         | 1.80E-04      | 6.46E-09          |
| 138         | 1         | Surface      | Mercury     | mg/kg        | 1.30E+01   | 2.41E-06         | 4.35E-05      | 4.67E-05          |
| 138         | 1         | Surface      | Nickel      | mg/kg        | 7.04E+01   | 1.31E-05         | 1.88E-04      | 8.44E-09          |
| 138         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 9.29E-08         | 4.68E-06      | 1.02E-07          |
| 138         | 1         | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.88E-06         | 2.70E-05      | 1.21E-09          |
| 138         | 1         | Surface      | Total PAH   | mg/kg        | 9.74E-02   | 1.81E-08         | 8.47E-07      | 8.67E-10          |
| 138         | 2         | Surface      | Nickel      | mg/kg        | 7.99E+01   | 1.48E-05         | 2.14E-04      | 9.57E-09          |
| 138         | 2         | Surface      | PCB, Total  | mg/kg        | 9.20E-02   | 1.71E-08         | 8.62E-07      | 1.87E-08          |
| 138         | 2         | Surface      | Silver      | mg/kg        | 1.04E+01   | 1.94E-06         | 2.79E-05      | 1.25E-09          |
| 138         | 2         | Surface      | Total PAH   | mg/kg        | 3.84E-02   | 7.14E-09         | 3.34E-07      | 3.42E-10          |
| 180         | 1         | Surface      | Antimony    | mg/kg        | 5.80E-01   | 1.08E-07         | 1.94E-06      | 6.95E-11          |
| 180         | 1         | Surface      | Arsenic     | mg/kg        | 7.48E+01   | 1.39E-05         | 1.50E-04      | 8.97E-09          |
| 180         | 1         | Surface      | Chromium    | mg/kg        | 5.54E+01   | 1.03E-05         | 1.85E-04      | 6.65E-09          |
| 180         | 1         | Surface      | Mercury     | mg/kg        | 8.28E+00   | 1.54E-06         | 2.77E-05      | 2.98E-05          |
| 180         | 1         | Surface      | Nickel      | mg/kg        | 8.77E+01   | 1.63E-05         | 2.35E-04      | 1.05E-08          |
| 180         | 2         | Surface      | Antimony    | mg/kg        | 4.58E-01   | 8.51E-08         | 1.53E-06      | 5.49E-11          |
| 180         | 2         | Surface      | Arsenic     | mg/kg        | 1.27E+01   | 2.35E-06         | 2.54E-05      | 1.52E-09          |
| 180         | 2         | Surface      | Chromium    | mg/kg        | 4.46E+01   | 8.29E-06         | 1.49E-04      | 5.35E-09          |
| 180         | 2         | Surface      | Nickel      | mg/kg        | 8.42E+01   | 1.56E-05         | 2.25E-04      | 1.01E-08          |
| 180         | 2         | Surface      | Total PAH   | mg/kg        | 9.19E-02   | 1.71E-08         | 7.99E-07      | 8.17E-10          |
| 180         | 3         | Surface      | Arsenic     | mg/kg        | 1.34E+01   | 2.48E-06         | 2.68E-05      | 1.60E-09          |
| 180         | 3         | Surface      | Chromium    | mg/kg        | 4.69E+01   | 8.72E-06         | 1.57E-04      | 5.63E-09          |
| 180         | 3         | Surface      | Nickel      | mg/kg        | 6.77E+01   | 1.26E-05         | 1.81E-04      | 8.12E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 180         | 3         | Surface      | Silver      | mg/kg        | 1.14E+01   | 2.12E-06         | 3.05E-05      | 1.37E-09          |
| 180         | 4         | Surface      | Arsenic     | mg/kg        | 1.15E+01   | 2.14E-06         | 2.31E-05      | 1.38E-09          |
| 180         | 4         | Surface      | Barium      | mg/kg        | 2.13E+02   | 3.96E-05         | 7.12E-04      | 2.55E-08          |
| 180         | 4         | Surface      | Beryllium   | mg/kg        | 1.60E+00   | 2.97E-07         | 7.49E-07      | 1.92E-10          |
| 180         | 4         | Surface      | Chromium    | mg/kg        | 6.00E+01   | 1.12E-05         | 2.01E-04      | 7.19E-09          |
| 180         | 4         | Surface      | Iron        | mg/kg        | 1.54E+04   | 2.86E-03         | 5.14E-02      | 1.84E-06          |
| 180         | 4         | Surface      | Manganese   | mg/kg        | 7.09E+02   | 1.32E-04         | 1.90E-03      | 8.50E-08          |
| 180         | 4         | Surface      | Nickel      | mg/kg        | 6.46E+01   | 1.20E-05         | 1.73E-04      | 7.75E-09          |
| 180         | 4         | Surface      | Silver      | mg/kg        | 9.68E+00   | 1.80E-06         | 2.59E-05      | 1.16E-09          |
| 180         | 4         | Surface      | Total PAH   | mg/kg        | 2.15E-02   | 4.00E-09         | 1.87E-07      | 1.91E-10          |
| 180         | 4         | Surface      | Vanadium    | mg/kg        | 4.85E+01   | 9.01E-06         | 8.44E-05      | 5.81E-09          |
| 181         | 1         | Surface      | Chromium    | mg/kg        | 2.29E+01   | 4.25E-06         | 7.64E-05      | 2.74E-09          |
| 181         | 1         | Surface      | Thallium    | mg/kg        | 3.50E+00   | 6.50E-07         | 1.17E-05      | 4.20E-10          |
| 181         | 1         | Surface      | Total PAH   | mg/kg        | 3.43E-02   | 6.37E-09         | 2.98E-07      | 3.05E-10          |
| 195         | 1         | Surface      | Chromium    | mg/kg        | 6.33E+01   | 1.18E-05         | 2.12E-04      | 7.59E-09          |
| 195         | 1         | Surface      | Nickel      | mg/kg        | 7.02E+01   | 1.30E-05         | 1.88E-04      | 8.42E-09          |
| 195         | 1         | Surface      | Silver      | mg/kg        | 9.37E+00   | 1.74E-06         | 2.51E-05      | 1.12E-09          |
| 195         | 2         | Surface      | Chromium    | mg/kg        | 4.52E+01   | 8.40E-06         | 1.51E-04      | 5.42E-09          |
| 195         | 2         | Surface      | Silver      | mg/kg        | 9.48E+00   | 1.76E-06         | 2.54E-05      | 1.14E-09          |
| 195         | 2         | Surface      | Total PAH   | mg/kg        | 2.68E-02   | 4.98E-09         | 2.33E-07      | 2.39E-10          |
| 195         | 3         | Surface      | Chromium    | mg/kg        | 5.03E+01   | 9.35E-06         | 1.68E-04      | 6.03E-09          |
| 195         | 3         | Surface      | Nickel      | mg/kg        | 5.22E+01   | 9.69E-06         | 1.40E-04      | 6.25E-09          |
| 195         | 3         | Surface      | Total PAH   | mg/kg        | 4.06E-02   | 7.54E-09         | 3.53E-07      | 3.61E-10          |
| 195         | 4         | Surface      | Chromium    | mg/kg        | 5.29E+01   | 9.83E-06         | 1.77E-04      | 6.34E-09          |
| 195         | 4         | Surface      | Nickel      | mg/kg        | 6.23E+01   | 1.16E-05         | 1.67E-04      | 7.47E-09          |
| 195         | 5         | Surface      | Chromium    | mg/kg        | 5.74E+01   | 1.07E-05         | 1.92E-04      | 6.88E-09          |
| 195         | 5         | Surface      | Nickel      | mg/kg        | 8.11E+01   | 1.51E-05         | 2.17E-04      | 9.72E-09          |
| 195         | 5         | Surface      | Total PAH   | mg/kg        | 2.40E-02   | 4.46E-09         | 2.09E-07      | 2.14E-10          |
| 195         | 6         | Surface      | Chromium    | mg/kg        | 4.45E+01   | 8.28E-06         | 1.49E-04      | 5.34E-09          |
| 195         | 6         | Surface      | Nickel      | mg/kg        | 8.71E+01   | 1.62E-05         | 2.33E-04      | 1.04E-08          |
| 195         | 6         | Surface      | Total PAH   | mg/kg        | 2.48E-01   | 4.60E-08         | 2.15E-06      | 2.20E-09          |
| 195         | 7         | Surface      | Chromium    | mg/kg        | 4.93E+01   | 9.15E-06         | 1.65E-04      | 5.91E-09          |
| 195         | 7         | Surface      | Silver      | mg/kg        | 8.06E+00   | 1.50E-06         | 2.16E-05      | 9.66E-10          |
| 195         | 8         | Surface      | Arsenic     | mg/kg        | 1.16E+01   | 2.15E-06         | 2.32E-05      | 1.39E-09          |
| 195         | 8         | Surface      | Beryllium   | mg/kg        | 7.40E-01   | 1.38E-07         | 3.47E-07      | 8.87E-11          |
| 195         | 8         | Surface      | Chromium    | mg/kg        | 6.79E+01   | 1.26E-05         | 2.27E-04      | 8.14E-09          |
| 195         | 8         | Surface      | Cobalt      | mg/kg        | 1.82E+01   | 3.38E-06         | 6.09E-05      | 2.18E-09          |
| 195         | 8         | Surface      | Nickel      | mg/kg        | 7.01E+01   | 1.30E-05         | 1.88E-04      | 8.41E-09          |
| 195         | 8         | Surface      | Total PAH   | mg/kg        | 2.16E-01   | 4.01E-08         | 1.87E-06      | 1.92E-09          |
| 195         | 8         | Surface      | Vanadium    | mg/kg        | 4.04E+01   | 7.51E-06         | 7.03E-05      | 4.84E-09          |
| 195         | 9         | Surface      | Chromium    | mg/kg        | 6.08E+01   | 1.13E-05         | 2.03E-04      | 7.29E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 195         | 9         | Surface      | Nickel      | mg/kg        | 7.93E+01   | 1.47E-05         | 2.12E-04      | 9.50E-09          |
| 195         | 10        | Surface      | Chromium    | mg/kg        | 4.51E+01   | 8.38E-06         | 1.51E-04      | 5.40E-09          |
| 195         | 10        | Surface      | Nickel      | mg/kg        | 7.40E+01   | 1.38E-05         | 1.98E-04      | 8.87E-09          |
| 195         | 10        | Surface      | Silver      | mg/kg        | 1.31E+01   | 2.44E-06         | 3.51E-05      | 1.57E-09          |
| 195         | 11        | Surface      | Aluminum    | mg/kg        | 2.81E+04   | 5.22E-03         | 9.40E-02      | 3.37E-06          |
| 195         | 11        | Surface      | Arsenic     | mg/kg        | 1.35E+01   | 2.50E-06         | 2.70E-05      | 1.61E-09          |
| 195         | 11        | Surface      | Barium      | mg/kg        | 4.53E+02   | 8.42E-05         | 1.52E-03      | 5.43E-08          |
| 195         | 11        | Surface      | Chromium    | mg/kg        | 5.05E+01   | 9.38E-06         | 1.69E-04      | 6.05E-09          |
| 195         | 11        | Surface      | Cobalt      | mg/kg        | 2.77E+01   | 5.15E-06         | 9.27E-05      | 3.32E-09          |
| 195         | 11        | Surface      | Iron        | mg/kg        | 1.97E+04   | 3.66E-03         | 6.59E-02      | 2.36E-06          |
| 195         | 11        | Surface      | Nickel      | mg/kg        | 6.77E+01   | 1.26E-05         | 1.81E-04      | 8.12E-09          |
| 195         | 11        | Surface      | Thallium    | mg/kg        | 6.60E-01   | 1.23E-07         | 2.21E-06      | 7.91E-11          |
| 195         | 11        | Surface      | Vanadium    | mg/kg        | 7.97E+01   | 1.48E-05         | 1.39E-04      | 9.56E-09          |
| 195         | 12        | Surface      | Beryllium   | mg/kg        | 7.50E-01   | 1.39E-07         | 3.51E-07      | 8.99E-11          |
| 195         | 12        | Surface      | Chromium    | mg/kg        | 7.04E+01   | 1.31E-05         | 2.35E-04      | 8.44E-09          |
| 195         | 12        | Surface      | Nickel      | mg/kg        | 6.78E+01   | 1.26E-05         | 1.81E-04      | 8.12E-09          |
| 195         | 13        | Surface      | Chromium    | mg/kg        | 6.55E+01   | 1.22E-05         | 2.19E-04      | 7.85E-09          |
| 195         | 13        | Surface      | Nickel      | mg/kg        | 6.91E+01   | 1.28E-05         | 1.85E-04      | 8.28E-09          |
| 195         | 14        | Surface      | Chromium    | mg/kg        | 5.94E+01   | 1.10E-05         | 1.99E-04      | 7.13E-09          |
| 195         | 14        | Surface      | Nickel      | mg/kg        | 7.04E+01   | 1.31E-05         | 1.88E-04      | 8.44E-09          |
| 195         | 15        | Surface      | Chromium    | mg/kg        | 4.82E+01   | 8.95E-06         | 1.61E-04      | 5.78E-09          |
| 195         | 16        | Surface      | Chromium    | mg/kg        | 4.45E+01   | 8.26E-06         | 1.49E-04      | 5.33E-09          |
| 195         | 16        | Surface      | Nickel      | mg/kg        | 8.16E+01   | 1.52E-05         | 2.18E-04      | 9.78E-09          |
| 195         | 17        | Surface      | Chromium    | mg/kg        | 8.22E+01   | 1.53E-05         | 2.75E-04      | 9.85E-09          |
| 195         | 17        | Surface      | Mercury     | mg/kg        | 4.17E-01   | 7.75E-08         | 1.39E-06      | 1.50E-06          |
| 195         | 17        | Surface      | Nickel      | mg/kg        | 5.93E+01   | 1.10E-05         | 1.59E-04      | 7.11E-09          |
| 195         | 17        | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 1.38E-07         | 6.93E-06      | 1.51E-07          |
| 195         | 17        | Surface      | Silver      | mg/kg        | 1.01E+01   | 1.88E-06         | 2.71E-05      | 1.22E-09          |
| 195         | 17        | Surface      | Thallium    | mg/kg        | 5.40E-01   | 1.00E-07         | 1.81E-06      | 6.47E-11          |
| 195         | 17        | Surface      | Total PAH   | mg/kg        | 3.16E-01   | 5.87E-08         | 2.75E-06      | 2.81E-09          |
| 492         | 1         | Surface      | Arsenic     | mg/kg        | 1.47E+01   | 2.73E-06         | 2.95E-05      | 1.76E-09          |
| 492         | 1         | Surface      | Beryllium   | mg/kg        | 1.04E+01   | 1.93E-06         | 4.87E-06      | 1.25E-09          |
| 492         | 1         | Surface      | Cadmium     | mg/kg        | 3.14E+00   | 5.84E-07         | 2.10E-07      | 3.76E-10          |
| 492         | 1         | Surface      | Chromium    | mg/kg        | 1.04E+03   | 1.93E-04         | 3.48E-03      | 1.25E-07          |
| 492         | 1         | Surface      | PCB, Total  | mg/kg        | 4.41E+01   | 8.20E-06         | 4.13E-04      | 8.98E-06          |
| 492         | 1         | Surface      | Uranium     | mg/kg        | 1.77E+03   | 3.29E-04         | 5.92E-03      | 2.12E-07          |
| 492         | 1         | Surface      | Vanadium    | mg/kg        | 4.32E+01   | 8.03E-06         | 7.51E-05      | 5.18E-09          |
| 493         | 1         | Surface      | Aluminum    | mg/kg        | 1.44E+04   | 2.68E-03         | 4.82E-02      | 1.73E-06          |
| 493         | 1         | Surface      | Barium      | mg/kg        | 4.04E+02   | 7.51E-05         | 1.35E-03      | 4.84E-08          |
| 493         | 1         | Surface      | Beryllium   | mg/kg        | 9.91E-01   | 1.84E-07         | 4.64E-07      | 1.19E-10          |
| 493         | 1         | Surface      | Chromium    | mg/kg        | 6.61E+01   | 1.23E-05         | 2.21E-04      | 7.92E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 493         | 1         | Surface      | Cobalt      | mg/kg        | 3.79E+01   | 7.04E-06         | 1.27E-04      | 4.54E-09          |
| 493         | 1         | Surface      | Manganese   | mg/kg        | 3.55E+03   | 6.60E-04         | 9.50E-03      | 4.26E-07          |
| 493         | 1         | Surface      | Mercury     | mg/kg        | 2.60E-01   | 4.83E-08         | 8.70E-07      | 9.35E-07          |
| 493         | 1         | Surface      | Nickel      | mg/kg        | 2.13E+02   | 3.96E-05         | 5.70E-04      | 2.55E-08          |
| 493         | 1         | Surface      | PCB, Total  | mg/kg        | 2.60E-01   | 4.83E-08         | 2.44E-06      | 5.29E-08          |
| 493         | 1         | Surface      | Total PAH   | mg/kg        | 5.00E-01   | 9.29E-08         | 4.35E-06      | 4.45E-09          |
| 493         | 1         | Surface      | Vanadium    | mg/kg        | 4.05E+01   | 7.53E-06         | 7.04E-05      | 4.86E-09          |
| 517         | 1         | Surface      | Beryllium   | mg/kg        | 7.39E-01   | 1.37E-07         | 3.46E-07      | 8.86E-11          |
| 517         | 1         | Surface      | Chromium    | mg/kg        | 4.91E+01   | 9.12E-06         | 1.64E-04      | 5.89E-09          |
| 517         | 1         | Surface      | Nickel      | mg/kg        | 1.72E+02   | 3.20E-05         | 4.60E-04      | 2.06E-08          |
| 517         | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 9.29E-08         | 4.68E-06      | 1.02E-07          |
| 541         | 1         | Surface      | Aluminum    | mg/kg        | 1.43E+04   | 2.66E-03         | 4.78E-02      | 1.71E-06          |
| 541         | 1         | Surface      | Barium      | mg/kg        | 1.28E+02   | 2.38E-05         | 4.28E-04      | 1.53E-08          |
| 541         | 1         | Surface      | Beryllium   | mg/kg        | 6.98E-01   | 1.30E-07         | 3.27E-07      | 8.37E-11          |
| 541         | 1         | Surface      | Cadmium     | mg/kg        | 1.68E+00   | 3.13E-07         | 1.13E-07      | 2.02E-10          |
| 541         | 1         | Surface      | Chromium    | mg/kg        | 8.24E+02   | 1.53E-04         | 2.76E-03      | 9.88E-08          |
| 541         | 1         | Surface      | Iron        | mg/kg        | 1.60E+04   | 2.97E-03         | 5.34E-02      | 1.91E-06          |
| 541         | 1         | Surface      | Mercury     | mg/kg        | 9.81E-02   | 1.82E-08         | 3.28E-07      | 3.53E-07          |
| 541         | 1         | Surface      | Naphthalene | mg/kg        | 6.55E-01   | 1.22E-07         | 1.10E-05      | 2.64E-06          |
| 541         | 1         | Surface      | Nickel      | mg/kg        | 1.52E+01   | 2.83E-06         | 4.08E-05      | 1.83E-09          |
| 541         | 1         | Surface      | PCB, Total  | mg/kg        | 6.06E+01   | 1.13E-05         | 5.68E-04      | 1.23E-05          |
| 541         | 1         | Surface      | Total PAH   | mg/kg        | 2.33E+00   | 4.33E-07         | 2.03E-05      | 2.07E-08          |
| 541         | 1         | Surface      | Uranium     | mg/kg        | 6.38E+03   | 1.19E-03         | 2.14E-02      | 7.65E-07          |
| 541         | 1         | Surface      | Vanadium    | mg/kg        | 3.04E+01   | 5.66E-06         | 5.29E-05      | 3.65E-09          |
| 561         | 1         | Surface      | Antimony    | mg/kg        | 9.36E-01   | 1.74E-07         | 3.13E-06      | 1.12E-10          |
| 561         | 1         | Surface      | Arsenic     | mg/kg        | 1.66E+01   | 3.08E-06         | 3.32E-05      | 1.98E-09          |
| 561         | 1         | Surface      | Barium      | mg/kg        | 1.40E+02   | 2.61E-05         | 4.69E-04      | 1.68E-08          |
| 561         | 1         | Surface      | Beryllium   | mg/kg        | 6.85E-01   | 1.27E-07         | 3.21E-07      | 8.21E-11          |
| 561         | 1         | Surface      | Chromium    | mg/kg        | 8.58E+01   | 1.59E-05         | 2.87E-04      | 1.03E-08          |
| 561         | 1         | Surface      | Cobalt      | mg/kg        | 1.07E+01   | 1.99E-06         | 3.58E-05      | 1.28E-09          |
| 561         | 1         | Surface      | Iron        | mg/kg        | 2.05E+04   | 3.80E-03         | 6.85E-02      | 2.45E-06          |
| 561         | 1         | Surface      | Manganese   | mg/kg        | 1.61E+03   | 2.99E-04         | 4.31E-03      | 1.93E-07          |
| 561         | 1         | Surface      | PCB, Total  | mg/kg        | 1.04E+00   | 1.94E-07         | 9.76E-06      | 2.12E-07          |
| 561         | 1         | Surface      | Thallium    | mg/kg        | 3.33E-01   | 6.19E-08         | 1.11E-06      | 3.99E-11          |
| 561         | 1         | Surface      | Total PAH   | mg/kg        | 3.94E-01   | 7.32E-08         | 3.43E-06      | 3.51E-09          |
| 561         | 1         | Surface      | Uranium     | mg/kg        | 2.65E+02   | 4.92E-05         | 8.86E-04      | 3.17E-08          |
| 561         | 1         | Surface      | Vanadium    | mg/kg        | 3.76E+01   | 6.99E-06         | 6.55E-05      | 4.51E-09          |
| 561         | 2         | Surface      | Antimony    | mg/kg        | 5.33E+00   | 9.91E-07         | 1.78E-05      | 6.40E-10          |
| 561         | 2         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 2.42E-06         | 2.61E-05      | 1.56E-09          |
| 561         | 2         | Surface      | Beryllium   | mg/kg        | 6.34E-01   | 1.18E-07         | 2.97E-07      | 7.60E-11          |
| 561         | 2         | Surface      | Cadmium     | mg/kg        | 4.13E-01   | 7.67E-08         | 2.76E-08      | 4.95E-11          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 561         | 2         | Surface      | Chromium    | mg/kg        | 2.88E+02   | 5.36E-05         | 9.64E-04      | 3.46E-08          |
| 561         | 2         | Surface      | Cobalt      | mg/kg        | 1.14E+01   | 2.12E-06         | 3.81E-05      | 1.37E-09          |
| 561         | 2         | Surface      | Manganese   | mg/kg        | 1.12E+03   | 2.07E-04         | 2.98E-03      | 1.34E-07          |
| 561         | 2         | Surface      | PCB, Total  | mg/kg        | 1.64E+01   | 3.05E-06         | 1.54E-04      | 3.34E-06          |
| 561         | 2         | Surface      | Thallium    | mg/kg        | 4.09E-01   | 7.60E-08         | 1.37E-06      | 4.90E-11          |
| 561         | 2         | Surface      | Total PAH   | mg/kg        | 2.43E+00   | 4.52E-07         | 2.11E-05      | 2.16E-08          |
| 561         | 2         | Surface      | Uranium     | mg/kg        | 1.38E+03   | 2.57E-04         | 4.63E-03      | 1.66E-07          |
| 561         | 2         | Surface      | Vanadium    | mg/kg        | 3.46E+01   | 6.42E-06         | 6.01E-05      | 4.14E-09          |
| 562         | 1         | Surface      | Uranium     | mg/kg        | 8.73E+01   | 1.62E-05         | 2.92E-04      | 1.05E-08          |
| 562         | 2         | Surface      | PCB, Total  | mg/kg        | 1.58E+00   | 2.94E-07         | 1.48E-05      | 3.22E-07          |
| 562         | 3         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 7.09E-06         | 1.28E-04      | 4.58E-09          |
| 562         | 3         | Surface      | PCB, Total  | mg/kg        | 2.40E-01   | 4.46E-08         | 2.25E-06      | 4.89E-08          |
| 562         | 3         | Surface      | Total PAH   | mg/kg        | 2.20E-01   | 4.09E-08         | 1.91E-06      | 1.96E-09          |
| 562         | 3         | Surface      | Uranium     | mg/kg        | 5.89E+01   | 1.09E-05         | 1.97E-04      | 7.06E-09          |
| 562         | 4         | Surface      | Chromium    | mg/kg        | 4.67E+01   | 8.67E-06         | 1.56E-04      | 5.59E-09          |
| 562         | 4         | Surface      | Uranium     | mg/kg        | 2.10E+01   | 3.90E-06         | 7.02E-05      | 2.52E-09          |
| 562         | 5         | Surface      | Chromium    | mg/kg        | 1.53E+02   | 2.85E-05         | 5.12E-04      | 1.84E-08          |
| 562         | 5         | Surface      | PCB, Total  | mg/kg        | 9.50E-01   | 1.77E-07         | 8.90E-06      | 1.93E-07          |
| 562         | 5         | Surface      | Total PAH   | mg/kg        | 7.05E-02   | 1.31E-08         | 6.13E-07      | 6.27E-10          |
| 562         | 5         | Surface      | Uranium     | mg/kg        | 2.08E+02   | 3.87E-05         | 6.96E-04      | 2.49E-08          |
| 563         | 1         | Surface      | Cadmium     | mg/kg        | 8.96E-01   | 1.67E-07         | 5.99E-08      | 1.07E-10          |
| 563         | 1         | Surface      | Chromium    | mg/kg        | 2.85E+02   | 5.30E-05         | 9.53E-04      | 3.42E-08          |
| 563         | 1         | Surface      | PCB, Total  | mg/kg        | 7.40E-01   | 1.38E-07         | 6.93E-06      | 1.51E-07          |
| 563         | 1         | Surface      | Uranium     | mg/kg        | 1.51E+01   | 2.80E-06         | 5.05E-05      | 1.81E-09          |
| 564         | 1         | Surface      | Arsenic     | mg/kg        | 4.30E+01   | 7.99E-06         | 8.63E-05      | 5.16E-09          |
| 564         | 1         | Surface      | Beryllium   | mg/kg        | 2.12E+00   | 3.94E-07         | 9.93E-07      | 2.54E-10          |
| 564         | 1         | Surface      | Cadmium     | mg/kg        | 1.96E+00   | 3.64E-07         | 1.31E-07      | 2.35E-10          |
| 564         | 1         | Surface      | Chromium    | mg/kg        | 7.49E+01   | 1.39E-05         | 2.51E-04      | 8.98E-09          |
| 564         | 1         | Surface      | Iron        | mg/kg        | 3.66E+04   | 6.80E-03         | 1.22E-01      | 4.39E-06          |
| 564         | 1         | Surface      | Mercury     | mg/kg        | 2.30E-01   | 4.27E-08         | 7.69E-07      | 8.27E-07          |
| 564         | 1         | Surface      | Nickel      | mg/kg        | 2.24E+01   | 4.16E-06         | 5.99E-05      | 2.69E-09          |
| 564         | 1         | Surface      | PCB, Total  | mg/kg        | 1.93E+00   | 3.59E-07         | 1.81E-05      | 3.93E-07          |
| 564         | 1         | Surface      | Thallium    | mg/kg        | 2.36E+00   | 4.39E-07         | 7.89E-06      | 2.83E-10          |
| 564         | 1         | Surface      | Uranium     | mg/kg        | 5.83E+01   | 1.08E-05         | 1.95E-04      | 6.99E-09          |
| 564         | 1         | Surface      | Vanadium    | mg/kg        | 8.06E+01   | 1.50E-05         | 1.40E-04      | 9.66E-09          |
| 567         | 3         | Surface      | Chromium    | mg/kg        | 3.79E+01   | 7.04E-06         | 1.27E-04      | 4.54E-09          |
| 567         | 4         | Surface      | Aluminum    | mg/kg        | 1.25E+04   | 2.33E-03         | 4.19E-02      | 1.50E-06          |
| 567         | 4         | Surface      | Chromium    | mg/kg        | 1.63E+01   | 3.03E-06         | 5.45E-05      | 1.95E-09          |
| 14          | 1         | Surface      | Arsenic     | mg/kg        | 1.10E+01   | 2.04E-06         | 2.20E-05      | 1.32E-09          |
| 14          | 1         | Surface      | Chromium    | mg/kg        | 6.36E+01   | 1.18E-05         | 2.13E-04      | 7.62E-09          |
| 14          | 1         | Surface      | Iron        | mg/kg        | 1.89E+04   | 3.51E-03         | 6.31E-02      | 2.26E-06          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration



**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 1         | Surface      | Nickel      | mg/kg        | 1.40E+02   | 2.60E-05         | 3.74E-04      | 1.67E-08          |
| 14          | 1         | Surface      | PCB, Total  | mg/kg        | 5.00E-01   | 9.29E-08         | 4.68E-06      | 1.02E-07          |
| 14          | 1         | Surface      | Silver      | mg/kg        | 1.67E+01   | 3.10E-06         | 4.47E-05      | 2.00E-09          |
| 14          | 1         | Surface      | Uranium     | mg/kg        | 7.21E+01   | 1.34E-05         | 2.41E-04      | 8.65E-09          |
| 14          | 2         | Surface      | Antimony    | mg/kg        | 3.70E+00   | 6.88E-07         | 1.24E-05      | 4.44E-10          |
| 14          | 2         | Surface      | Arsenic     | mg/kg        | 1.45E+01   | 2.70E-06         | 2.92E-05      | 1.74E-09          |
| 14          | 2         | Surface      | Beryllium   | mg/kg        | 7.10E-01   | 1.32E-07         | 3.32E-07      | 8.51E-11          |
| 14          | 2         | Surface      | Chromium    | mg/kg        | 6.65E+01   | 1.24E-05         | 2.23E-04      | 7.98E-09          |
| 14          | 2         | Surface      | Copper      | mg/kg        | 1.76E+02   | 3.28E-05         | 5.90E-04      | 2.11E-08          |
| 14          | 2         | Surface      | Iron        | mg/kg        | 3.72E+04   | 6.91E-03         | 1.24E-01      | 4.46E-06          |
| 14          | 2         | Surface      | Manganese   | mg/kg        | 1.44E+03   | 2.68E-04         | 3.86E-03      | 1.73E-07          |
| 14          | 2         | Surface      | Mercury     | mg/kg        | 2.67E-01   | 4.96E-08         | 8.93E-07      | 9.60E-07          |
| 14          | 2         | Surface      | Nickel      | mg/kg        | 6.78E+02   | 1.26E-04         | 1.81E-03      | 8.13E-08          |
| 14          | 2         | Surface      | PCB, Total  | mg/kg        | 3.90E-01   | 7.25E-08         | 3.65E-06      | 7.94E-08          |
| 14          | 2         | Surface      | Total PAH   | mg/kg        | 3.38E-01   | 6.28E-08         | 2.94E-06      | 3.01E-09          |
| 14          | 2         | Surface      | Uranium     | mg/kg        | 2.93E+02   | 5.45E-05         | 9.81E-04      | 3.52E-08          |
| 14          | 3         | Surface      | Arsenic     | mg/kg        | 1.30E+01   | 2.41E-06         | 2.60E-05      | 1.56E-09          |
| 14          | 3         | Surface      | Chromium    | mg/kg        | 7.01E+01   | 1.30E-05         | 2.35E-04      | 8.41E-09          |
| 14          | 3         | Surface      | Copper      | mg/kg        | 1.29E+02   | 2.40E-05         | 4.33E-04      | 1.55E-08          |
| 14          | 3         | Surface      | Iron        | mg/kg        | 3.48E+04   | 6.47E-03         | 1.16E-01      | 4.18E-06          |
| 14          | 3         | Surface      | Manganese   | mg/kg        | 1.06E+03   | 1.96E-04         | 2.83E-03      | 1.27E-07          |
| 14          | 3         | Surface      | Mercury     | mg/kg        | 7.48E+00   | 1.39E-06         | 2.50E-05      | 2.69E-05          |
| 14          | 3         | Surface      | Molybdenum  | mg/kg        | 2.21E+01   | 4.10E-06         | 7.38E-05      | 2.65E-09          |
| 14          | 3         | Surface      | Nickel      | mg/kg        | 5.76E+02   | 1.07E-04         | 1.54E-03      | 6.91E-08          |
| 14          | 3         | Surface      | PCB, Total  | mg/kg        | 8.65E+00   | 1.61E-06         | 8.10E-05      | 1.76E-06          |
| 14          | 3         | Surface      | Uranium     | mg/kg        | 2.18E+02   | 4.05E-05         | 7.28E-04      | 2.61E-08          |
| 14          | 4         | Surface      | Antimony    | mg/kg        | 4.30E+00   | 7.99E-07         | 1.44E-05      | 5.16E-10          |
| 14          | 4         | Surface      | Arsenic     | mg/kg        | 1.33E+01   | 2.47E-06         | 2.67E-05      | 1.59E-09          |
| 14          | 4         | Surface      | Chromium    | mg/kg        | 7.20E+01   | 1.34E-05         | 2.41E-04      | 8.64E-09          |
| 14          | 4         | Surface      | Copper      | mg/kg        | 3.54E+02   | 6.57E-05         | 1.18E-03      | 4.24E-08          |
| 14          | 4         | Surface      | Iron        | mg/kg        | 3.88E+04   | 7.22E-03         | 1.30E-01      | 4.66E-06          |
| 14          | 4         | Surface      | Mercury     | mg/kg        | 4.87E-01   | 9.05E-08         | 1.63E-06      | 1.75E-06          |
| 14          | 4         | Surface      | Nickel      | mg/kg        | 7.31E+02   | 1.36E-04         | 1.95E-03      | 8.76E-08          |
| 14          | 4         | Surface      | PCB, Total  | mg/kg        | 6.61E+00   | 1.23E-06         | 6.19E-05      | 1.35E-06          |
| 14          | 4         | Surface      | Silver      | mg/kg        | 1.17E+01   | 2.17E-06         | 3.13E-05      | 1.40E-09          |
| 14          | 4         | Surface      | Total PAH   | mg/kg        | 2.51E-01   | 4.66E-08         | 2.18E-06      | 2.23E-09          |
| 14          | 4         | Surface      | Uranium     | mg/kg        | 3.72E+02   | 6.91E-05         | 1.24E-03      | 4.46E-08          |
| 14          | 5         | Surface      | Antimony    | mg/kg        | 2.30E+00   | 4.27E-07         | 7.69E-06      | 2.76E-10          |
| 14          | 5         | Surface      | Arsenic     | mg/kg        | 1.31E+01   | 2.43E-06         | 2.63E-05      | 1.57E-09          |
| 14          | 5         | Surface      | Cadmium     | mg/kg        | 3.90E+00   | 7.25E-07         | 2.61E-07      | 4.68E-10          |
| 14          | 5         | Surface      | Chromium    | mg/kg        | 4.70E+01   | 8.73E-06         | 1.57E-04      | 5.63E-09          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 5         | Surface      | Cobalt      | mg/kg        | 1.40E+01   | 2.60E-06         | 4.68E-05      | 1.68E-09          |
| 14          | 5         | Surface      | Copper      | mg/kg        | 1.34E+02   | 2.48E-05         | 4.47E-04      | 1.60E-08          |
| 14          | 5         | Surface      | Iron        | mg/kg        | 3.92E+04   | 7.28E-03         | 1.31E-01      | 4.70E-06          |
| 14          | 5         | Surface      | Manganese   | mg/kg        | 8.28E+02   | 1.54E-04         | 2.21E-03      | 9.92E-08          |
| 14          | 5         | Surface      | Mercury     | mg/kg        | 1.09E+01   | 2.03E-06         | 3.66E-05      | 3.94E-05          |
| 14          | 5         | Surface      | Nickel      | mg/kg        | 4.61E+02   | 8.57E-05         | 1.23E-03      | 5.53E-08          |
| 14          | 5         | Surface      | PCB, Total  | mg/kg        | 1.00E+00   | 1.86E-07         | 9.37E-06      | 2.04E-07          |
| 14          | 5         | Surface      | Silver      | mg/kg        | 1.29E+01   | 2.39E-06         | 3.44E-05      | 1.54E-09          |
| 14          | 5         | Surface      | Thallium    | mg/kg        | 4.10E-01   | 7.62E-08         | 1.37E-06      | 4.92E-11          |
| 14          | 5         | Surface      | Total PAH   | mg/kg        | 1.21E-01   | 2.25E-08         | 1.05E-06      | 1.08E-09          |
| 14          | 5         | Surface      | Uranium     | mg/kg        | 2.62E+02   | 4.87E-05         | 8.77E-04      | 3.14E-08          |
| 14          | 6         | Surface      | Antimony    | mg/kg        | 2.70E+00   | 5.02E-07         | 9.03E-06      | 3.24E-10          |
| 14          | 6         | Surface      | Cadmium     | mg/kg        | 8.40E-01   | 1.56E-07         | 5.62E-08      | 1.01E-10          |
| 14          | 6         | Surface      | Chromium    | mg/kg        | 4.46E+02   | 8.29E-05         | 1.49E-03      | 5.35E-08          |
| 14          | 6         | Surface      | Copper      | mg/kg        | 1.22E+02   | 2.27E-05         | 4.09E-04      | 1.47E-08          |
| 14          | 6         | Surface      | Mercury     | mg/kg        | 3.47E-01   | 6.45E-08         | 1.16E-06      | 1.25E-06          |
| 14          | 6         | Surface      | Nickel      | mg/kg        | 9.63E+02   | 1.79E-04         | 2.58E-03      | 1.15E-07          |
| 14          | 6         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 9.29E-07         | 4.68E-05      | 1.02E-06          |
| 14          | 6         | Surface      | Silver      | mg/kg        | 1.19E+01   | 2.21E-06         | 3.18E-05      | 1.42E-09          |
| 14          | 6         | Surface      | Uranium     | mg/kg        | 5.79E+02   | 1.08E-04         | 1.94E-03      | 6.94E-08          |
| 14          | 7         | Surface      | Antimony    | mg/kg        | 7.50E-01   | 1.39E-07         | 2.51E-06      | 8.99E-11          |
| 14          | 7         | Surface      | Arsenic     | mg/kg        | 1.13E+01   | 2.10E-06         | 2.27E-05      | 1.35E-09          |
| 14          | 7         | Surface      | Cadmium     | mg/kg        | 2.70E+00   | 5.02E-07         | 1.81E-07      | 3.24E-10          |
| 14          | 7         | Surface      | Chromium    | mg/kg        | 6.46E+01   | 1.20E-05         | 2.16E-04      | 7.74E-09          |
| 14          | 7         | Surface      | Mercury     | mg/kg        | 7.82E+00   | 1.45E-06         | 2.62E-05      | 2.81E-05          |
| 14          | 7         | Surface      | Nickel      | mg/kg        | 1.22E+03   | 2.27E-04         | 3.27E-03      | 1.47E-07          |
| 14          | 7         | Surface      | PCB, Total  | mg/kg        | 7.60E+00   | 1.41E-06         | 7.12E-05      | 1.55E-06          |
| 14          | 7         | Surface      | Total PAH   | mg/kg        | 6.31E-02   | 1.17E-08         | 5.49E-07      | 5.62E-10          |
| 14          | 7         | Surface      | Uranium     | mg/kg        | 3.33E+02   | 6.19E-05         | 1.11E-03      | 3.99E-08          |
| 14          | 8         | Surface      | Antimony    | mg/kg        | 6.10E-01   | 1.13E-07         | 2.04E-06      | 7.31E-11          |
| 14          | 8         | Surface      | Arsenic     | mg/kg        | 1.14E+01   | 2.11E-06         | 2.28E-05      | 1.36E-09          |
| 14          | 8         | Surface      | Chromium    | mg/kg        | 4.60E+01   | 8.55E-06         | 1.54E-04      | 5.52E-09          |
| 14          | 8         | Surface      | Mercury     | mg/kg        | 7.90E+00   | 1.47E-06         | 2.64E-05      | 2.84E-05          |
| 14          | 8         | Surface      | Nickel      | mg/kg        | 6.73E+02   | 1.25E-04         | 1.80E-03      | 8.06E-08          |
| 14          | 8         | Surface      | PCB, Total  | mg/kg        | 5.00E+00   | 9.29E-07         | 4.68E-05      | 1.02E-06          |
| 14          | 8         | Surface      | Silver      | mg/kg        | 9.63E+00   | 1.79E-06         | 2.58E-05      | 1.15E-09          |
| 14          | 8         | Surface      | Total PAH   | mg/kg        | 6.28E-02   | 1.17E-08         | 5.46E-07      | 5.59E-10          |
| 14          | 8         | Surface      | Uranium     | mg/kg        | 3.35E+02   | 6.23E-05         | 1.12E-03      | 4.02E-08          |
| 14          | 9         | Surface      | Antimony    | mg/kg        | 2.00E+00   | 3.72E-07         | 6.69E-06      | 2.40E-10          |
| 14          | 9         | Surface      | Arsenic     | mg/kg        | 1.40E+01   | 2.61E-06         | 2.82E-05      | 1.68E-09          |
| 14          | 9         | Surface      | Cadmium     | mg/kg        | 9.40E-01   | 1.75E-07         | 6.29E-08      | 1.13E-10          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 14          | 9         | Surface      | Chromium    | mg/kg        | 4.64E+01   | 8.63E-06         | 1.55E-04      | 5.57E-09          |
| 14          | 9         | Surface      | Mercury     | mg/kg        | 1.13E+00   | 2.10E-07         | 3.78E-06      | 4.06E-06          |
| 14          | 9         | Surface      | Nickel      | mg/kg        | 9.43E+02   | 1.75E-04         | 2.52E-03      | 1.13E-07          |
| 14          | 9         | Surface      | PCB, Total  | mg/kg        | 6.84E+00   | 1.27E-06         | 6.41E-05      | 1.39E-06          |
| 14          | 9         | Surface      | Total PAH   | mg/kg        | 4.87E-01   | 9.06E-08         | 4.24E-06      | 4.34E-09          |
| 14          | 9         | Surface      | Uranium     | mg/kg        | 1.46E+03   | 2.72E-04         | 4.90E-03      | 1.76E-07          |
| 14          | 10        | Surface      | Antimony    | mg/kg        | 9.40E-01   | 1.75E-07         | 3.14E-06      | 1.13E-10          |
| 14          | 10        | Surface      | Arsenic     | mg/kg        | 1.12E+01   | 2.09E-06         | 2.26E-05      | 1.35E-09          |
| 14          | 10        | Surface      | Chromium    | mg/kg        | 4.19E+01   | 7.78E-06         | 1.40E-04      | 5.02E-09          |
| 14          | 10        | Surface      | Copper      | mg/kg        | 1.41E+02   | 2.62E-05         | 4.72E-04      | 1.69E-08          |
| 14          | 10        | Surface      | Iron        | mg/kg        | 2.75E+04   | 5.10E-03         | 9.18E-02      | 3.29E-06          |
| 14          | 10        | Surface      | Mercury     | mg/kg        | 2.51E+01   | 4.66E-06         | 8.39E-05      | 9.02E-05          |
| 14          | 10        | Surface      | Nickel      | mg/kg        | 6.00E+02   | 1.12E-04         | 1.61E-03      | 7.20E-08          |
| 14          | 10        | Surface      | PCB, Total  | mg/kg        | 9.38E+00   | 1.74E-06         | 8.79E-05      | 1.91E-06          |
| 14          | 10        | Surface      | Total PAH   | mg/kg        | 2.72E-01   | 5.05E-08         | 2.36E-06      | 2.42E-09          |
| 14          | 10        | Surface      | Uranium     | mg/kg        | 2.88E+02   | 5.36E-05         | 9.65E-04      | 3.46E-08          |
| 518         | 1         | Surface      | Carbazole   | mg/kg        | 1.17E+01   | 2.18E-06         | 7.84E-05      | 6.55E-07          |
| 518         | 1         | Surface      | Cobalt      | mg/kg        | 6.80E+00   | 1.26E-06         | 2.28E-05      | 8.16E-10          |
| 518         | 1         | Surface      | Nickel      | mg/kg        | 1.29E+01   | 2.39E-06         | 3.44E-05      | 1.54E-09          |
| 518         | 1         | Surface      | PCB, Total  | mg/kg        | 6.30E-01   | 1.17E-07         | 5.90E-06      | 1.28E-07          |
| 518         | 1         | Surface      | Pyrene      | mg/kg        | 3.94E+01   | 7.33E-06         | 3.43E-04      | 3.12E-06          |
| 518         | 1         | Surface      | Total PAH   | mg/kg        | 3.90E+01   | 7.24E-06         | 3.39E-04      | 3.47E-07          |
| 518         | 1         | Surface      | Uranium     | mg/kg        | 2.17E+02   | 4.03E-05         | 7.26E-04      | 2.60E-08          |
| 520         | 1         | Surface      | Chromium    | mg/kg        | 3.17E+01   | 5.90E-06         | 1.06E-04      | 3.80E-09          |
| 520         | 1         | Surface      | Iron        | mg/kg        | 1.56E+04   | 2.90E-03         | 5.21E-02      | 1.87E-06          |
| 520         | 1         | Surface      | Mercury     | mg/kg        | 1.07E+01   | 1.98E-06         | 3.57E-05      | 3.84E-05          |
| 520         | 1         | Surface      | Nickel      | mg/kg        | 2.60E+02   | 4.84E-05         | 6.97E-04      | 3.12E-08          |
| 520         | 1         | Surface      | Silver      | mg/kg        | 1.30E+01   | 2.41E-06         | 3.47E-05      | 1.56E-09          |
| 520         | 1         | Surface      | Total PAH   | mg/kg        | 3.18E-02   | 5.92E-09         | 2.77E-07      | 2.83E-10          |
| 520         | 1         | Surface      | Uranium     | mg/kg        | 2.29E+01   | 4.26E-06         | 7.67E-05      | 2.75E-09          |
| 520         | 2         | Surface      | Beryllium   | mg/kg        | 5.79E-01   | 1.08E-07         | 2.71E-07      | 6.94E-11          |
| 520         | 2         | Surface      | Chromium    | mg/kg        | 6.67E+01   | 1.24E-05         | 2.23E-04      | 7.99E-09          |
| 520         | 2         | Surface      | Manganese   | mg/kg        | 5.89E+02   | 1.10E-04         | 1.58E-03      | 7.07E-08          |
| 520         | 2         | Surface      | Mercury     | mg/kg        | 1.19E+01   | 2.21E-06         | 3.97E-05      | 4.27E-05          |
| 520         | 2         | Surface      | Nickel      | mg/kg        | 3.11E+02   | 5.77E-05         | 8.31E-04      | 3.72E-08          |
| 520         | 2         | Surface      | Total PAH   | mg/kg        | 3.17E-01   | 5.89E-08         | 2.76E-06      | 2.82E-09          |
| 520         | 2         | Surface      | Uranium     | mg/kg        | 3.96E+01   | 7.35E-06         | 1.32E-04      | 4.74E-09          |
| 520         | 3         | Surface      | Chromium    | mg/kg        | 3.97E+01   | 7.37E-06         | 1.33E-04      | 4.76E-09          |
| 520         | 3         | Surface      | Copper      | mg/kg        | 1.19E+02   | 2.21E-05         | 3.98E-04      | 1.43E-08          |
| 520         | 3         | Surface      | Nickel      | mg/kg        | 2.65E+02   | 4.92E-05         | 7.09E-04      | 3.17E-08          |
| 520         | 3         | Surface      | Silver      | mg/kg        | 1.27E+01   | 2.35E-06         | 3.39E-05      | 1.52E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.21. Noncancerous CDIs for the Teen Recreational User (Continued)**

| <b>SWMU</b> | <b>EU</b> | <b>Depth</b> | <b>COPC</b> | <b>Units</b> | <b>EPC</b> | <b>Ingestion</b> | <b>Dermal</b> | <b>Inhalation</b> |
|-------------|-----------|--------------|-------------|--------------|------------|------------------|---------------|-------------------|
| 520         | 3         | Surface      | Total PAH   | mg/kg        | 1.18E-01   | 2.19E-08         | 1.03E-06      | 1.05E-09          |
| 520         | 3         | Surface      | Uranium     | mg/kg        | 1.92E+01   | 3.57E-06         | 6.43E-05      | 2.31E-09          |
| 520         | 4         | Surface      | Chromium    | mg/kg        | 3.82E+01   | 7.10E-06         | 1.28E-04      | 4.58E-09          |
| 520         | 4         | Surface      | Copper      | mg/kg        | 1.11E+02   | 2.06E-05         | 3.70E-04      | 1.33E-08          |
| 520         | 4         | Surface      | Mercury     | mg/kg        | 9.69E+00   | 1.80E-06         | 3.24E-05      | 3.49E-05          |
| 520         | 4         | Surface      | Nickel      | mg/kg        | 2.82E+02   | 5.24E-05         | 7.54E-04      | 3.38E-08          |
| 520         | 4         | Surface      | Silver      | mg/kg        | 1.04E+01   | 1.94E-06         | 2.79E-05      | 1.25E-09          |
| 520         | 4         | Surface      | Total PAH   | mg/kg        | 5.52E-01   | 1.03E-07         | 4.80E-06      | 4.92E-09          |
| 520         | 4         | Surface      | Uranium     | mg/kg        | 2.40E+01   | 4.46E-06         | 8.03E-05      | 2.88E-09          |
| 520         | 5         | Surface      | Antimony    | mg/kg        | 9.60E-01   | 1.78E-07         | 3.21E-06      | 1.15E-10          |
| 520         | 5         | Surface      | Chromium    | mg/kg        | 3.68E+01   | 6.84E-06         | 1.23E-04      | 4.41E-09          |
| 520         | 5         | Surface      | Nickel      | mg/kg        | 1.47E+02   | 2.73E-05         | 3.93E-04      | 1.76E-08          |
| 520         | 5         | Surface      | Total PAH   | mg/kg        | 3.87E-01   | 7.20E-08         | 3.37E-06      | 3.45E-09          |
| 81          | 1         | Surface      | Aluminum    | mg/kg        | 9.57E+03   | 1.78E-03         | 3.20E-02      | 1.15E-06          |
| 81          | 1         | Surface      | Arsenic     | mg/kg        | 1.03E+01   | 1.90E-06         | 2.06E-05      | 1.23E-09          |
| 81          | 1         | Surface      | Beryllium   | mg/kg        | 7.57E-01   | 1.41E-07         | 3.55E-07      | 9.08E-11          |
| 81          | 1         | Surface      | Chromium    | mg/kg        | 8.62E+01   | 1.60E-05         | 2.88E-04      | 1.03E-08          |
| 81          | 1         | Surface      | Mercury     | mg/kg        | 8.33E+00   | 1.55E-06         | 2.79E-05      | 3.00E-05          |
| 81          | 1         | Surface      | Nickel      | mg/kg        | 7.29E+01   | 1.35E-05         | 1.95E-04      | 8.74E-09          |
| 81          | 1         | Surface      | PCB, Total  | mg/kg        | 1.60E+02   | 2.97E-05         | 1.50E-03      | 3.25E-05          |
| 81          | 1         | Surface      | Silver      | mg/kg        | 2.70E+00   | 5.02E-07         | 7.23E-06      | 3.24E-10          |
| 81          | 1         | Surface      | Total PAH   | mg/kg        | 5.53E-01   | 1.03E-07         | 4.81E-06      | 4.92E-09          |
| 81          | 1         | Surface      | Uranium     | mg/kg        | 6.50E+03   | 1.21E-03         | 2.17E-02      | 7.79E-07          |
| 153         | 1         | Surface      | PCB, Total  | mg/kg        | 5.09E-01   | 9.46E-08         | 4.77E-06      | 1.04E-07          |
| 153         | 1         | Surface      | Total PAH   | mg/kg        | 8.69E-02   | 1.62E-08         | 7.56E-07      | 7.73E-10          |
| 156         | 1         | Surface      | Chromium    | mg/kg        | 4.90E+01   | 9.11E-06         | 1.64E-04      | 5.88E-09          |
| 156         | 1         | Surface      | Manganese   | mg/kg        | 2.83E+03   | 5.26E-04         | 7.58E-03      | 3.40E-07          |
| 156         | 1         | Surface      | Mercury     | mg/kg        | 9.87E+00   | 1.83E-06         | 3.30E-05      | 3.55E-05          |
| 156         | 1         | Surface      | Nickel      | mg/kg        | 6.16E+01   | 1.14E-05         | 1.65E-04      | 7.39E-09          |
| 156         | 1         | Surface      | PCB, Total  | mg/kg        | 3.00E-01   | 5.58E-08         | 2.81E-06      | 6.11E-08          |
| 156         | 1         | Surface      | Total PAH   | mg/kg        | 8.26E-02   | 1.54E-08         | 7.18E-07      | 7.35E-10          |
| 156         | 1         | Surface      | Uranium     | mg/kg        | 2.32E+01   | 4.31E-06         | 7.76E-05      | 2.78E-09          |
| 160         | 1         | Surface      | Antimony    | mg/kg        | 6.80E-01   | 1.26E-07         | 2.27E-06      | 8.15E-11          |
| 160         | 1         | Surface      | Total PAH   | mg/kg        | 5.29E-02   | 9.83E-09         | 4.60E-07      | 4.71E-10          |
| 163         | 1         | Surface      | Chromium    | mg/kg        | 4.94E+01   | 9.19E-06         | 1.65E-04      | 5.93E-09          |
| 163         | 1         | Surface      | Total PAH   | mg/kg        | 1.63E-01   | 3.03E-08         | 1.42E-06      | 1.45E-09          |
| 219         | 1         | Surface      | Nickel      | mg/kg        | 6.71E+01   | 1.25E-05         | 1.80E-04      | 8.05E-09          |
| 219         | 1         | Surface      | Total PAH   | mg/kg        | 7.50E-02   | 1.39E-08         | 6.53E-07      | 6.68E-10          |
| 488         | 1         | Surface      | PCB, Total  | mg/kg        | 1.03E+01   | 1.91E-06         | 9.65E-05      | 2.10E-06          |
| 488         | 1         | Surface      | Total PAH   | mg/kg        | 2.50E-01   | 4.64E-08         | 2.17E-06      | 2.22E-09          |
| 488         | 1         | Surface      | Uranium     | mg/kg        | 1.48E+01   | 2.75E-06         | 4.95E-05      | 1.77E-09          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 1    | 1  | Surface | Beryllium         | mg/kg | 3.89E+00 | 1.24E-07  | 3.13E-07 | 8.00E-11   |                   |
| 1    | 1  | Surface | Cadmium           | mg/kg | 1.10E+00 | 3.50E-08  | 1.26E-08 | 2.26E-11   |                   |
| 1    | 1  | Surface | Chromium          | mg/kg | 1.28E+01 | 4.08E-07  | 7.35E-06 | 2.63E-10   |                   |
| 1    | 1  | Surface | PCB, Total        | mg/kg | 1.76E-01 | 5.61E-09  | 2.83E-07 | 6.14E-09   |                   |
| 1    | 1  | Surface | Cesium-137        | pCi/g | 5.91E-01 | 2.07E+01  |          | 1.33E-02   | 5.67E-01          |
| 1    | 1  | Surface | Neptunium-237     | pCi/g | 4.02E-01 | 1.41E+01  |          | 9.08E-03   | 3.85E-01          |
| 1    | 1  | Surface | Plutonium-239/240 | pCi/g | 6.14E+00 | 2.15E+02  |          | 1.39E-01   | 5.89E+00          |
| 1    | 1  | Surface | Thorium-230       | pCi/g | 4.40E+01 | 1.54E+03  |          | 9.94E-01   | 4.22E+01          |
| 1    | 1  | Surface | Uranium-235       | pCi/g | 1.06E-01 | 3.71E+00  |          | 2.39E-03   | 1.02E-01          |
| 1    | 1  | Surface | Uranium-238       | pCi/g | 1.97E+00 | 6.91E+01  |          | 4.46E-02   | 1.89E+00          |
| 1    | 2  | Surface | Beryllium         | mg/kg | 8.23E+00 | 2.62E-07  | 6.61E-07 | 1.69E-10   |                   |
| 1    | 2  | Surface | Cadmium           | mg/kg | 6.46E+00 | 2.06E-07  | 7.41E-08 | 1.33E-10   |                   |
| 1    | 2  | Surface | Chromium          | mg/kg | 2.01E+02 | 6.41E-06  | 1.15E-04 | 4.14E-09   |                   |
| 1    | 2  | Surface | Copper            | mg/kg | 1.81E+02 | 5.76E-06  | 1.04E-04 | 3.72E-09   |                   |
| 1    | 2  | Surface | Mercury           | mg/kg | 5.94E+00 | 1.89E-07  | 3.41E-06 | 3.66E-06   |                   |
| 1    | 2  | Surface | Nickel            | mg/kg | 5.75E+01 | 1.83E-06  | 2.64E-05 | 1.18E-09   |                   |
| 1    | 2  | Surface | PCB, Total        | mg/kg | 3.21E+01 | 1.02E-06  | 5.16E-05 | 1.12E-06   |                   |
| 1    | 2  | Surface | Silver            | mg/kg | 3.31E+01 | 1.06E-06  | 1.52E-05 | 6.81E-10   |                   |
| 1    | 2  | Surface | Thallium          | mg/kg | 3.70E-01 | 1.18E-08  | 2.12E-07 | 7.60E-12   |                   |
| 1    | 2  | Surface | Vanadium          | mg/kg | 3.49E+01 | 1.11E-06  | 1.04E-05 | 7.16E-10   |                   |
| 1    | 3  | Surface | Chromium          | mg/kg | 1.45E+01 | 4.61E-07  | 8.30E-06 | 2.97E-10   |                   |
| 1    | 3  | Surface | PCB, Total        | mg/kg | 2.17E-01 | 6.91E-09  | 3.48E-07 | 7.57E-09   |                   |
| 1    | 3  | Surface | Uranium-238       | pCi/g | 1.73E+00 | 6.06E+01  |          | 3.91E-02   | 1.66E+00          |
| 1    | 4  | Surface | Beryllium         | mg/kg | 7.25E-01 | 2.31E-08  | 5.82E-08 | 1.49E-11   |                   |
| 1    | 4  | Surface | Chromium          | mg/kg | 9.30E+01 | 2.96E-06  | 5.33E-05 | 1.91E-09   |                   |
| 1    | 4  | Surface | Nickel            | mg/kg | 4.69E+01 | 1.49E-06  | 2.15E-05 | 9.63E-10   |                   |
| 1    | 4  | Surface | PCB, Total        | mg/kg | 1.30E-01 | 4.14E-09  | 2.09E-07 | 4.54E-09   |                   |
| 1    | 4  | Surface | Cobalt-60         | pCi/g | 2.20E-02 | 7.70E-01  |          | 4.97E-04   | 2.11E-02          |
| 1    | 4  | Surface | Thorium-230       | pCi/g | 5.03E+00 | 1.76E+02  |          | 1.14E-01   | 4.82E+00          |
| 1    | 5  | Surface | Beryllium         | mg/kg | 8.30E+00 | 2.64E-07  | 6.66E-07 | 1.71E-10   |                   |
| 1    | 5  | Surface | Cadmium           | mg/kg | 1.20E+00 | 3.82E-08  | 1.38E-08 | 2.47E-11   |                   |
| 1    | 5  | Surface | Nickel            | mg/kg | 4.07E+01 | 1.30E-06  | 1.87E-05 | 8.37E-10   |                   |
| 1    | 5  | Surface | PCB, Total        | mg/kg | 2.70E-01 | 8.60E-09  | 4.34E-07 | 9.42E-09   |                   |
| 1    | 5  | Surface | Total PAH         | mg/kg | 9.83E-02 | 3.13E-09  | 1.47E-07 | 1.50E-10   |                   |
| 99   | 1  | Surface | Chromium          | mg/kg | 5.51E+01 | 1.76E-06  | 3.16E-05 | 1.13E-09   |                   |
| 99   | 1  | Surface | Mercury           | mg/kg | 9.53E+00 | 3.04E-07  | 5.46E-06 | 5.88E-06   |                   |
| 99   | 1  | Surface | Nickel            | mg/kg | 7.02E+01 | 2.24E-06  | 3.22E-05 | 1.44E-09   |                   |
| 99   | 1  | Surface | Silver            | mg/kg | 1.03E+01 | 3.28E-07  | 4.73E-06 | 2.12E-10   |                   |
| 99   | 1  | Surface | Cobalt-60         | pCi/g | 1.19E-02 | 4.17E-01  |          | 2.69E-04   | 1.14E-02          |
| 99   | 1  | Surface | Uranium-238       | pCi/g | 9.45E-01 | 3.31E+01  |          | 2.13E-02   | 9.06E-01          |
| 194  | 1  | Surface | Antimony          | mg/kg | 1.50E+00 | 4.78E-08  | 8.60E-07 | 3.08E-11   |                   |
| 194  | 1  | Surface | Chromium          | mg/kg | 3.87E+01 | 1.23E-06  | 2.22E-05 | 7.96E-10   |                   |
| 194  | 1  | Surface | Mercury           | mg/kg | 6.71E+00 | 2.14E-07  | 3.85E-06 | 4.14E-06   |                   |
| 194  | 1  | Surface | Nickel            | mg/kg | 5.84E+01 | 1.86E-06  | 2.68E-05 | 1.20E-09   |                   |
| 194  | 1  | Surface | Silver            | mg/kg | 1.09E+01 | 3.48E-07  | 5.01E-06 | 2.25E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 2  | Surface | Chromium    | mg/kg | 5.96E+01 | 1.90E-06  | 3.42E-05 | 1.22E-09   |                   |
| 194  | 2  | Surface | Silver      | mg/kg | 1.31E+01 | 4.18E-07  | 6.02E-06 | 2.70E-10   |                   |
| 194  | 2  | Surface | Uranium     | mg/kg | 2.28E+01 | 7.26E-07  | 1.31E-05 | 4.68E-10   |                   |
| 194  | 2  | Surface | Uranium-238 | pCi/g | 1.42E+00 | 4.97E+01  |          | 3.21E-02   | 1.36E+00          |
| 194  | 3  | Surface | Antimony    | mg/kg | 6.90E-01 | 2.20E-08  | 3.96E-07 | 1.42E-11   |                   |
| 194  | 3  | Surface | Arsenic     | mg/kg | 1.46E+01 | 4.66E-07  | 5.04E-06 | 3.01E-10   |                   |
| 194  | 3  | Surface | Chromium    | mg/kg | 3.90E+01 | 1.24E-06  | 2.24E-05 | 8.01E-10   |                   |
| 194  | 3  | Surface | Nickel      | mg/kg | 6.40E+01 | 2.04E-06  | 2.94E-05 | 1.32E-09   |                   |
| 194  | 3  | Surface | Total PAH   | mg/kg | 3.93E-02 | 1.25E-09  | 5.86E-08 | 6.00E-11   |                   |
| 194  | 3  | Surface | Uranium-238 | pCi/g | 1.28E+00 | 4.49E+01  |          | 2.90E-02   | 1.23E+00          |
| 194  | 4  | Surface | Chromium    | mg/kg | 4.84E+01 | 1.54E-06  | 2.78E-05 | 9.95E-10   |                   |
| 194  | 4  | Surface | Mercury     | mg/kg | 8.92E+00 | 2.84E-07  | 5.12E-06 | 5.50E-06   |                   |
| 194  | 4  | Surface | Nickel      | mg/kg | 6.91E+01 | 2.20E-06  | 3.17E-05 | 1.42E-09   |                   |
| 194  | 4  | Surface | Silver      | mg/kg | 1.18E+01 | 3.75E-07  | 5.40E-06 | 2.42E-10   |                   |
| 194  | 4  | Surface | Total PAH   | mg/kg | 7.30E-02 | 2.32E-09  | 1.09E-07 | 1.11E-10   |                   |
| 194  | 4  | Surface | Uranium-238 | pCi/g | 1.73E+00 | 6.06E+01  |          | 3.91E-02   | 1.66E+00          |
| 194  | 5  | Surface | Chromium    | mg/kg | 4.58E+01 | 1.46E-06  | 2.63E-05 | 9.41E-10   |                   |
| 194  | 5  | Surface | Mercury     | mg/kg | 8.69E+00 | 2.77E-07  | 4.98E-06 | 5.36E-06   |                   |
| 194  | 5  | Surface | Nickel      | mg/kg | 7.54E+01 | 2.40E-06  | 3.46E-05 | 1.55E-09   |                   |
| 194  | 5  | Surface | Silver      | mg/kg | 1.25E+01 | 3.97E-07  | 5.71E-06 | 2.56E-10   |                   |
| 194  | 5  | Surface | Total PAH   | mg/kg | 2.37E-02 | 7.55E-10  | 3.53E-08 | 3.62E-11   |                   |
| 194  | 5  | Surface | Uranium-238 | pCi/g | 1.38E+00 | 4.83E+01  |          | 3.12E-02   | 1.32E+00          |
| 194  | 6  | Surface | Chromium    | mg/kg | 3.70E+01 | 1.18E-06  | 2.12E-05 | 7.61E-10   |                   |
| 194  | 6  | Surface | Manganese   | mg/kg | 1.08E+03 | 3.44E-05  | 4.95E-04 | 2.22E-08   |                   |
| 194  | 6  | Surface | Nickel      | mg/kg | 8.06E+01 | 2.57E-06  | 3.70E-05 | 1.66E-09   |                   |
| 194  | 6  | Surface | Silver      | mg/kg | 9.89E+00 | 3.15E-07  | 4.54E-06 | 2.03E-10   |                   |
| 194  | 6  | Surface | Uranium-238 | pCi/g | 1.32E+00 | 4.62E+01  |          | 2.98E-02   | 1.27E+00          |
| 194  | 7  | Surface | Chromium    | mg/kg | 5.32E+01 | 1.69E-06  | 3.05E-05 | 1.09E-09   |                   |
| 194  | 7  | Surface | Nickel      | mg/kg | 7.71E+01 | 2.46E-06  | 3.54E-05 | 1.59E-09   |                   |
| 194  | 7  | Surface | Silver      | mg/kg | 1.25E+01 | 3.98E-07  | 5.73E-06 | 2.57E-10   |                   |
| 194  | 8  | Surface | Chromium    | mg/kg | 5.36E+01 | 1.71E-06  | 3.07E-05 | 1.10E-09   |                   |
| 194  | 8  | Surface | Manganese   | mg/kg | 8.00E+02 | 2.55E-05  | 3.67E-04 | 1.64E-08   |                   |
| 194  | 8  | Surface | Total PAH   | mg/kg | 4.85E-01 | 1.55E-08  | 7.23E-07 | 7.40E-10   |                   |
| 194  | 8  | Surface | Uranium-238 | pCi/g | 1.39E+00 | 4.87E+01  |          | 3.14E-02   | 1.33E+00          |
| 194  | 9  | Surface | Arsenic     | mg/kg | 1.14E+01 | 3.64E-07  | 3.93E-06 | 2.35E-10   |                   |
| 194  | 9  | Surface | Chromium    | mg/kg | 5.17E+01 | 1.65E-06  | 2.96E-05 | 1.06E-09   |                   |
| 194  | 10 | Surface | Arsenic     | mg/kg | 1.22E+01 | 3.87E-07  | 4.18E-06 | 2.50E-10   |                   |
| 194  | 10 | Surface | Chromium    | mg/kg | 3.63E+01 | 1.16E-06  | 2.08E-05 | 7.46E-10   |                   |
| 194  | 10 | Surface | Nickel      | mg/kg | 7.60E+01 | 2.42E-06  | 3.49E-05 | 1.56E-09   |                   |
| 194  | 10 | Surface | Total PAH   | mg/kg | 2.57E-01 | 8.19E-09  | 3.83E-07 | 3.92E-10   |                   |
| 194  | 10 | Surface | Cesium-137  | pCi/g | 5.81E-01 | 2.03E+01  |          | 1.31E-02   | 5.57E-01          |
| 194  | 10 | Surface | Uranium-238 | pCi/g | 1.49E+00 | 5.22E+01  |          | 3.36E-02   | 1.43E+00          |
| 194  | 11 | Surface | Chromium    | mg/kg | 3.27E+01 | 1.04E-06  | 1.87E-05 | 6.72E-10   |                   |
| 194  | 11 | Surface | Mercury     | mg/kg | 8.09E+00 | 2.58E-07  | 4.64E-06 | 4.99E-06   |                   |
| 194  | 11 | Surface | Nickel      | mg/kg | 1.01E+02 | 3.21E-06  | 4.62E-05 | 2.07E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC       | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 11 | Surface | PCB, Total | mg/kg | 8.40E-02 | 2.68E-09  | 1.35E-07 | 2.93E-09   |                   |
| 194  | 11 | Surface | Silver     | mg/kg | 1.33E+01 | 4.23E-07  | 6.10E-06 | 2.73E-10   |                   |
| 194  | 11 | Surface | Total PAH  | mg/kg | 7.95E-02 | 2.53E-09  | 1.19E-07 | 1.21E-10   |                   |
| 194  | 12 | Surface | Chromium   | mg/kg | 6.34E+01 | 2.02E-06  | 3.63E-05 | 1.30E-09   |                   |
| 194  | 12 | Surface | Nickel     | mg/kg | 7.86E+01 | 2.50E-06  | 3.61E-05 | 1.62E-09   |                   |
| 194  | 12 | Surface | Silver     | mg/kg | 1.20E+01 | 3.82E-07  | 5.50E-06 | 2.46E-10   |                   |
| 194  | 12 | Surface | Total PAH  | mg/kg | 8.91E-01 | 2.84E-08  | 1.33E-06 | 1.36E-09   |                   |
| 194  | 13 | Surface | Chromium   | mg/kg | 4.77E+01 | 1.52E-06  | 2.73E-05 | 9.79E-10   |                   |
| 194  | 13 | Surface | Nickel     | mg/kg | 6.03E+01 | 1.92E-06  | 2.77E-05 | 1.24E-09   |                   |
| 194  | 13 | Surface | Total PAH  | mg/kg | 9.13E-02 | 2.91E-09  | 1.36E-07 | 1.39E-10   |                   |
| 194  | 14 | Surface | Chromium   | mg/kg | 5.21E+01 | 1.66E-06  | 2.99E-05 | 1.07E-09   |                   |
| 194  | 14 | Surface | Mercury    | mg/kg | 8.14E+00 | 2.59E-07  | 4.67E-06 | 5.02E-06   |                   |
| 194  | 15 | Surface | Chromium   | mg/kg | 5.33E+01 | 1.70E-06  | 3.06E-05 | 1.10E-09   |                   |
| 194  | 15 | Surface | Silver     | mg/kg | 1.03E+01 | 3.28E-07  | 4.73E-06 | 2.12E-10   |                   |
| 194  | 16 | Surface | Antimony   | mg/kg | 7.40E-01 | 2.36E-08  | 4.24E-07 | 1.52E-11   |                   |
| 194  | 16 | Surface | Arsenic    | mg/kg | 1.15E+01 | 3.67E-07  | 3.96E-06 | 2.37E-10   |                   |
| 194  | 16 | Surface | Beryllium  | mg/kg | 8.70E-01 | 2.77E-08  | 6.98E-08 | 1.79E-11   |                   |
| 194  | 16 | Surface | Chromium   | mg/kg | 5.32E+01 | 1.70E-06  | 3.05E-05 | 1.09E-09   |                   |
| 194  | 16 | Surface | Nickel     | mg/kg | 7.20E+01 | 2.29E-06  | 3.30E-05 | 1.48E-09   |                   |
| 194  | 16 | Surface | Thallium   | mg/kg | 6.30E-01 | 2.01E-08  | 3.61E-07 | 1.29E-11   |                   |
| 194  | 16 | Surface | Vanadium   | mg/kg | 4.11E+01 | 1.31E-06  | 1.23E-05 | 8.45E-10   |                   |
| 194  | 17 | Surface | Arsenic    | mg/kg | 1.16E+01 | 3.68E-07  | 3.97E-06 | 2.37E-10   |                   |
| 194  | 17 | Surface | Cadmium    | mg/kg | 1.10E+00 | 3.50E-08  | 1.26E-08 | 2.26E-11   |                   |
| 194  | 17 | Surface | Chromium   | mg/kg | 4.65E+01 | 1.48E-06  | 2.67E-05 | 9.55E-10   |                   |
| 194  | 17 | Surface | Total PAH  | mg/kg | 1.59E-01 | 5.05E-09  | 2.37E-07 | 2.42E-10   |                   |
| 194  | 18 | Surface | Arsenic    | mg/kg | 1.06E+01 | 3.37E-07  | 3.64E-06 | 2.17E-10   |                   |
| 194  | 18 | Surface | Beryllium  | mg/kg | 7.40E-01 | 2.36E-08  | 5.94E-08 | 1.52E-11   |                   |
| 194  | 18 | Surface | Chromium   | mg/kg | 6.85E+01 | 2.18E-06  | 3.93E-05 | 1.41E-09   |                   |
| 194  | 18 | Surface | Nickel     | mg/kg | 5.78E+01 | 1.84E-06  | 2.65E-05 | 1.19E-09   |                   |
| 194  | 19 | Surface | Arsenic    | mg/kg | 1.07E+01 | 3.41E-07  | 3.68E-06 | 2.20E-10   |                   |
| 194  | 19 | Surface | Chromium   | mg/kg | 4.84E+01 | 1.54E-06  | 2.77E-05 | 9.94E-10   |                   |
| 194  | 19 | Surface | Nickel     | mg/kg | 5.84E+01 | 1.86E-06  | 2.68E-05 | 1.20E-09   |                   |
| 194  | 20 | Surface | Arsenic    | mg/kg | 1.18E+01 | 3.77E-07  | 4.07E-06 | 2.43E-10   |                   |
| 194  | 20 | Surface | Barium     | mg/kg | 3.26E+02 | 1.04E-05  | 1.87E-04 | 6.70E-09   |                   |
| 194  | 20 | Surface | Beryllium  | mg/kg | 1.10E+00 | 3.50E-08  | 8.83E-08 | 2.26E-11   |                   |
| 194  | 20 | Surface | Chromium   | mg/kg | 5.24E+01 | 1.67E-06  | 3.00E-05 | 1.08E-09   |                   |
| 194  | 20 | Surface | Cobalt     | mg/kg | 2.11E+01 | 6.72E-07  | 1.21E-05 | 4.34E-10   |                   |
| 194  | 20 | Surface | Manganese  | mg/kg | 2.29E+03 | 7.31E-05  | 1.05E-03 | 4.71E-08   |                   |
| 194  | 20 | Surface | Mercury    | mg/kg | 7.28E+00 | 2.32E-07  | 4.17E-06 | 4.49E-06   |                   |
| 194  | 20 | Surface | Nickel     | mg/kg | 6.57E+01 | 2.09E-06  | 3.01E-05 | 1.35E-09   |                   |
| 194  | 20 | Surface | Silver     | mg/kg | 1.22E+01 | 3.89E-07  | 5.61E-06 | 2.51E-10   |                   |
| 194  | 20 | Surface | Total PAH  | mg/kg | 3.10E-02 | 9.88E-10  | 4.62E-08 | 4.73E-11   |                   |
| 194  | 20 | Surface | Vanadium   | mg/kg | 3.81E+01 | 1.21E-06  | 1.14E-05 | 7.83E-10   |                   |
| 194  | 21 | Surface | Antimony   | mg/kg | 9.30E-01 | 2.96E-08  | 5.33E-07 | 1.91E-11   |                   |
| 194  | 21 | Surface | Chromium   | mg/kg | 5.51E+01 | 1.76E-06  | 3.16E-05 | 1.13E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 194  | 21 | Surface | Mercury     | mg/kg | 6.62E+00 | 2.11E-07  | 3.80E-06 | 4.08E-06   |                   |
| 194  | 21 | Surface | Nickel      | mg/kg | 7.01E+01 | 2.23E-06  | 3.22E-05 | 1.44E-09   |                   |
| 194  | 21 | Surface | Thallium    | mg/kg | 6.40E-01 | 2.04E-08  | 3.67E-07 | 1.32E-11   |                   |
| 194  | 22 | Surface | Chromium    | mg/kg | 4.90E+01 | 1.56E-06  | 2.81E-05 | 1.01E-09   |                   |
| 194  | 22 | Surface | Manganese   | mg/kg | 8.19E+02 | 2.61E-05  | 3.76E-04 | 1.68E-08   |                   |
| 194  | 22 | Surface | PCB, Total  | mg/kg | 1.09E+01 | 3.48E-07  | 1.75E-05 | 3.81E-07   |                   |
| 194  | 23 | Surface | Arsenic     | mg/kg | 1.16E+01 | 3.68E-07  | 3.97E-06 | 2.37E-10   |                   |
| 194  | 23 | Surface | Chromium    | mg/kg | 6.60E+01 | 2.10E-06  | 3.78E-05 | 1.36E-09   |                   |
| 194  | 23 | Surface | Iron        | mg/kg | 1.83E+04 | 5.82E-04  | 1.05E-02 | 3.76E-07   |                   |
| 194  | 23 | Surface | Nickel      | mg/kg | 8.77E+01 | 2.79E-06  | 4.02E-05 | 1.80E-09   |                   |
| 194  | 23 | Surface | Silver      | mg/kg | 1.15E+01 | 3.66E-07  | 5.27E-06 | 2.36E-10   |                   |
| 194  | 24 | Surface | Chromium    | mg/kg | 5.02E+01 | 1.60E-06  | 2.88E-05 | 1.03E-09   |                   |
| 194  | 24 | Surface | Nickel      | mg/kg | 7.08E+01 | 2.25E-06  | 3.25E-05 | 1.45E-09   |                   |
| 194  | 24 | Surface | Total PAH   | mg/kg | 2.28E-02 | 7.26E-10  | 3.40E-08 | 3.48E-11   |                   |
| 194  | 25 | Surface | Barium      | mg/kg | 3.00E+02 | 9.56E-06  | 1.72E-04 | 6.17E-09   |                   |
| 194  | 25 | Surface | Chromium    | mg/kg | 6.13E+01 | 1.95E-06  | 3.51E-05 | 1.26E-09   |                   |
| 194  | 25 | Surface | Manganese   | mg/kg | 9.96E+02 | 3.17E-05  | 4.57E-04 | 2.05E-08   |                   |
| 194  | 25 | Surface | Nickel      | mg/kg | 6.33E+01 | 2.02E-06  | 2.90E-05 | 1.30E-09   |                   |
| 194  | 25 | Surface | Total PAH   | mg/kg | 2.06E-02 | 6.56E-10  | 3.07E-08 | 3.14E-11   |                   |
| 194  | 26 | Surface | Beryllium   | mg/kg | 7.00E-01 | 2.23E-08  | 5.62E-08 | 1.44E-11   |                   |
| 194  | 26 | Surface | Chromium    | mg/kg | 4.18E+01 | 1.33E-06  | 2.40E-05 | 8.60E-10   |                   |
| 194  | 26 | Surface | Silver      | mg/kg | 1.03E+01 | 3.27E-07  | 4.71E-06 | 2.11E-10   |                   |
| 194  | 26 | Surface | Thallium    | mg/kg | 3.90E-01 | 1.24E-08  | 2.24E-07 | 8.02E-12   |                   |
| 194  | 27 | Surface | Chromium    | mg/kg | 5.22E+01 | 1.66E-06  | 2.99E-05 | 1.07E-09   |                   |
| 194  | 27 | Surface | Nickel      | mg/kg | 6.55E+01 | 2.09E-06  | 3.00E-05 | 1.35E-09   |                   |
| 194  | 27 | Surface | Silver      | mg/kg | 1.01E+01 | 3.22E-07  | 4.64E-06 | 2.08E-10   |                   |
| 194  | 28 | Surface | Arsenic     | mg/kg | 1.20E+01 | 3.83E-07  | 4.14E-06 | 2.47E-10   |                   |
| 194  | 28 | Surface | Beryllium   | mg/kg | 7.10E-01 | 2.26E-08  | 5.70E-08 | 1.46E-11   |                   |
| 194  | 28 | Surface | Chromium    | mg/kg | 6.07E+01 | 1.93E-06  | 3.48E-05 | 1.25E-09   |                   |
| 194  | 28 | Surface | Manganese   | mg/kg | 1.14E+03 | 3.63E-05  | 5.22E-04 | 2.34E-08   |                   |
| 194  | 28 | Surface | Nickel      | mg/kg | 6.95E+01 | 2.21E-06  | 3.19E-05 | 1.43E-09   |                   |
| 194  | 28 | Surface | Silver      | mg/kg | 1.08E+01 | 3.44E-07  | 4.95E-06 | 2.22E-10   |                   |
| 194  | 28 | Surface | Vanadium    | mg/kg | 4.06E+01 | 1.29E-06  | 1.21E-05 | 8.34E-10   |                   |
| 194  | 29 | Surface | Antimony    | mg/kg | 7.10E-01 | 2.26E-08  | 4.07E-07 | 1.46E-11   |                   |
| 194  | 29 | Surface | Chromium    | mg/kg | 5.06E+01 | 1.61E-06  | 2.90E-05 | 1.04E-09   |                   |
| 194  | 29 | Surface | Nickel      | mg/kg | 6.51E+01 | 2.07E-06  | 2.99E-05 | 1.34E-09   |                   |
| 194  | 29 | Surface | Silver      | mg/kg | 9.77E+00 | 3.11E-07  | 4.48E-06 | 2.01E-10   |                   |
| 194  | 30 | Surface | Chromium    | mg/kg | 5.66E+01 | 1.80E-06  | 3.24E-05 | 1.16E-09   |                   |
| 194  | 30 | Surface | Mercury     | mg/kg | 8.80E+00 | 2.80E-07  | 5.05E-06 | 5.43E-06   |                   |
| 194  | 30 | Surface | Nickel      | mg/kg | 6.99E+01 | 2.23E-06  | 3.21E-05 | 1.44E-09   |                   |
| 194  | 30 | Surface | Silver      | mg/kg | 9.76E+00 | 3.11E-07  | 4.48E-06 | 2.01E-10   |                   |
| 194  | 31 | Surface | Cesium-137  | pCi/g | 5.70E-01 | 2.00E+01  |          | 1.29E-02   | 5.47E-01          |
| 194  | 31 | Surface | Uranium-238 | pCi/g | 1.72E+00 | 6.02E+01  |          | 3.88E-02   | 1.65E+00          |
| 196  | 1  | Surface | Antimony    | mg/kg | 5.90E-01 | 1.88E-08  | 3.38E-07 | 1.21E-11   |                   |
| 196  | 1  | Surface | Chromium    | mg/kg | 1.96E+01 | 6.24E-07  | 1.12E-05 | 4.03E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 196  | 1  | Surface | Nickel        | mg/kg | 5.56E+02 | 1.77E-05  | 2.55E-04 | 1.14E-08   |                   |
| 196  | 1  | Surface | Uranium       | mg/kg | 2.33E+01 | 7.42E-07  | 1.34E-05 | 4.79E-10   |                   |
| 196  | 1  | Surface | Neptunium-237 | pCi/g | 3.11E-01 | 1.09E+01  |          | 7.02E-03   | 2.98E-01          |
| 196  | 1  | Surface | Uranium-238   | pCi/g | 1.54E+00 | 5.39E+01  |          | 3.48E-02   | 1.48E+00          |
| 196  | 2  | Surface | Barium        | mg/kg | 2.02E+02 | 6.44E-06  | 1.16E-04 | 4.15E-09   |                   |
| 196  | 2  | Surface | Cadmium       | mg/kg | 2.53E+00 | 8.06E-08  | 2.90E-08 | 5.20E-11   |                   |
| 196  | 2  | Surface | Chromium      | mg/kg | 2.07E+01 | 6.59E-07  | 1.19E-05 | 4.25E-10   |                   |
| 196  | 2  | Surface | Nickel        | mg/kg | 7.36E+01 | 2.34E-06  | 3.38E-05 | 1.51E-09   |                   |
| 196  | 2  | Surface | PCB, Total    | mg/kg | 1.51E+00 | 4.81E-08  | 2.42E-06 | 5.27E-08   |                   |
| 196  | 2  | Surface | Total PAH     | mg/kg | 6.80E-01 | 2.17E-08  | 1.01E-06 | 1.04E-09   |                   |
| 196  | 2  | Surface | Uranium-238   | pCi/g | 2.21E+00 | 7.74E+01  |          | 4.99E-02   | 2.12E+00          |
| 489  | 1  | Surface | Chromium      | mg/kg | 4.16E+01 | 1.33E-06  | 2.39E-05 | 8.56E-10   |                   |
| 489  | 1  | Surface | Nickel        | mg/kg | 7.88E+01 | 2.51E-06  | 3.62E-05 | 1.62E-09   |                   |
| 489  | 1  | Surface | Total PAH     | mg/kg | 8.22E-02 | 2.62E-09  | 1.23E-07 | 1.25E-10   |                   |
| 489  | 1  | Surface | Uranium-238   | pCi/g | 1.47E+00 | 5.15E+01  |          | 3.32E-02   | 1.41E+00          |
| 531  | 1  | Surface | Antimony      | mg/kg | 1.00E+00 | 3.19E-08  | 5.73E-07 | 2.06E-11   |                   |
| 531  | 1  | Surface | Arsenic       | mg/kg | 4.68E+01 | 1.49E-06  | 1.61E-05 | 9.62E-10   |                   |
| 531  | 1  | Surface | Cadmium       | mg/kg | 3.10E+00 | 9.88E-08  | 3.56E-08 | 6.37E-11   |                   |
| 531  | 1  | Surface | Chromium      | mg/kg | 5.05E+01 | 1.61E-06  | 2.89E-05 | 1.04E-09   |                   |
| 531  | 1  | Surface | Iron          | mg/kg | 5.68E+04 | 1.81E-03  | 3.26E-02 | 1.17E-06   |                   |
| 531  | 1  | Surface | Nickel        | mg/kg | 1.62E+02 | 5.17E-06  | 7.44E-05 | 3.33E-09   |                   |
| 531  | 1  | Surface | Total PAH     | mg/kg | 5.34E-02 | 1.70E-09  | 7.96E-08 | 8.14E-11   |                   |
| 531  | 1  | Surface | Uranium       | mg/kg | 2.41E+01 | 7.67E-07  | 1.38E-05 | 4.95E-10   |                   |
| 531  | 1  | Surface | Zinc          | mg/kg | 2.45E+03 | 7.81E-05  | 1.41E-03 | 5.04E-08   |                   |
| 531  | 1  | Surface | Uranium-235   | pCi/g | 1.38E-01 | 4.83E+00  |          | 3.12E-03   | 1.32E-01          |
| 531  | 1  | Surface | Uranium-238   | pCi/g | 3.48E+00 | 1.22E+02  |          | 7.86E-02   | 3.34E+00          |
| 200  | 1  | Surface | Antimony      | mg/kg | 5.60E-01 | 1.78E-08  | 3.21E-07 | 1.15E-11   |                   |
| 200  | 1  | Surface | Chromium      | mg/kg | 5.75E+01 | 1.83E-06  | 3.30E-05 | 1.18E-09   |                   |
| 200  | 1  | Surface | Mercury       | mg/kg | 6.71E+00 | 2.14E-07  | 3.85E-06 | 4.14E-06   |                   |
| 200  | 1  | Surface | Nickel        | mg/kg | 1.28E+02 | 4.08E-06  | 5.87E-05 | 2.63E-09   |                   |
| 200  | 1  | Surface | PCB, Total    | mg/kg | 2.60E+00 | 8.28E-08  | 4.17E-06 | 9.07E-08   |                   |
| 200  | 1  | Surface | Total PAH     | mg/kg | 2.84E-02 | 9.05E-10  | 4.23E-08 | 4.33E-11   |                   |
| 200  | 1  | Surface | Uranium       | mg/kg | 2.73E+01 | 8.70E-07  | 1.57E-05 | 5.61E-10   |                   |
| 200  | 1  | Surface | Cesium-137    | pCi/g | 5.74E-01 | 2.01E+01  |          | 1.30E-02   | 5.50E-01          |
| 200  | 1  | Surface | Uranium-235   | pCi/g | 1.43E-01 | 5.01E+00  |          | 3.23E-03   | 1.37E-01          |
| 200  | 1  | Surface | Uranium-238   | pCi/g | 3.58E+00 | 1.25E+02  |          | 8.08E-02   | 3.43E+00          |
| 212  | 1  | Surface | Arsenic       | mg/kg | 1.44E+01 | 4.59E-07  | 4.96E-06 | 2.96E-10   |                   |
| 212  | 1  | Surface | Beryllium     | mg/kg | 8.10E-01 | 2.58E-08  | 6.50E-08 | 1.66E-11   |                   |
| 212  | 1  | Surface | Chromium      | mg/kg | 3.58E+01 | 1.14E-06  | 2.05E-05 | 7.36E-10   |                   |
| 212  | 1  | Surface | Iron          | mg/kg | 4.14E+04 | 1.32E-03  | 2.37E-02 | 8.51E-07   |                   |
| 212  | 1  | Surface | Nickel        | mg/kg | 8.69E+01 | 2.77E-06  | 3.99E-05 | 1.79E-09   |                   |
| 212  | 1  | Surface | PCB, Total    | mg/kg | 1.80E-01 | 5.73E-09  | 2.89E-07 | 6.28E-09   |                   |
| 212  | 1  | Surface | Uranium       | mg/kg | 2.30E+01 | 7.33E-07  | 1.32E-05 | 4.73E-10   |                   |
| 212  | 1  | Surface | Cesium-137    | pCi/g | 6.01E-01 | 2.10E+01  |          | 1.36E-02   | 5.76E-01          |
| 212  | 1  | Surface | Cobalt-60     | pCi/g | 8.76E-03 | 3.07E-01  |          | 1.98E-04   | 8.40E-03          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 212  | 1  | Surface | Neptunium-237     | pCi/g | 4.00E+00 | 1.40E+02  |          | 9.03E-02   | 3.84E+00          |
| 212  | 1  | Surface | Plutonium-239/240 | pCi/g | 6.71E+00 | 2.35E+02  |          | 1.52E-01   | 6.43E+00          |
| 212  | 1  | Surface | Thorium-230       | pCi/g | 2.60E+02 | 9.10E+03  |          | 5.87E+00   | 2.49E+02          |
| 212  | 1  | Surface | Uranium-235       | pCi/g | 2.09E-01 | 7.32E+00  |          | 4.72E-03   | 2.00E-01          |
| 212  | 1  | Surface | Uranium-238       | pCi/g | 3.17E+00 | 1.11E+02  |          | 7.16E-02   | 3.04E+00          |
| 213  | 1  | Surface | Antimony          | mg/kg | 8.50E-01 | 2.71E-08  | 4.87E-07 | 1.75E-11   |                   |
| 213  | 1  | Surface | Chromium          | mg/kg | 4.78E+01 | 1.52E-06  | 2.74E-05 | 9.83E-10   |                   |
| 213  | 1  | Surface | Nickel            | mg/kg | 6.67E+01 | 2.13E-06  | 3.06E-05 | 1.37E-09   |                   |
| 213  | 1  | Surface | PCB, Total        | mg/kg | 7.30E-02 | 2.33E-09  | 1.17E-07 | 2.55E-09   |                   |
| 213  | 1  | Surface | Silver            | mg/kg | 1.32E+01 | 4.20E-07  | 6.04E-06 | 2.71E-10   |                   |
| 213  | 1  | Surface | Total PAH         | mg/kg | 1.72E-01 | 5.47E-09  | 2.56E-07 | 2.62E-10   |                   |
| 213  | 1  | Surface | Uranium-238       | pCi/g | 2.33E+00 | 8.16E+01  |          | 5.26E-02   | 2.23E+00          |
| 213  | 2  | Surface | Chromium          | mg/kg | 4.48E+01 | 1.43E-06  | 2.57E-05 | 9.21E-10   |                   |
| 213  | 2  | Surface | Nickel            | mg/kg | 9.10E+01 | 2.90E-06  | 4.17E-05 | 1.87E-09   |                   |
| 213  | 2  | Surface | Silver            | mg/kg | 1.13E+01 | 3.59E-07  | 5.17E-06 | 2.31E-10   |                   |
| 214  | 1  | Surface | Antimony          | mg/kg | 5.70E-01 | 1.82E-08  | 3.27E-07 | 1.17E-11   |                   |
| 215  | 1  | Surface | Antimony          | mg/kg | 6.80E-01 | 2.17E-08  | 3.90E-07 | 1.40E-11   |                   |
| 215  | 1  | Surface | Chromium          | mg/kg | 5.73E+01 | 1.83E-06  | 3.29E-05 | 1.18E-09   |                   |
| 215  | 1  | Surface | Iron              | mg/kg | 3.87E+04 | 1.23E-03  | 2.22E-02 | 7.95E-07   |                   |
| 215  | 1  | Surface | Nickel            | mg/kg | 7.32E+01 | 2.33E-06  | 3.36E-05 | 1.50E-09   |                   |
| 215  | 1  | Surface | Total PAH         | mg/kg | 8.09E-02 | 2.58E-09  | 1.21E-07 | 1.23E-10   |                   |
| 216  | 1  | Surface | Chromium          | mg/kg | 2.38E+01 | 7.58E-07  | 1.36E-05 | 4.89E-10   |                   |
| 216  | 1  | Surface | Total PAH         | mg/kg | 1.49E-01 | 4.76E-09  | 2.23E-07 | 2.28E-10   |                   |
| 216  | 1  | Surface | Uranium-238       | pCi/g | 1.33E+00 | 4.66E+01  |          | 3.00E-02   | 1.28E+00          |
| 217  | 1  | Surface | Chromium          | mg/kg | 8.58E+01 | 2.73E-06  | 4.92E-05 | 1.76E-09   |                   |
| 217  | 1  | Surface | Cobalt            | mg/kg | 1.96E+01 | 6.23E-07  | 1.12E-05 | 4.02E-10   |                   |
| 217  | 1  | Surface | Manganese         | mg/kg | 7.70E+02 | 2.45E-05  | 3.53E-04 | 1.58E-08   |                   |
| 217  | 1  | Surface | Nickel            | mg/kg | 8.54E+01 | 2.72E-06  | 3.92E-05 | 1.76E-09   |                   |
| 217  | 1  | Surface | Silver            | mg/kg | 1.35E+01 | 4.28E-07  | 6.17E-06 | 2.76E-10   |                   |
| 217  | 1  | Surface | Uranium-238       | pCi/g | 1.15E+00 | 4.04E+01  |          | 2.61E-02   | 1.11E+00          |
| 217  | 2  | Surface | Antimony          | mg/kg | 1.70E+00 | 5.42E-08  | 9.75E-07 | 3.49E-11   |                   |
| 217  | 2  | Surface | Arsenic           | mg/kg | 1.12E+01 | 3.56E-07  | 3.84E-06 | 2.29E-10   |                   |
| 217  | 2  | Surface | Chromium          | mg/kg | 1.02E+02 | 3.24E-06  | 5.83E-05 | 2.09E-09   |                   |
| 217  | 2  | Surface | Cobalt            | mg/kg | 1.74E+01 | 5.54E-07  | 9.98E-06 | 3.58E-10   |                   |
| 217  | 2  | Surface | Iron              | mg/kg | 3.09E+04 | 9.85E-04  | 1.77E-02 | 6.36E-07   |                   |
| 217  | 2  | Surface | Manganese         | mg/kg | 8.44E+02 | 2.69E-05  | 3.87E-04 | 1.73E-08   |                   |
| 217  | 2  | Surface | Mercury           | mg/kg | 8.59E+00 | 2.74E-07  | 4.93E-06 | 5.30E-06   |                   |
| 217  | 2  | Surface | Nickel            | mg/kg | 9.74E+01 | 3.10E-06  | 4.47E-05 | 2.00E-09   |                   |
| 217  | 2  | Surface | Silver            | mg/kg | 1.61E+01 | 5.13E-07  | 7.38E-06 | 3.31E-10   |                   |
| 217  | 2  | Surface | Total PAH         | mg/kg | 5.05E-01 | 1.61E-08  | 7.53E-07 | 7.70E-10   |                   |
| 221  | 1  | Surface | Barium            | mg/kg | 2.21E+02 | 7.04E-06  | 1.27E-04 | 4.54E-09   |                   |
| 221  | 1  | Surface | Chromium          | mg/kg | 7.01E+01 | 2.23E-06  | 4.02E-05 | 1.44E-09   |                   |
| 221  | 1  | Surface | Iron              | mg/kg | 1.90E+04 | 6.05E-04  | 1.09E-02 | 3.90E-07   |                   |
| 221  | 1  | Surface | Nickel            | mg/kg | 7.93E+01 | 2.53E-06  | 3.64E-05 | 1.63E-09   |                   |
| 221  | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 1.59E-08  | 8.03E-07 | 1.75E-08   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 221  | 1  | Surface | Total PAH     | mg/kg | 1.02E+00 | 3.26E-08  | 1.52E-06 | 1.56E-09   |                   |
| 221  | 1  | Surface | Uranium       | mg/kg | 1.64E+01 | 5.21E-07  | 9.38E-06 | 3.36E-10   |                   |
| 221  | 1  | Surface | Uranium-238   | pCi/g | 1.93E+00 | 6.76E+01  |          | 4.36E-02   | 1.85E+00          |
| 222  | 1  | Surface | Chromium      | mg/kg | 4.73E+01 | 1.51E-06  | 2.71E-05 | 9.72E-10   |                   |
| 222  | 1  | Surface | Nickel        | mg/kg | 9.19E+01 | 2.93E-06  | 4.22E-05 | 1.89E-09   |                   |
| 222  | 1  | Surface | PCB, Total    | mg/kg | 1.40E+00 | 4.46E-08  | 2.25E-06 | 4.89E-08   |                   |
| 222  | 1  | Surface | Total PAH     | mg/kg | 1.77E-01 | 5.64E-09  | 2.64E-07 | 2.70E-10   |                   |
| 222  | 1  | Surface | Uranium       | mg/kg | 2.80E+01 | 8.91E-07  | 1.60E-05 | 5.75E-10   |                   |
| 222  | 1  | Surface | Uranium-234   | pCi/g | 1.04E+01 | 3.64E+02  |          | 2.35E-01   | 9.97E+00          |
| 222  | 1  | Surface | Uranium-235   | pCi/g | 7.10E-01 | 2.49E+01  |          | 1.60E-02   | 6.81E-01          |
| 222  | 1  | Surface | Uranium-238   | pCi/g | 1.96E+01 | 6.86E+02  |          | 4.43E-01   | 1.88E+01          |
| 227  | 1  | Surface | Beryllium     | mg/kg | 5.52E-01 | 1.76E-08  | 4.43E-08 | 1.13E-11   |                   |
| 227  | 1  | Surface | Chromium      | mg/kg | 4.71E+01 | 1.50E-06  | 2.70E-05 | 9.69E-10   |                   |
| 227  | 1  | Surface | Nickel        | mg/kg | 2.03E+02 | 6.47E-06  | 9.31E-05 | 4.17E-09   |                   |
| 227  | 1  | Surface | PCB, Total    | mg/kg | 4.14E+00 | 1.32E-07  | 6.65E-06 | 1.45E-07   |                   |
| 227  | 1  | Surface | Total PAH     | mg/kg | 3.38E-01 | 1.08E-08  | 5.04E-07 | 5.15E-10   |                   |
| 227  | 1  | Surface | Uranium       | mg/kg | 1.02E+02 | 3.24E-06  | 5.83E-05 | 2.09E-09   |                   |
| 227  | 1  | Surface | Cesium-137    | pCi/g | 1.90E-01 | 6.65E+00  |          | 4.29E-03   | 1.82E-01          |
| 227  | 1  | Surface | Cobalt-60     | pCi/g | 1.53E-02 | 5.36E-01  |          | 3.45E-04   | 1.47E-02          |
| 227  | 1  | Surface | Neptunium-237 | pCi/g | 9.05E-01 | 3.17E+01  |          | 2.04E-02   | 8.68E-01          |
| 227  | 1  | Surface | Technetium-99 | pCi/g | 4.77E+01 | 1.67E+03  |          | 1.08E+00   | 4.58E+01          |
| 227  | 1  | Surface | Uranium-234   | pCi/g | 1.54E+01 | 5.40E+02  |          | 3.49E-01   | 1.48E+01          |
| 227  | 1  | Surface | Uranium-235   | pCi/g | 1.49E+00 | 5.22E+01  |          | 3.36E-02   | 1.43E+00          |
| 227  | 1  | Surface | Uranium-238   | pCi/g | 4.63E+01 | 1.62E+03  |          | 1.05E+00   | 4.44E+01          |
| 227  | 2  | Surface | Beryllium     | mg/kg | 5.32E-01 | 1.69E-08  | 4.27E-08 | 1.09E-11   |                   |
| 227  | 2  | Surface | Chromium      | mg/kg | 5.63E+01 | 1.79E-06  | 3.23E-05 | 1.16E-09   |                   |
| 227  | 2  | Surface | Cobalt        | mg/kg | 8.99E+00 | 2.86E-07  | 5.15E-06 | 1.85E-10   |                   |
| 227  | 2  | Surface | Mercury       | mg/kg | 8.41E+00 | 2.68E-07  | 4.82E-06 | 5.19E-06   |                   |
| 227  | 2  | Surface | Nickel        | mg/kg | 1.25E+02 | 3.98E-06  | 5.73E-05 | 2.57E-09   |                   |
| 227  | 2  | Surface | PCB, Total    | mg/kg | 5.82E+00 | 1.85E-07  | 9.35E-06 | 2.03E-07   |                   |
| 227  | 2  | Surface | Total PAH     | mg/kg | 1.16E-01 | 3.69E-09  | 1.72E-07 | 1.76E-10   |                   |
| 227  | 2  | Surface | Uranium       | mg/kg | 1.51E+01 | 4.79E-07  | 8.63E-06 | 3.09E-10   |                   |
| 227  | 2  | Surface | Cobalt-60     | pCi/g | 1.37E-02 | 4.80E-01  |          | 3.09E-04   | 1.31E-02          |
| 227  | 2  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 5.51E+01  |          | 3.55E-02   | 1.51E+00          |
| 228  | 1  | Surface | Antimony      | mg/kg | 6.30E-01 | 2.01E-08  | 3.61E-07 | 1.29E-11   |                   |
| 228  | 1  | Surface | Cadmium       | mg/kg | 3.90E+00 | 1.24E-07  | 4.47E-08 | 8.02E-11   |                   |
| 228  | 1  | Surface | Chromium      | mg/kg | 1.89E+02 | 6.02E-06  | 1.08E-04 | 3.88E-09   |                   |
| 228  | 1  | Surface | Mercury       | mg/kg | 9.37E+00 | 2.99E-07  | 5.37E-06 | 5.78E-06   |                   |
| 228  | 1  | Surface | Nickel        | mg/kg | 7.92E+01 | 2.52E-06  | 3.63E-05 | 1.63E-09   |                   |
| 228  | 1  | Surface | Silver        | mg/kg | 1.16E+01 | 3.71E-07  | 5.34E-06 | 2.39E-10   |                   |
| 228  | 1  | Surface | Total PAH     | mg/kg | 6.69E-02 | 2.13E-09  | 9.97E-08 | 1.02E-10   |                   |
| 228  | 1  | Surface | Uranium       | mg/kg | 1.51E+01 | 4.82E-07  | 8.68E-06 | 3.11E-10   |                   |
| 228  | 1  | Surface | Neptunium-237 | pCi/g | 8.00E-01 | 2.80E+01  |          | 1.81E-02   | 7.67E-01          |
| 228  | 1  | Surface | Uranium-235   | pCi/g | 1.78E-01 | 6.23E+00  |          | 4.02E-03   | 1.71E-01          |
| 228  | 1  | Surface | Uranium-238   | pCi/g | 3.77E+00 | 1.32E+02  |          | 8.51E-02   | 3.62E+00          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 76   | 1  | Surface | Barium            | mg/kg | 2.69E+02 | 8.57E-06  | 1.54E-04 | 5.53E-09   |                   |
| 76   | 1  | Surface | PCB, Total        | mg/kg | 2.60E-01 | 8.28E-09  | 4.17E-07 | 9.07E-09   |                   |
| 76   | 1  | Surface | Total PAH         | mg/kg | 1.76E+00 | 5.60E-08  | 2.62E-06 | 2.68E-09   |                   |
| 76   | 1  | Surface | Uranium-238       | pCi/g | 1.45E+00 | 5.08E+01  |          | 3.27E-02   | 1.39E+00          |
| 165  | 1  | Surface | Antimony          | mg/kg | 2.20E+00 | 7.01E-08  | 1.26E-06 | 4.52E-11   |                   |
| 165  | 1  | Surface | Arsenic           | mg/kg | 6.35E+01 | 2.02E-06  | 2.18E-05 | 1.31E-09   |                   |
| 165  | 1  | Surface | Barium            | mg/kg | 5.84E+02 | 1.86E-05  | 3.35E-04 | 1.20E-08   |                   |
| 165  | 1  | Surface | Beryllium         | mg/kg | 6.82E-01 | 2.17E-08  | 5.48E-08 | 1.40E-11   |                   |
| 165  | 1  | Surface | Chromium          | mg/kg | 3.74E+01 | 1.19E-06  | 2.14E-05 | 7.68E-10   |                   |
| 165  | 1  | Surface | Mercury           | mg/kg | 3.78E-01 | 1.20E-08  | 2.17E-07 | 2.33E-07   |                   |
| 165  | 1  | Surface | Naphthalene       | mg/kg | 1.61E+00 | 5.13E-08  | 4.62E-06 | 1.11E-06   |                   |
| 165  | 1  | Surface | Nickel            | mg/kg | 3.47E+01 | 1.11E-06  | 1.59E-05 | 7.13E-10   |                   |
| 165  | 1  | Surface | PCB, Total        | mg/kg | 8.27E+00 | 2.63E-07  | 1.33E-05 | 2.89E-07   |                   |
| 165  | 1  | Surface | Silver            | mg/kg | 3.09E+01 | 9.85E-07  | 1.42E-05 | 6.36E-10   |                   |
| 165  | 1  | Surface | Total PAH         | mg/kg | 1.87E+00 | 5.95E-08  | 2.79E-06 | 2.85E-09   |                   |
| 165  | 1  | Surface | Uranium           | mg/kg | 1.08E+02 | 3.42E-06  | 6.16E-05 | 2.21E-09   |                   |
| 165  | 1  | Surface | Cesium-137        | pCi/g | 3.47E+00 | 1.21E+02  |          | 7.84E-02   | 3.33E+00          |
| 165  | 1  | Surface | Neptunium-237     | pCi/g | 4.26E-01 | 1.49E+01  |          | 9.62E-03   | 4.08E-01          |
| 165  | 1  | Surface | Plutonium-239/240 | pCi/g | 2.81E+00 | 9.82E+01  |          | 6.33E-02   | 2.69E+00          |
| 165  | 1  | Surface | Thorium-230       | pCi/g | 6.02E+00 | 2.11E+02  |          | 1.36E-01   | 5.77E+00          |
| 165  | 1  | Surface | Uranium-234       | pCi/g | 5.76E+01 | 2.01E+03  |          | 1.30E+00   | 5.52E+01          |
| 165  | 1  | Surface | Uranium-235       | pCi/g | 2.05E+00 | 7.16E+01  |          | 4.62E-02   | 1.96E+00          |
| 165  | 1  | Surface | Uranium-238       | pCi/g | 6.41E+01 | 2.24E+03  |          | 1.45E+00   | 6.15E+01          |
| 170  | 1  | Surface | Neptunium-237     | pCi/g | 1.15E-01 | 4.03E+00  |          | 2.60E-03   | 1.10E-01          |
| 170  | 1  | Surface | Uranium-238       | pCi/g | 1.53E+00 | 5.36E+01  |          | 3.45E-02   | 1.47E+00          |
| 158  | 1  | Surface | Antimony          | mg/kg | 5.23E-01 | 1.67E-08  | 3.00E-07 | 1.07E-11   |                   |
| 158  | 1  | Surface | Arsenic           | mg/kg | 1.01E+01 | 3.22E-07  | 3.48E-06 | 2.08E-10   |                   |
| 158  | 1  | Surface | Barium            | mg/kg | 2.19E+02 | 6.97E-06  | 1.25E-04 | 4.49E-09   |                   |
| 158  | 1  | Surface | Chromium          | mg/kg | 6.07E+01 | 1.94E-06  | 3.48E-05 | 1.25E-09   |                   |
| 158  | 1  | Surface | Cobalt            | mg/kg | 1.62E+01 | 5.17E-07  | 9.30E-06 | 3.33E-10   |                   |
| 158  | 1  | Surface | Manganese         | mg/kg | 9.91E+02 | 3.16E-05  | 4.54E-04 | 2.04E-08   |                   |
| 158  | 1  | Surface | Mercury           | mg/kg | 1.05E+01 | 3.33E-07  | 6.00E-06 | 6.45E-06   |                   |
| 158  | 1  | Surface | Nickel            | mg/kg | 7.28E+01 | 2.32E-06  | 3.34E-05 | 1.50E-09   |                   |
| 158  | 1  | Surface | Thallium          | mg/kg | 3.12E-01 | 9.94E-09  | 1.79E-07 | 6.41E-12   |                   |
| 158  | 1  | Surface | Total PAH         | mg/kg | 3.69E-01 | 1.18E-08  | 5.50E-07 | 5.63E-10   |                   |
| 158  | 1  | Surface | Uranium           | mg/kg | 2.03E+01 | 6.47E-07  | 1.16E-05 | 4.17E-10   |                   |
| 158  | 1  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 5.71E+00  |          | 3.68E-03   | 1.56E-01          |
| 158  | 1  | Surface | Uranium-238       | pCi/g | 3.79E+00 | 1.33E+02  |          | 8.56E-02   | 3.63E+00          |
| 169  | 1  | Surface | Aluminum          | mg/kg | 1.42E+04 | 4.52E-04  | 8.14E-03 | 2.92E-07   |                   |
| 169  | 1  | Surface | Antimony          | mg/kg | 1.30E+00 | 4.14E-08  | 7.45E-07 | 2.67E-11   |                   |
| 169  | 1  | Surface | Arsenic           | mg/kg | 2.03E+01 | 6.47E-07  | 6.98E-06 | 4.17E-10   |                   |
| 169  | 1  | Surface | Beryllium         | mg/kg | 8.00E-01 | 2.55E-08  | 6.42E-08 | 1.64E-11   |                   |
| 169  | 1  | Surface | Chromium          | mg/kg | 2.15E+02 | 6.85E-06  | 1.23E-04 | 4.42E-09   |                   |
| 169  | 1  | Surface | Copper            | mg/kg | 3.74E+02 | 1.19E-05  | 2.15E-04 | 7.69E-09   |                   |
| 169  | 1  | Surface | Iron              | mg/kg | 4.16E+04 | 1.32E-03  | 2.38E-02 | 8.54E-07   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC        | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------|-------|----------|-----------|----------|------------|-------------------|
| 169  | 1  | Surface | Mercury     | mg/kg | 7.87E+00 | 2.51E-07  | 4.51E-06 | 4.85E-06   |                   |
| 169  | 1  | Surface | Nickel      | mg/kg | 5.49E+02 | 1.75E-05  | 2.52E-04 | 1.13E-08   |                   |
| 169  | 1  | Surface | PCB, Total  | mg/kg | 1.00E+01 | 3.19E-07  | 1.61E-05 | 3.49E-07   |                   |
| 169  | 1  | Surface | Thallium    | mg/kg | 4.60E-01 | 1.47E-08  | 2.64E-07 | 9.45E-12   |                   |
| 169  | 1  | Surface | Total PAH   | mg/kg | 4.59E+00 | 1.46E-07  | 6.84E-06 | 7.00E-09   |                   |
| 169  | 1  | Surface | Uranium     | mg/kg | 5.03E+01 | 1.60E-06  | 2.88E-05 | 1.03E-09   |                   |
| 169  | 1  | Surface | Uranium-234 | pCi/g | 6.55E+00 | 2.29E+02  |          | 1.48E-01   | 6.28E+00          |
| 169  | 1  | Surface | Uranium-235 | pCi/g | 4.60E-01 | 1.61E+01  |          | 1.04E-02   | 4.41E-01          |
| 169  | 1  | Surface | Uranium-238 | pCi/g | 8.12E+00 | 2.84E+02  |          | 1.83E-01   | 7.79E+00          |
| 19   | 1  | Surface | Beryllium   | mg/kg | 1.10E+00 | 3.50E-08  | 8.83E-08 | 2.26E-11   |                   |
| 19   | 1  | Surface | Cadmium     | mg/kg | 1.20E+00 | 3.82E-08  | 1.38E-08 | 2.47E-11   |                   |
| 19   | 1  | Surface | Thallium    | mg/kg | 9.80E-01 | 3.12E-08  | 5.62E-07 | 2.01E-11   |                   |
| 19   | 1  | Surface | Total PAH   | mg/kg | 5.23E+00 | 1.66E-07  | 7.79E-06 | 7.97E-09   |                   |
| 138  | 1  | Surface | Antimony    | mg/kg | 5.39E+00 | 1.72E-07  | 3.09E-06 | 1.11E-10   |                   |
| 138  | 1  | Surface | Arsenic     | mg/kg | 1.06E+01 | 3.38E-07  | 3.65E-06 | 2.18E-10   |                   |
| 138  | 1  | Surface | Cadmium     | mg/kg | 5.42E+00 | 1.73E-07  | 6.22E-08 | 1.11E-10   |                   |
| 138  | 1  | Surface | Chromium    | mg/kg | 5.39E+01 | 1.72E-06  | 3.09E-05 | 1.11E-09   |                   |
| 138  | 1  | Surface | Mercury     | mg/kg | 1.30E+01 | 4.14E-07  | 7.45E-06 | 8.01E-06   |                   |
| 138  | 1  | Surface | Nickel      | mg/kg | 7.04E+01 | 2.24E-06  | 3.23E-05 | 1.45E-09   |                   |
| 138  | 1  | Surface | PCB, Total  | mg/kg | 5.00E-01 | 1.59E-08  | 8.03E-07 | 1.75E-08   |                   |
| 138  | 1  | Surface | Silver      | mg/kg | 1.01E+01 | 3.21E-07  | 4.63E-06 | 2.07E-10   |                   |
| 138  | 1  | Surface | Total PAH   | mg/kg | 9.74E-02 | 3.10E-09  | 1.45E-07 | 1.49E-10   |                   |
| 138  | 2  | Surface | Nickel      | mg/kg | 7.99E+01 | 2.54E-06  | 3.66E-05 | 1.64E-09   |                   |
| 138  | 2  | Surface | PCB, Total  | mg/kg | 9.20E-02 | 2.93E-09  | 1.48E-07 | 3.21E-09   |                   |
| 138  | 2  | Surface | Silver      | mg/kg | 1.04E+01 | 3.33E-07  | 4.79E-06 | 2.15E-10   |                   |
| 138  | 2  | Surface | Total PAH   | mg/kg | 3.84E-02 | 1.22E-09  | 5.73E-08 | 5.86E-11   |                   |
| 180  | 1  | Surface | Antimony    | mg/kg | 5.80E-01 | 1.85E-08  | 3.33E-07 | 1.19E-11   |                   |
| 180  | 1  | Surface | Arsenic     | mg/kg | 7.48E+01 | 2.38E-06  | 2.57E-05 | 1.54E-09   |                   |
| 180  | 1  | Surface | Chromium    | mg/kg | 5.54E+01 | 1.77E-06  | 3.18E-05 | 1.14E-09   |                   |
| 180  | 1  | Surface | Mercury     | mg/kg | 8.28E+00 | 2.64E-07  | 4.75E-06 | 5.11E-06   |                   |
| 180  | 1  | Surface | Nickel      | mg/kg | 8.77E+01 | 2.79E-06  | 4.02E-05 | 1.80E-09   |                   |
| 180  | 2  | Surface | Antimony    | mg/kg | 4.58E-01 | 1.46E-08  | 2.63E-07 | 9.41E-12   |                   |
| 180  | 2  | Surface | Arsenic     | mg/kg | 1.27E+01 | 4.03E-07  | 4.35E-06 | 2.60E-10   |                   |
| 180  | 2  | Surface | Chromium    | mg/kg | 4.46E+01 | 1.42E-06  | 2.56E-05 | 9.17E-10   |                   |
| 180  | 2  | Surface | Nickel      | mg/kg | 8.42E+01 | 2.68E-06  | 3.86E-05 | 1.73E-09   |                   |
| 180  | 2  | Surface | Total PAH   | mg/kg | 9.19E-02 | 2.93E-09  | 1.37E-07 | 1.40E-10   |                   |
| 180  | 3  | Surface | Arsenic     | mg/kg | 1.34E+01 | 4.25E-07  | 4.59E-06 | 2.74E-10   |                   |
| 180  | 3  | Surface | Chromium    | mg/kg | 4.69E+01 | 1.50E-06  | 2.69E-05 | 9.65E-10   |                   |
| 180  | 3  | Surface | Nickel      | mg/kg | 6.77E+01 | 2.16E-06  | 3.11E-05 | 1.39E-09   |                   |
| 180  | 3  | Surface | Silver      | mg/kg | 1.14E+01 | 3.63E-07  | 5.23E-06 | 2.34E-10   |                   |
| 180  | 4  | Surface | Arsenic     | mg/kg | 1.15E+01 | 3.67E-07  | 3.97E-06 | 2.37E-10   |                   |
| 180  | 4  | Surface | Barium      | mg/kg | 2.13E+02 | 6.79E-06  | 1.22E-04 | 4.38E-09   |                   |
| 180  | 4  | Surface | Beryllium   | mg/kg | 1.60E+00 | 5.10E-08  | 1.28E-07 | 3.29E-11   |                   |
| 180  | 4  | Surface | Chromium    | mg/kg | 6.00E+01 | 1.91E-06  | 3.44E-05 | 1.23E-09   |                   |
| 180  | 4  | Surface | Iron        | mg/kg | 1.54E+04 | 4.90E-04  | 8.81E-03 | 3.16E-07   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC      | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-----------|-------|----------|-----------|----------|------------|-------------------|
| 180  | 4  | Surface | Manganese | mg/kg | 7.09E+02 | 2.26E-05  | 3.25E-04 | 1.46E-08   |                   |
| 180  | 4  | Surface | Nickel    | mg/kg | 6.46E+01 | 2.06E-06  | 2.96E-05 | 1.33E-09   |                   |
| 180  | 4  | Surface | Silver    | mg/kg | 9.68E+00 | 3.08E-07  | 4.44E-06 | 1.99E-10   |                   |
| 180  | 4  | Surface | Total PAH | mg/kg | 2.15E-02 | 6.85E-10  | 3.21E-08 | 3.28E-11   |                   |
| 180  | 4  | Surface | Vanadium  | mg/kg | 4.85E+01 | 1.55E-06  | 1.45E-05 | 9.97E-10   |                   |
| 181  | 1  | Surface | Chromium  | mg/kg | 2.29E+01 | 7.28E-07  | 1.31E-05 | 4.70E-10   |                   |
| 181  | 1  | Surface | Thallium  | mg/kg | 3.50E+00 | 1.12E-07  | 2.01E-06 | 7.19E-11   |                   |
| 181  | 1  | Surface | Total PAH | mg/kg | 3.43E-02 | 1.09E-09  | 5.11E-08 | 5.23E-11   |                   |
| 195  | 1  | Surface | Chromium  | mg/kg | 6.33E+01 | 2.02E-06  | 3.63E-05 | 1.30E-09   |                   |
| 195  | 1  | Surface | Nickel    | mg/kg | 7.02E+01 | 2.24E-06  | 3.22E-05 | 1.44E-09   |                   |
| 195  | 1  | Surface | Silver    | mg/kg | 9.37E+00 | 2.99E-07  | 4.30E-06 | 1.93E-10   |                   |
| 195  | 2  | Surface | Chromium  | mg/kg | 4.52E+01 | 1.44E-06  | 2.59E-05 | 9.29E-10   |                   |
| 195  | 2  | Surface | Silver    | mg/kg | 9.48E+00 | 3.02E-07  | 4.35E-06 | 1.95E-10   |                   |
| 195  | 2  | Surface | Total PAH | mg/kg | 2.68E-02 | 8.54E-10  | 4.00E-08 | 4.09E-11   |                   |
| 195  | 3  | Surface | Chromium  | mg/kg | 5.03E+01 | 1.60E-06  | 2.88E-05 | 1.03E-09   |                   |
| 195  | 3  | Surface | Nickel    | mg/kg | 5.22E+01 | 1.66E-06  | 2.39E-05 | 1.07E-09   |                   |
| 195  | 3  | Surface | Total PAH | mg/kg | 4.06E-02 | 1.29E-09  | 6.05E-08 | 6.19E-11   |                   |
| 195  | 4  | Surface | Chromium  | mg/kg | 5.29E+01 | 1.69E-06  | 3.03E-05 | 1.09E-09   |                   |
| 195  | 4  | Surface | Nickel    | mg/kg | 6.23E+01 | 1.98E-06  | 2.86E-05 | 1.28E-09   |                   |
| 195  | 5  | Surface | Chromium  | mg/kg | 5.74E+01 | 1.83E-06  | 3.29E-05 | 1.18E-09   |                   |
| 195  | 5  | Surface | Nickel    | mg/kg | 8.11E+01 | 2.58E-06  | 3.72E-05 | 1.67E-09   |                   |
| 195  | 5  | Surface | Total PAH | mg/kg | 2.40E-02 | 7.65E-10  | 3.58E-08 | 3.66E-11   |                   |
| 195  | 6  | Surface | Chromium  | mg/kg | 4.45E+01 | 1.42E-06  | 2.55E-05 | 9.15E-10   |                   |
| 195  | 6  | Surface | Nickel    | mg/kg | 8.71E+01 | 2.78E-06  | 4.00E-05 | 1.79E-09   |                   |
| 195  | 6  | Surface | Total PAH | mg/kg | 2.48E-01 | 7.89E-09  | 3.69E-07 | 3.78E-10   |                   |
| 195  | 7  | Surface | Chromium  | mg/kg | 4.93E+01 | 1.57E-06  | 2.82E-05 | 1.01E-09   |                   |
| 195  | 7  | Surface | Silver    | mg/kg | 8.06E+00 | 2.57E-07  | 3.70E-06 | 1.66E-10   |                   |
| 195  | 8  | Surface | Arsenic   | mg/kg | 1.16E+01 | 3.68E-07  | 3.98E-06 | 2.38E-10   |                   |
| 195  | 8  | Surface | Beryllium | mg/kg | 7.40E-01 | 2.36E-08  | 5.94E-08 | 1.52E-11   |                   |
| 195  | 8  | Surface | Chromium  | mg/kg | 6.79E+01 | 2.16E-06  | 3.90E-05 | 1.40E-09   |                   |
| 195  | 8  | Surface | Cobalt    | mg/kg | 1.82E+01 | 5.80E-07  | 1.04E-05 | 3.74E-10   |                   |
| 195  | 8  | Surface | Nickel    | mg/kg | 7.01E+01 | 2.23E-06  | 3.22E-05 | 1.44E-09   |                   |
| 195  | 8  | Surface | Total PAH | mg/kg | 2.16E-01 | 6.87E-09  | 3.21E-07 | 3.29E-10   |                   |
| 195  | 8  | Surface | Vanadium  | mg/kg | 4.04E+01 | 1.29E-06  | 1.20E-05 | 8.30E-10   |                   |
| 195  | 9  | Surface | Chromium  | mg/kg | 6.08E+01 | 1.94E-06  | 3.49E-05 | 1.25E-09   |                   |
| 195  | 9  | Surface | Nickel    | mg/kg | 7.93E+01 | 2.53E-06  | 3.64E-05 | 1.63E-09   |                   |
| 195  | 10 | Surface | Chromium  | mg/kg | 4.51E+01 | 1.44E-06  | 2.58E-05 | 9.26E-10   |                   |
| 195  | 10 | Surface | Nickel    | mg/kg | 7.40E+01 | 2.36E-06  | 3.40E-05 | 1.52E-09   |                   |
| 195  | 10 | Surface | Silver    | mg/kg | 1.31E+01 | 4.18E-07  | 6.01E-06 | 2.69E-10   |                   |
| 195  | 11 | Surface | Aluminum  | mg/kg | 2.81E+04 | 8.95E-04  | 1.61E-02 | 5.78E-07   |                   |
| 195  | 11 | Surface | Arsenic   | mg/kg | 1.35E+01 | 4.29E-07  | 4.63E-06 | 2.77E-10   |                   |
| 195  | 11 | Surface | Barium    | mg/kg | 4.53E+02 | 1.44E-05  | 2.60E-04 | 9.31E-09   |                   |
| 195  | 11 | Surface | Chromium  | mg/kg | 5.05E+01 | 1.61E-06  | 2.90E-05 | 1.04E-09   |                   |
| 195  | 11 | Surface | Cobalt    | mg/kg | 2.77E+01 | 8.82E-07  | 1.59E-05 | 5.69E-10   |                   |
| 195  | 11 | Surface | Iron      | mg/kg | 1.97E+04 | 6.28E-04  | 1.13E-02 | 4.05E-07   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 195  | 11 | Surface | Nickel        | mg/kg | 6.77E+01 | 2.16E-06  | 3.11E-05 | 1.39E-09   |                   |
| 195  | 11 | Surface | Thallium      | mg/kg | 6.60E-01 | 2.10E-08  | 3.78E-07 | 1.36E-11   |                   |
| 195  | 11 | Surface | Vanadium      | mg/kg | 7.97E+01 | 2.54E-06  | 2.38E-05 | 1.64E-09   |                   |
| 195  | 12 | Surface | Beryllium     | mg/kg | 7.50E-01 | 2.39E-08  | 6.02E-08 | 1.54E-11   |                   |
| 195  | 12 | Surface | Chromium      | mg/kg | 7.04E+01 | 2.24E-06  | 4.04E-05 | 1.45E-09   |                   |
| 195  | 12 | Surface | Nickel        | mg/kg | 6.78E+01 | 2.16E-06  | 3.11E-05 | 1.39E-09   |                   |
| 195  | 13 | Surface | Chromium      | mg/kg | 6.55E+01 | 2.09E-06  | 3.76E-05 | 1.35E-09   |                   |
| 195  | 13 | Surface | Nickel        | mg/kg | 6.91E+01 | 2.20E-06  | 3.17E-05 | 1.42E-09   |                   |
| 195  | 14 | Surface | Chromium      | mg/kg | 5.94E+01 | 1.89E-06  | 3.41E-05 | 1.22E-09   |                   |
| 195  | 14 | Surface | Nickel        | mg/kg | 7.04E+01 | 2.24E-06  | 3.23E-05 | 1.45E-09   |                   |
| 195  | 15 | Surface | Chromium      | mg/kg | 4.82E+01 | 1.53E-06  | 2.76E-05 | 9.90E-10   |                   |
| 195  | 16 | Surface | Chromium      | mg/kg | 4.45E+01 | 1.42E-06  | 2.55E-05 | 9.14E-10   |                   |
| 195  | 16 | Surface | Nickel        | mg/kg | 8.16E+01 | 2.60E-06  | 3.74E-05 | 1.68E-09   |                   |
| 195  | 17 | Surface | Chromium      | mg/kg | 8.22E+01 | 2.62E-06  | 4.71E-05 | 1.69E-09   |                   |
| 195  | 17 | Surface | Mercury       | mg/kg | 4.17E-01 | 1.33E-08  | 2.39E-07 | 2.57E-07   |                   |
| 195  | 17 | Surface | Nickel        | mg/kg | 5.93E+01 | 1.89E-06  | 2.72E-05 | 1.22E-09   |                   |
| 195  | 17 | Surface | PCB, Total    | mg/kg | 7.40E-01 | 2.36E-08  | 1.19E-06 | 2.58E-08   |                   |
| 195  | 17 | Surface | Silver        | mg/kg | 1.01E+01 | 3.23E-07  | 4.65E-06 | 2.08E-10   |                   |
| 195  | 17 | Surface | Thallium      | mg/kg | 5.40E-01 | 1.72E-08  | 3.10E-07 | 1.11E-11   |                   |
| 195  | 17 | Surface | Total PAH     | mg/kg | 3.16E-01 | 1.01E-08  | 4.71E-07 | 4.82E-10   |                   |
| 195  | 17 | Surface | Uranium-235   | pCi/g | 1.32E-01 | 4.62E+00  |          | 2.98E-03   | 1.27E-01          |
| 195  | 17 | Surface | Uranium-238   | pCi/g | 2.48E+00 | 8.68E+01  |          | 5.60E-02   | 2.38E+00          |
| 486  | 1  | Surface | Cesium-137    | pCi/g | 1.71E+00 | 5.99E+01  |          | 3.86E-02   | 1.64E+00          |
| 487  | 1  | Surface | Cesium-137    | pCi/g | 1.38E+00 | 4.83E+01  |          | 3.12E-02   | 1.32E+00          |
| 492  | 1  | Surface | Arsenic       | mg/kg | 1.47E+01 | 4.68E-07  | 5.06E-06 | 3.02E-10   |                   |
| 492  | 1  | Surface | Beryllium     | mg/kg | 1.04E+01 | 3.31E-07  | 8.35E-07 | 2.14E-10   |                   |
| 492  | 1  | Surface | Cadmium       | mg/kg | 3.14E+00 | 1.00E-07  | 3.60E-08 | 6.45E-11   |                   |
| 492  | 1  | Surface | Chromium      | mg/kg | 1.04E+03 | 3.31E-05  | 5.96E-04 | 2.14E-08   |                   |
| 492  | 1  | Surface | PCB, Total    | mg/kg | 4.41E+01 | 1.40E-06  | 7.08E-05 | 1.54E-06   |                   |
| 492  | 1  | Surface | Uranium       | mg/kg | 1.77E+03 | 5.64E-05  | 1.01E-03 | 3.64E-08   |                   |
| 492  | 1  | Surface | Vanadium      | mg/kg | 4.32E+01 | 1.38E-06  | 1.29E-05 | 8.88E-10   |                   |
| 492  | 1  | Surface | Cobalt-60     | pCi/g | 9.63E-03 | 3.37E-01  |          | 2.17E-04   | 9.23E-03          |
| 492  | 1  | Surface | Neptunium-237 | pCi/g | 2.09E-01 | 7.32E+00  |          | 4.72E-03   | 2.00E-01          |
| 492  | 1  | Surface | Uranium-234   | pCi/g | 5.39E+01 | 1.89E+03  |          | 1.22E+00   | 5.17E+01          |
| 492  | 1  | Surface | Uranium-235   | pCi/g | 5.72E+00 | 2.00E+02  |          | 1.29E-01   | 5.48E+00          |
| 492  | 1  | Surface | Uranium-238   | pCi/g | 3.83E+02 | 1.34E+04  |          | 8.65E+00   | 3.67E+02          |
| 493  | 1  | Surface | Aluminum      | mg/kg | 1.44E+04 | 4.59E-04  | 8.26E-03 | 2.96E-07   |                   |
| 493  | 1  | Surface | Barium        | mg/kg | 4.04E+02 | 1.29E-05  | 2.32E-04 | 8.30E-09   |                   |
| 493  | 1  | Surface | Beryllium     | mg/kg | 9.91E-01 | 3.16E-08  | 7.96E-08 | 2.04E-11   |                   |
| 493  | 1  | Surface | Chromium      | mg/kg | 6.61E+01 | 2.11E-06  | 3.79E-05 | 1.36E-09   |                   |
| 493  | 1  | Surface | Cobalt        | mg/kg | 3.79E+01 | 1.21E-06  | 2.17E-05 | 7.79E-10   |                   |
| 493  | 1  | Surface | Manganese     | mg/kg | 3.55E+03 | 1.13E-04  | 1.63E-03 | 7.30E-08   |                   |
| 493  | 1  | Surface | Mercury       | mg/kg | 2.60E-01 | 8.28E-09  | 1.49E-07 | 1.60E-07   |                   |
| 493  | 1  | Surface | Nickel        | mg/kg | 2.13E+02 | 6.79E-06  | 9.77E-05 | 4.38E-09   |                   |
| 493  | 1  | Surface | PCB, Total    | mg/kg | 2.60E-01 | 8.28E-09  | 4.17E-07 | 9.07E-09   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 493  | 1  | Surface | Total PAH     | mg/kg | 5.00E-01 | 1.59E-08  | 7.45E-07 | 7.63E-10   |                   |
| 493  | 1  | Surface | Vanadium      | mg/kg | 4.05E+01 | 1.29E-06  | 1.21E-05 | 8.32E-10   |                   |
| 493  | 1  | Surface | Cobalt-60     | pCi/g | 1.36E-02 | 4.76E-01  |          | 3.07E-04   | 1.30E-02          |
| 493  | 1  | Surface | Neptunium-237 | pCi/g | 1.22E-01 | 4.27E+00  |          | 2.75E-03   | 1.17E-01          |
| 493  | 1  | Surface | Uranium-235   | pCi/g | 1.65E-01 | 5.78E+00  |          | 3.73E-03   | 1.58E-01          |
| 493  | 1  | Surface | Uranium-238   | pCi/g | 5.50E+00 | 1.93E+02  |          | 1.24E-01   | 5.27E+00          |
| 517  | 1  | Surface | Beryllium     | mg/kg | 7.39E-01 | 2.35E-08  | 5.93E-08 | 1.52E-11   |                   |
| 517  | 1  | Surface | Chromium      | mg/kg | 4.91E+01 | 1.56E-06  | 2.82E-05 | 1.01E-09   |                   |
| 517  | 1  | Surface | Nickel        | mg/kg | 1.72E+02 | 5.48E-06  | 7.89E-05 | 3.54E-09   |                   |
| 517  | 1  | Surface | PCB, Total    | mg/kg | 5.00E-01 | 1.59E-08  | 8.03E-07 | 1.75E-08   |                   |
| 517  | 1  | Surface | Cobalt-60     | pCi/g | 6.39E-03 | 2.24E-01  |          | 1.44E-04   | 6.13E-03          |
| 517  | 1  | Surface | Neptunium-237 | pCi/g | 1.07E+00 | 3.75E+01  |          | 2.42E-02   | 1.03E+00          |
| 517  | 1  | Surface | Uranium-235   | pCi/g | 1.60E-01 | 5.60E+00  |          | 3.61E-03   | 1.53E-01          |
| 517  | 1  | Surface | Uranium-238   | pCi/g | 3.89E+00 | 1.36E+02  |          | 8.78E-02   | 3.73E+00          |
| 541  | 1  | Surface | Aluminum      | mg/kg | 1.43E+04 | 4.55E-04  | 8.19E-03 | 2.94E-07   |                   |
| 541  | 1  | Surface | Barium        | mg/kg | 1.28E+02 | 4.08E-06  | 7.34E-05 | 2.63E-09   |                   |
| 541  | 1  | Surface | Beryllium     | mg/kg | 6.98E-01 | 2.22E-08  | 5.60E-08 | 1.43E-11   |                   |
| 541  | 1  | Surface | Cadmium       | mg/kg | 1.68E+00 | 5.36E-08  | 1.93E-08 | 3.46E-11   |                   |
| 541  | 1  | Surface | Chromium      | mg/kg | 8.24E+02 | 2.63E-05  | 4.73E-04 | 1.69E-08   |                   |
| 541  | 1  | Surface | Iron          | mg/kg | 1.60E+04 | 5.09E-04  | 9.16E-03 | 3.28E-07   |                   |
| 541  | 1  | Surface | Mercury       | mg/kg | 9.81E-02 | 3.13E-09  | 5.63E-08 | 6.05E-08   |                   |
| 541  | 1  | Surface | Naphthalene   | mg/kg | 6.55E-01 | 2.09E-08  | 1.88E-06 | 4.52E-07   |                   |
| 541  | 1  | Surface | Nickel        | mg/kg | 1.52E+01 | 4.86E-07  | 6.99E-06 | 3.13E-10   |                   |
| 541  | 1  | Surface | PCB, Total    | mg/kg | 6.06E+01 | 1.93E-06  | 9.73E-05 | 2.12E-06   |                   |
| 541  | 1  | Surface | Total PAH     | mg/kg | 2.33E+00 | 7.42E-08  | 3.47E-06 | 3.55E-09   |                   |
| 541  | 1  | Surface | Uranium       | mg/kg | 6.38E+03 | 2.03E-04  | 3.66E-03 | 1.31E-07   |                   |
| 541  | 1  | Surface | Vanadium      | mg/kg | 3.04E+01 | 9.70E-07  | 9.08E-06 | 6.26E-10   |                   |
| 541  | 1  | Surface | Americium-241 | pCi/g | 7.53E+00 | 2.64E+02  |          | 1.70E-01   | 7.22E+00          |
| 541  | 1  | Surface | Cesium-137    | pCi/g | 9.58E-01 | 3.35E+01  |          | 2.16E-02   | 9.19E-01          |
| 541  | 1  | Surface | Cobalt-60     | pCi/g | 1.01E-02 | 3.54E-01  |          | 2.28E-04   | 9.68E-03          |
| 541  | 1  | Surface | Neptunium-237 | pCi/g | 5.52E-02 | 1.93E+00  |          | 1.25E-03   | 5.29E-02          |
| 541  | 1  | Surface | Uranium-234   | pCi/g | 1.43E+02 | 5.00E+03  |          | 3.23E+00   | 1.37E+02          |
| 541  | 1  | Surface | Uranium-235   | pCi/g | 1.76E+01 | 6.15E+02  |          | 3.97E-01   | 1.68E+01          |
| 541  | 1  | Surface | Uranium-238   | pCi/g | 1.00E+03 | 3.50E+04  |          | 2.26E+01   | 9.60E+02          |
| 561  | 1  | Surface | Antimony      | mg/kg | 9.36E-01 | 2.98E-08  | 5.37E-07 | 1.92E-11   |                   |
| 561  | 1  | Surface | Arsenic       | mg/kg | 1.66E+01 | 5.27E-07  | 5.69E-06 | 3.40E-10   |                   |
| 561  | 1  | Surface | Barium        | mg/kg | 1.40E+02 | 4.47E-06  | 8.04E-05 | 2.88E-09   |                   |
| 561  | 1  | Surface | Beryllium     | mg/kg | 6.85E-01 | 2.18E-08  | 5.50E-08 | 1.41E-11   |                   |
| 561  | 1  | Surface | Chromium      | mg/kg | 8.58E+01 | 2.73E-06  | 4.92E-05 | 1.76E-09   |                   |
| 561  | 1  | Surface | Cobalt        | mg/kg | 1.07E+01 | 3.41E-07  | 6.13E-06 | 2.20E-10   |                   |
| 561  | 1  | Surface | Iron          | mg/kg | 2.05E+04 | 6.52E-04  | 1.17E-02 | 4.21E-07   |                   |
| 561  | 1  | Surface | Manganese     | mg/kg | 1.61E+03 | 5.13E-05  | 7.38E-04 | 3.31E-08   |                   |
| 561  | 1  | Surface | PCB, Total    | mg/kg | 1.04E+00 | 3.32E-08  | 1.67E-06 | 3.64E-08   |                   |
| 561  | 1  | Surface | Thallium      | mg/kg | 3.33E-01 | 1.06E-08  | 1.91E-07 | 6.84E-12   |                   |
| 561  | 1  | Surface | Total PAH     | mg/kg | 3.94E-01 | 1.26E-08  | 5.87E-07 | 6.01E-10   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration



**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 561  | 1  | Surface | Uranium           | mg/kg | 2.65E+02 | 8.44E-06  | 1.52E-04 | 5.44E-09   |                   |
| 561  | 1  | Surface | Vanadium          | mg/kg | 3.76E+01 | 1.20E-06  | 1.12E-05 | 7.74E-10   |                   |
| 561  | 1  | Surface | Cobalt-60         | pCi/g | 7.06E-02 | 2.47E+00  |          | 1.59E-03   | 6.77E-02          |
| 561  | 1  | Surface | Neptunium-237     | pCi/g | 2.71E-02 | 9.49E-01  |          | 6.12E-04   | 2.60E-02          |
| 561  | 1  | Surface | Uranium-234       | pCi/g | 7.84E+00 | 2.74E+02  |          | 1.77E-01   | 7.52E+00          |
| 561  | 1  | Surface | Uranium-235       | pCi/g | 1.37E+00 | 4.78E+01  |          | 3.08E-02   | 1.31E+00          |
| 561  | 1  | Surface | Uranium-238       | pCi/g | 1.07E+02 | 3.73E+03  |          | 2.40E+00   | 1.02E+02          |
| 561  | 2  | Surface | Antimony          | mg/kg | 5.33E+00 | 1.70E-07  | 3.06E-06 | 1.10E-10   |                   |
| 561  | 2  | Surface | Arsenic           | mg/kg | 1.30E+01 | 4.14E-07  | 4.48E-06 | 2.67E-10   |                   |
| 561  | 2  | Surface | Beryllium         | mg/kg | 6.34E-01 | 2.02E-08  | 5.09E-08 | 1.30E-11   |                   |
| 561  | 2  | Surface | Cadmium           | mg/kg | 4.13E-01 | 1.32E-08  | 4.74E-09 | 8.49E-12   |                   |
| 561  | 2  | Surface | Chromium          | mg/kg | 2.88E+02 | 9.18E-06  | 1.65E-04 | 5.92E-09   |                   |
| 561  | 2  | Surface | Cobalt            | mg/kg | 1.14E+01 | 3.63E-07  | 6.54E-06 | 2.34E-10   |                   |
| 561  | 2  | Surface | Manganese         | mg/kg | 1.12E+03 | 3.55E-05  | 5.12E-04 | 2.29E-08   |                   |
| 561  | 2  | Surface | PCB, Total        | mg/kg | 1.64E+01 | 5.23E-07  | 2.64E-05 | 5.73E-07   |                   |
| 561  | 2  | Surface | Thallium          | mg/kg | 4.09E-01 | 1.30E-08  | 2.35E-07 | 8.41E-12   |                   |
| 561  | 2  | Surface | Total PAH         | mg/kg | 2.43E+00 | 7.74E-08  | 3.62E-06 | 3.71E-09   |                   |
| 561  | 2  | Surface | Uranium           | mg/kg | 1.38E+03 | 4.41E-05  | 7.93E-04 | 2.84E-08   |                   |
| 561  | 2  | Surface | Vanadium          | mg/kg | 3.46E+01 | 1.10E-06  | 1.03E-05 | 7.10E-10   |                   |
| 561  | 2  | Surface | Cesium-137        | pCi/g | 4.09E-01 | 1.43E+01  |          | 9.24E-03   | 3.92E-01          |
| 561  | 2  | Surface | Cobalt-60         | pCi/g | 2.76E-02 | 9.66E-01  |          | 6.23E-04   | 2.65E-02          |
| 561  | 2  | Surface | Neptunium-237     | pCi/g | 4.71E-02 | 1.65E+00  |          | 1.06E-03   | 4.52E-02          |
| 561  | 2  | Surface | Uranium-234       | pCi/g | 4.06E+01 | 1.42E+03  |          | 9.17E-01   | 3.90E+01          |
| 561  | 2  | Surface | Uranium-235       | pCi/g | 7.09E+00 | 2.48E+02  |          | 1.60E-01   | 6.80E+00          |
| 561  | 2  | Surface | Uranium-238       | pCi/g | 4.00E+02 | 1.40E+04  |          | 9.04E+00   | 3.84E+02          |
| 562  | 1  | Surface | Uranium           | mg/kg | 8.73E+01 | 2.78E-06  | 5.01E-05 | 1.79E-09   |                   |
| 562  | 1  | Surface | Uranium-238       | pCi/g | 2.73E+00 | 9.56E+01  |          | 6.16E-02   | 2.62E+00          |
| 562  | 2  | Surface | PCB, Total        | mg/kg | 1.58E+00 | 5.03E-08  | 2.54E-06 | 5.51E-08   |                   |
| 562  | 2  | Surface | Protactinium-234m | pCi/g | 2.76E+02 | 9.65E+03  |          | 6.23E+00   | 2.64E+02          |
| 562  | 2  | Surface | Uranium-234       | pCi/g | 5.34E+01 | 1.87E+03  |          | 1.21E+00   | 5.12E+01          |
| 562  | 2  | Surface | Uranium-235       | pCi/g | 8.96E+00 | 3.14E+02  |          | 2.02E-01   | 8.59E+00          |
| 562  | 2  | Surface | Uranium-238       | pCi/g | 5.81E+02 | 2.03E+04  |          | 1.31E+01   | 5.57E+02          |
| 562  | 3  | Surface | Chromium          | mg/kg | 3.82E+01 | 1.22E-06  | 2.19E-05 | 7.84E-10   |                   |
| 562  | 3  | Surface | PCB, Total        | mg/kg | 2.40E-01 | 7.65E-09  | 3.85E-07 | 8.38E-09   |                   |
| 562  | 3  | Surface | Total PAH         | mg/kg | 2.20E-01 | 7.01E-09  | 3.28E-07 | 3.36E-10   |                   |
| 562  | 3  | Surface | Uranium           | mg/kg | 5.89E+01 | 1.88E-06  | 3.38E-05 | 1.21E-09   |                   |
| 562  | 3  | Surface | Uranium-235       | pCi/g | 1.63E-01 | 5.71E+00  |          | 3.68E-03   | 1.56E-01          |
| 562  | 3  | Surface | Uranium-238       | pCi/g | 1.09E+01 | 3.82E+02  |          | 2.46E-01   | 1.05E+01          |
| 562  | 4  | Surface | Chromium          | mg/kg | 4.67E+01 | 1.49E-06  | 2.68E-05 | 9.59E-10   |                   |
| 562  | 4  | Surface | Uranium           | mg/kg | 2.10E+01 | 6.69E-07  | 1.20E-05 | 4.31E-10   |                   |
| 562  | 4  | Surface | Uranium-238       | pCi/g | 2.24E+00 | 7.84E+01  |          | 5.06E-02   | 2.15E+00          |
| 562  | 5  | Surface | Chromium          | mg/kg | 1.53E+02 | 4.88E-06  | 8.78E-05 | 3.15E-09   |                   |
| 562  | 5  | Surface | PCB, Total        | mg/kg | 9.50E-01 | 3.03E-08  | 1.53E-06 | 3.32E-08   |                   |
| 562  | 5  | Surface | Total PAH         | mg/kg | 7.05E-02 | 2.25E-09  | 1.05E-07 | 1.08E-10   |                   |
| 562  | 5  | Surface | Uranium           | mg/kg | 2.08E+02 | 6.63E-06  | 1.19E-04 | 4.28E-09   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC              | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|-------------------|-------|----------|-----------|----------|------------|-------------------|
| 562  | 5  | Surface | Uranium-234       | pCi/g | 8.57E+00 | 3.00E+02  |          | 1.94E-01   | 8.22E+00          |
| 562  | 5  | Surface | Uranium-235       | pCi/g | 9.50E-01 | 3.33E+01  |          | 2.15E-02   | 9.11E-01          |
| 562  | 5  | Surface | Uranium-238       | pCi/g | 6.24E+01 | 2.18E+03  |          | 1.41E+00   | 5.98E+01          |
| 562  | 6  | Surface | Protactinium-234m | pCi/g | 3.66E+02 | 1.28E+04  |          | 8.26E+00   | 3.51E+02          |
| 562  | 6  | Surface | Uranium-234       | pCi/g | 4.01E+01 | 1.40E+03  |          | 9.06E-01   | 3.85E+01          |
| 562  | 6  | Surface | Uranium-235       | pCi/g | 6.81E+00 | 2.38E+02  |          | 1.54E-01   | 6.53E+00          |
| 562  | 6  | Surface | Uranium-238       | pCi/g | 3.62E+02 | 1.27E+04  |          | 8.17E+00   | 3.47E+02          |
| 563  | 1  | Surface | Cadmium           | mg/kg | 8.96E-01 | 2.85E-08  | 1.03E-08 | 1.84E-11   |                   |
| 563  | 1  | Surface | Chromium          | mg/kg | 2.85E+02 | 9.08E-06  | 1.63E-04 | 5.86E-09   |                   |
| 563  | 1  | Surface | PCB, Total        | mg/kg | 7.40E-01 | 2.36E-08  | 1.19E-06 | 2.58E-08   |                   |
| 563  | 1  | Surface | Uranium           | mg/kg | 1.51E+01 | 4.81E-07  | 8.65E-06 | 3.10E-10   |                   |
| 563  | 1  | Surface | Uranium-238       | pCi/g | 2.76E+00 | 9.66E+01  |          | 6.23E-02   | 2.65E+00          |
| 563  | 2  | Surface | Cesium-137        | pCi/g | 6.47E-01 | 2.26E+01  |          | 1.46E-02   | 6.20E-01          |
| 563  | 2  | Surface | Uranium-238       | pCi/g | 1.49E+00 | 5.22E+01  |          | 3.36E-02   | 1.43E+00          |
| 564  | 1  | Surface | Arsenic           | mg/kg | 4.30E+01 | 1.37E-06  | 1.48E-05 | 8.84E-10   |                   |
| 564  | 1  | Surface | Beryllium         | mg/kg | 2.12E+00 | 6.75E-08  | 1.70E-07 | 4.36E-11   |                   |
| 564  | 1  | Surface | Cadmium           | mg/kg | 1.96E+00 | 6.24E-08  | 2.25E-08 | 4.03E-11   |                   |
| 564  | 1  | Surface | Chromium          | mg/kg | 7.49E+01 | 2.39E-06  | 4.30E-05 | 1.54E-09   |                   |
| 564  | 1  | Surface | Iron              | mg/kg | 3.66E+04 | 1.17E-03  | 2.10E-02 | 7.52E-07   |                   |
| 564  | 1  | Surface | Mercury           | mg/kg | 2.30E-01 | 7.33E-09  | 1.32E-07 | 1.42E-07   |                   |
| 564  | 1  | Surface | Nickel            | mg/kg | 2.24E+01 | 7.14E-07  | 1.03E-05 | 4.60E-10   |                   |
| 564  | 1  | Surface | PCB, Total        | mg/kg | 1.93E+00 | 6.15E-08  | 3.10E-06 | 6.74E-08   |                   |
| 564  | 1  | Surface | Thallium          | mg/kg | 2.36E+00 | 7.52E-08  | 1.35E-06 | 4.85E-11   |                   |
| 564  | 1  | Surface | Uranium           | mg/kg | 5.83E+01 | 1.86E-06  | 3.34E-05 | 1.20E-09   |                   |
| 564  | 1  | Surface | Vanadium          | mg/kg | 8.06E+01 | 2.57E-06  | 2.40E-05 | 1.66E-09   |                   |
| 564  | 1  | Surface | Cesium-137        | pCi/g | 6.20E-01 | 2.17E+01  |          | 1.40E-02   | 5.95E-01          |
| 564  | 1  | Surface | Thorium-230       | pCi/g | 5.01E+00 | 1.75E+02  |          | 1.13E-01   | 4.80E+00          |
| 564  | 1  | Surface | Uranium-234       | pCi/g | 6.93E+00 | 2.43E+02  |          | 1.56E-01   | 6.65E+00          |
| 564  | 1  | Surface | Uranium-235       | pCi/g | 3.87E-01 | 1.35E+01  |          | 8.74E-03   | 3.71E-01          |
| 564  | 1  | Surface | Uranium-238       | pCi/g | 8.33E+00 | 2.92E+02  |          | 1.88E-01   | 7.99E+00          |
| 567  | 3  | Surface | Chromium          | mg/kg | 3.79E+01 | 1.21E-06  | 2.17E-05 | 7.79E-10   |                   |
| 567  | 4  | Surface | Aluminum          | mg/kg | 1.25E+04 | 3.99E-04  | 7.18E-03 | 2.57E-07   |                   |
| 567  | 4  | Surface | Chromium          | mg/kg | 1.63E+01 | 5.19E-07  | 9.35E-06 | 3.35E-10   |                   |
| 567  | 4  | Surface | Uranium-238       | pCi/g | 1.05E+00 | 3.67E+01  |          | 2.37E-02   | 1.01E+00          |
| 14   | 1  | Surface | Arsenic           | mg/kg | 1.10E+01 | 3.50E-07  | 3.78E-06 | 2.26E-10   |                   |
| 14   | 1  | Surface | Chromium          | mg/kg | 6.36E+01 | 2.03E-06  | 3.65E-05 | 1.31E-09   |                   |
| 14   | 1  | Surface | Iron              | mg/kg | 1.89E+04 | 6.01E-04  | 1.08E-02 | 3.88E-07   |                   |
| 14   | 1  | Surface | Nickel            | mg/kg | 1.40E+02 | 4.45E-06  | 6.41E-05 | 2.87E-09   |                   |
| 14   | 1  | Surface | PCB, Total        | mg/kg | 5.00E-01 | 1.59E-08  | 8.03E-07 | 1.75E-08   |                   |
| 14   | 1  | Surface | Silver            | mg/kg | 1.67E+01 | 5.32E-07  | 7.66E-06 | 3.43E-10   |                   |
| 14   | 1  | Surface | Uranium           | mg/kg | 7.21E+01 | 2.30E-06  | 4.14E-05 | 1.48E-09   |                   |
| 14   | 1  | Surface | Americium-241     | pCi/g | 1.27E+00 | 4.43E+01  |          | 2.86E-02   | 1.21E+00          |
| 14   | 1  | Surface | Neptunium-237     | pCi/g | 2.14E-01 | 7.49E+00  |          | 4.83E-03   | 2.05E-01          |
| 14   | 1  | Surface | Technetium-99     | pCi/g | 4.06E+02 | 1.42E+04  |          | 9.17E+00   | 3.89E+02          |
| 14   | 1  | Surface | Uranium-238       | pCi/g | 1.69E+00 | 5.92E+01  |          | 3.82E-02   | 1.62E+00          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 2  | Surface | Antimony      | mg/kg | 3.70E+00 | 1.18E-07  | 2.12E-06 | 7.60E-11   |                   |
| 14   | 2  | Surface | Arsenic       | mg/kg | 1.45E+01 | 4.63E-07  | 5.00E-06 | 2.99E-10   |                   |
| 14   | 2  | Surface | Beryllium     | mg/kg | 7.10E-01 | 2.26E-08  | 5.70E-08 | 1.46E-11   |                   |
| 14   | 2  | Surface | Chromium      | mg/kg | 6.65E+01 | 2.12E-06  | 3.82E-05 | 1.37E-09   |                   |
| 14   | 2  | Surface | Copper        | mg/kg | 1.76E+02 | 5.62E-06  | 1.01E-04 | 3.63E-09   |                   |
| 14   | 2  | Surface | Iron          | mg/kg | 3.72E+04 | 1.18E-03  | 2.13E-02 | 7.64E-07   |                   |
| 14   | 2  | Surface | Manganese     | mg/kg | 1.44E+03 | 4.59E-05  | 6.62E-04 | 2.96E-08   |                   |
| 14   | 2  | Surface | Mercury       | mg/kg | 2.67E-01 | 8.51E-09  | 1.53E-07 | 1.65E-07   |                   |
| 14   | 2  | Surface | Nickel        | mg/kg | 6.78E+02 | 2.16E-05  | 3.11E-04 | 1.39E-08   |                   |
| 14   | 2  | Surface | PCB, Total    | mg/kg | 3.90E-01 | 1.24E-08  | 6.26E-07 | 1.36E-08   |                   |
| 14   | 2  | Surface | Total PAH     | mg/kg | 3.38E-01 | 1.08E-08  | 5.04E-07 | 5.16E-10   |                   |
| 14   | 2  | Surface | Uranium       | mg/kg | 2.93E+02 | 9.34E-06  | 1.68E-04 | 6.03E-09   |                   |
| 14   | 2  | Surface | Neptunium-237 | pCi/g | 7.70E-01 | 2.70E+01  |          | 1.74E-02   | 7.38E-01          |
| 14   | 2  | Surface | Thorium-230   | pCi/g | 5.98E+00 | 2.09E+02  |          | 1.35E-01   | 5.73E+00          |
| 14   | 2  | Surface | Uranium-234   | pCi/g | 3.24E+01 | 1.13E+03  |          | 7.32E-01   | 3.11E+01          |
| 14   | 2  | Surface | Uranium-235   | pCi/g | 2.00E+00 | 7.00E+01  |          | 4.52E-02   | 1.92E+00          |
| 14   | 2  | Surface | Uranium-238   | pCi/g | 5.61E+01 | 1.96E+03  |          | 1.27E+00   | 5.38E+01          |
| 14   | 3  | Surface | Arsenic       | mg/kg | 1.30E+01 | 4.13E-07  | 4.46E-06 | 2.67E-10   |                   |
| 14   | 3  | Surface | Chromium      | mg/kg | 7.01E+01 | 2.23E-06  | 4.02E-05 | 1.44E-09   |                   |
| 14   | 3  | Surface | Copper        | mg/kg | 1.29E+02 | 4.12E-06  | 7.41E-05 | 2.66E-09   |                   |
| 14   | 3  | Surface | Iron          | mg/kg | 3.48E+04 | 1.11E-03  | 2.00E-02 | 7.16E-07   |                   |
| 14   | 3  | Surface | Manganese     | mg/kg | 1.06E+03 | 3.37E-05  | 4.85E-04 | 2.17E-08   |                   |
| 14   | 3  | Surface | Mercury       | mg/kg | 7.48E+00 | 2.38E-07  | 4.29E-06 | 4.61E-06   |                   |
| 14   | 3  | Surface | Molybdenum    | mg/kg | 2.21E+01 | 7.03E-07  | 1.27E-05 | 4.54E-10   |                   |
| 14   | 3  | Surface | Nickel        | mg/kg | 5.76E+02 | 1.84E-05  | 2.64E-04 | 1.18E-08   |                   |
| 14   | 3  | Surface | PCB, Total    | mg/kg | 8.65E+00 | 2.75E-07  | 1.39E-05 | 3.02E-07   |                   |
| 14   | 3  | Surface | Uranium       | mg/kg | 2.18E+02 | 6.94E-06  | 1.25E-04 | 4.47E-09   |                   |
| 14   | 3  | Surface | Uranium-238   | pCi/g | 1.50E+00 | 5.25E+01  |          | 3.39E-02   | 1.44E+00          |
| 14   | 4  | Surface | Antimony      | mg/kg | 4.30E+00 | 1.37E-07  | 2.47E-06 | 8.84E-11   |                   |
| 14   | 4  | Surface | Arsenic       | mg/kg | 1.33E+01 | 4.23E-07  | 4.57E-06 | 2.73E-10   |                   |
| 14   | 4  | Surface | Chromium      | mg/kg | 7.20E+01 | 2.29E-06  | 4.13E-05 | 1.48E-09   |                   |
| 14   | 4  | Surface | Copper        | mg/kg | 3.54E+02 | 1.13E-05  | 2.03E-04 | 7.27E-09   |                   |
| 14   | 4  | Surface | Iron          | mg/kg | 3.88E+04 | 1.24E-03  | 2.23E-02 | 7.98E-07   |                   |
| 14   | 4  | Surface | Mercury       | mg/kg | 4.87E-01 | 1.55E-08  | 2.79E-07 | 3.00E-07   |                   |
| 14   | 4  | Surface | Nickel        | mg/kg | 7.31E+02 | 2.33E-05  | 3.35E-04 | 1.50E-08   |                   |
| 14   | 4  | Surface | PCB, Total    | mg/kg | 6.61E+00 | 2.10E-07  | 1.06E-05 | 2.31E-07   |                   |
| 14   | 4  | Surface | Silver        | mg/kg | 1.17E+01 | 3.73E-07  | 5.37E-06 | 2.40E-10   |                   |
| 14   | 4  | Surface | Total PAH     | mg/kg | 2.51E-01 | 7.99E-09  | 3.74E-07 | 3.83E-10   |                   |
| 14   | 4  | Surface | Uranium       | mg/kg | 3.72E+02 | 1.18E-05  | 2.13E-04 | 7.64E-09   |                   |
| 14   | 4  | Surface | Neptunium-237 | pCi/g | 2.68E+00 | 9.38E+01  |          | 6.05E-02   | 2.57E+00          |
| 14   | 4  | Surface | Thorium-230   | pCi/g | 8.33E+00 | 2.92E+02  |          | 1.88E-01   | 7.99E+00          |
| 14   | 4  | Surface | Uranium-234   | pCi/g | 1.13E+02 | 3.96E+03  |          | 2.55E+00   | 1.08E+02          |
| 14   | 4  | Surface | Uranium-235   | pCi/g | 8.00E+00 | 2.80E+02  |          | 1.81E-01   | 7.67E+00          |
| 14   | 4  | Surface | Uranium-238   | pCi/g | 1.69E+02 | 5.92E+03  |          | 3.82E+00   | 1.62E+02          |
| 14   | 5  | Surface | Antimony      | mg/kg | 2.30E+00 | 7.33E-08  | 1.32E-06 | 4.73E-11   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 5  | Surface | Arsenic       | mg/kg | 1.31E+01 | 4.17E-07  | 4.50E-06 | 2.69E-10   |                   |
| 14   | 5  | Surface | Cadmium       | mg/kg | 3.90E+00 | 1.24E-07  | 4.47E-08 | 8.02E-11   |                   |
| 14   | 5  | Surface | Chromium      | mg/kg | 4.70E+01 | 1.50E-06  | 2.69E-05 | 9.65E-10   |                   |
| 14   | 5  | Surface | Cobalt        | mg/kg | 1.40E+01 | 4.46E-07  | 8.03E-06 | 2.88E-10   |                   |
| 14   | 5  | Surface | Copper        | mg/kg | 1.34E+02 | 4.25E-06  | 7.66E-05 | 2.74E-09   |                   |
| 14   | 5  | Surface | Iron          | mg/kg | 3.92E+04 | 1.25E-03  | 2.25E-02 | 8.06E-07   |                   |
| 14   | 5  | Surface | Manganese     | mg/kg | 8.28E+02 | 2.64E-05  | 3.80E-04 | 1.70E-08   |                   |
| 14   | 5  | Surface | Mercury       | mg/kg | 1.09E+01 | 3.49E-07  | 6.27E-06 | 6.75E-06   |                   |
| 14   | 5  | Surface | Nickel        | mg/kg | 4.61E+02 | 1.47E-05  | 2.12E-04 | 9.48E-09   |                   |
| 14   | 5  | Surface | PCB, Total    | mg/kg | 1.00E+00 | 3.19E-08  | 1.61E-06 | 3.49E-08   |                   |
| 14   | 5  | Surface | Silver        | mg/kg | 1.29E+01 | 4.10E-07  | 5.90E-06 | 2.65E-10   |                   |
| 14   | 5  | Surface | Thallium      | mg/kg | 4.10E-01 | 1.31E-08  | 2.35E-07 | 8.43E-12   |                   |
| 14   | 5  | Surface | Total PAH     | mg/kg | 1.21E-01 | 3.85E-09  | 1.80E-07 | 1.85E-10   |                   |
| 14   | 5  | Surface | Uranium       | mg/kg | 2.62E+02 | 8.35E-06  | 1.50E-04 | 5.39E-09   |                   |
| 14   | 5  | Surface | Neptunium-237 | pCi/g | 1.74E+00 | 6.09E+01  |          | 3.93E-02   | 1.67E+00          |
| 14   | 5  | Surface | Technetium-99 | pCi/g | 1.01E+02 | 3.54E+03  |          | 2.28E+00   | 9.68E+01          |
| 14   | 5  | Surface | Thorium-230   | pCi/g | 1.39E+01 | 4.87E+02  |          | 3.14E-01   | 1.33E+01          |
| 14   | 5  | Surface | Uranium-234   | pCi/g | 5.22E+01 | 1.83E+03  |          | 1.18E+00   | 5.01E+01          |
| 14   | 5  | Surface | Uranium-235   | pCi/g | 3.33E+00 | 1.17E+02  |          | 7.52E-02   | 3.19E+00          |
| 14   | 5  | Surface | Uranium-238   | pCi/g | 9.42E+01 | 3.30E+03  |          | 2.13E+00   | 9.03E+01          |
| 14   | 6  | Surface | Antimony      | mg/kg | 2.70E+00 | 8.60E-08  | 1.55E-06 | 5.55E-11   |                   |
| 14   | 6  | Surface | Cadmium       | mg/kg | 8.40E-01 | 2.68E-08  | 9.63E-09 | 1.73E-11   |                   |
| 14   | 6  | Surface | Chromium      | mg/kg | 4.46E+02 | 1.42E-05  | 2.56E-04 | 9.16E-09   |                   |
| 14   | 6  | Surface | Copper        | mg/kg | 1.22E+02 | 3.90E-06  | 7.01E-05 | 2.51E-09   |                   |
| 14   | 6  | Surface | Mercury       | mg/kg | 3.47E-01 | 1.11E-08  | 1.99E-07 | 2.14E-07   |                   |
| 14   | 6  | Surface | Nickel        | mg/kg | 9.63E+02 | 3.07E-05  | 4.42E-04 | 1.98E-08   |                   |
| 14   | 6  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 1.59E-07  | 8.03E-06 | 1.75E-07   |                   |
| 14   | 6  | Surface | Silver        | mg/kg | 1.19E+01 | 3.78E-07  | 5.45E-06 | 2.44E-10   |                   |
| 14   | 6  | Surface | Uranium       | mg/kg | 5.79E+02 | 1.84E-05  | 3.32E-04 | 1.19E-08   |                   |
| 14   | 6  | Surface | Neptunium-237 | pCi/g | 2.65E+00 | 9.28E+01  |          | 5.98E-02   | 2.54E+00          |
| 14   | 6  | Surface | Uranium-234   | pCi/g | 3.41E+01 | 1.19E+03  |          | 7.70E-01   | 3.27E+01          |
| 14   | 6  | Surface | Uranium-235   | pCi/g | 2.27E+00 | 7.95E+01  |          | 5.13E-02   | 2.18E+00          |
| 14   | 6  | Surface | Uranium-238   | pCi/g | 5.08E+01 | 1.78E+03  |          | 1.15E+00   | 4.87E+01          |
| 14   | 7  | Surface | Antimony      | mg/kg | 7.50E-01 | 2.39E-08  | 4.30E-07 | 1.54E-11   |                   |
| 14   | 7  | Surface | Arsenic       | mg/kg | 1.13E+01 | 3.60E-07  | 3.89E-06 | 2.32E-10   |                   |
| 14   | 7  | Surface | Cadmium       | mg/kg | 2.70E+00 | 8.60E-08  | 3.10E-08 | 5.55E-11   |                   |
| 14   | 7  | Surface | Chromium      | mg/kg | 6.46E+01 | 2.06E-06  | 3.70E-05 | 1.33E-09   |                   |
| 14   | 7  | Surface | Mercury       | mg/kg | 7.82E+00 | 2.49E-07  | 4.48E-06 | 4.82E-06   |                   |
| 14   | 7  | Surface | Nickel        | mg/kg | 1.22E+03 | 3.90E-05  | 5.61E-04 | 2.51E-08   |                   |
| 14   | 7  | Surface | PCB, Total    | mg/kg | 7.60E+00 | 2.42E-07  | 1.22E-05 | 2.65E-07   |                   |
| 14   | 7  | Surface | Total PAH     | mg/kg | 6.31E-02 | 2.01E-09  | 9.41E-08 | 9.63E-11   |                   |
| 14   | 7  | Surface | Uranium       | mg/kg | 3.33E+02 | 1.06E-05  | 1.91E-04 | 6.84E-09   |                   |
| 14   | 7  | Surface | Neptunium-237 | pCi/g | 1.49E+00 | 5.22E+01  |          | 3.36E-02   | 1.43E+00          |
| 14   | 7  | Surface | Uranium-234   | pCi/g | 1.28E+01 | 4.48E+02  |          | 2.89E-01   | 1.23E+01          |
| 14   | 7  | Surface | Uranium-235   | pCi/g | 9.60E-01 | 3.36E+01  |          | 2.17E-02   | 9.21E-01          |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 14   | 7  | Surface | Uranium-238   | pCi/g | 2.13E+01 | 7.46E+02  |          | 4.81E-01   | 2.04E+01          |
| 14   | 8  | Surface | Antimony      | mg/kg | 6.10E-01 | 1.94E-08  | 3.50E-07 | 1.25E-11   |                   |
| 14   | 8  | Surface | Arsenic       | mg/kg | 1.14E+01 | 3.63E-07  | 3.92E-06 | 2.34E-10   |                   |
| 14   | 8  | Surface | Chromium      | mg/kg | 4.60E+01 | 1.47E-06  | 2.64E-05 | 9.46E-10   |                   |
| 14   | 8  | Surface | Mercury       | mg/kg | 7.90E+00 | 2.52E-07  | 4.53E-06 | 4.87E-06   |                   |
| 14   | 8  | Surface | Nickel        | mg/kg | 6.73E+02 | 2.14E-05  | 3.09E-04 | 1.38E-08   |                   |
| 14   | 8  | Surface | PCB, Total    | mg/kg | 5.00E+00 | 1.59E-07  | 8.03E-06 | 1.75E-07   |                   |
| 14   | 8  | Surface | Silver        | mg/kg | 9.63E+00 | 3.07E-07  | 4.42E-06 | 1.98E-10   |                   |
| 14   | 8  | Surface | Total PAH     | mg/kg | 6.28E-02 | 2.00E-09  | 9.36E-08 | 9.57E-11   |                   |
| 14   | 8  | Surface | Uranium       | mg/kg | 3.35E+02 | 1.07E-05  | 1.92E-04 | 6.89E-09   |                   |
| 14   | 8  | Surface | Neptunium-237 | pCi/g | 8.80E-01 | 3.08E+01  |          | 1.99E-02   | 8.44E-01          |
| 14   | 8  | Surface | Uranium-235   | pCi/g | 2.38E-01 | 8.33E+00  |          | 5.37E-03   | 2.28E-01          |
| 14   | 8  | Surface | Uranium-238   | pCi/g | 5.92E+00 | 2.07E+02  |          | 1.34E-01   | 5.68E+00          |
| 14   | 9  | Surface | Antimony      | mg/kg | 2.00E+00 | 6.37E-08  | 1.15E-06 | 4.11E-11   |                   |
| 14   | 9  | Surface | Arsenic       | mg/kg | 1.40E+01 | 4.47E-07  | 4.83E-06 | 2.89E-10   |                   |
| 14   | 9  | Surface | Cadmium       | mg/kg | 9.40E-01 | 2.99E-08  | 1.08E-08 | 1.93E-11   |                   |
| 14   | 9  | Surface | Chromium      | mg/kg | 4.64E+01 | 1.48E-06  | 2.66E-05 | 9.54E-10   |                   |
| 14   | 9  | Surface | Mercury       | mg/kg | 1.13E+00 | 3.60E-08  | 6.48E-07 | 6.97E-07   |                   |
| 14   | 9  | Surface | Nickel        | mg/kg | 9.43E+02 | 3.01E-05  | 4.33E-04 | 1.94E-08   |                   |
| 14   | 9  | Surface | PCB, Total    | mg/kg | 6.84E+00 | 2.18E-07  | 1.10E-05 | 2.39E-07   |                   |
| 14   | 9  | Surface | Total PAH     | mg/kg | 4.87E-01 | 1.55E-08  | 7.27E-07 | 7.44E-10   |                   |
| 14   | 9  | Surface | Uranium       | mg/kg | 1.46E+03 | 4.66E-05  | 8.40E-04 | 3.01E-08   |                   |
| 14   | 9  | Surface | Cesium-137    | pCi/g | 4.53E-01 | 1.59E+01  |          | 1.02E-02   | 4.34E-01          |
| 14   | 9  | Surface | Neptunium-237 | pCi/g | 1.09E+01 | 3.83E+02  |          | 2.47E-01   | 1.05E+01          |
| 14   | 9  | Surface | Technetium-99 | pCi/g | 1.96E+02 | 6.86E+03  |          | 4.42E+00   | 1.88E+02          |
| 14   | 9  | Surface | Uranium-234   | pCi/g | 8.32E+02 | 2.91E+04  |          | 1.88E+01   | 7.98E+02          |
| 14   | 9  | Surface | Uranium-235   | pCi/g | 5.46E+01 | 1.91E+03  |          | 1.23E+00   | 5.23E+01          |
| 14   | 9  | Surface | Uranium-238   | pCi/g | 1.20E+03 | 4.20E+04  |          | 2.71E+01   | 1.15E+03          |
| 14   | 10 | Surface | Antimony      | mg/kg | 9.40E-01 | 2.99E-08  | 5.39E-07 | 1.93E-11   |                   |
| 14   | 10 | Surface | Arsenic       | mg/kg | 1.12E+01 | 3.58E-07  | 3.87E-06 | 2.31E-10   |                   |
| 14   | 10 | Surface | Chromium      | mg/kg | 4.19E+01 | 1.33E-06  | 2.40E-05 | 8.60E-10   |                   |
| 14   | 10 | Surface | Copper        | mg/kg | 1.41E+02 | 4.50E-06  | 8.10E-05 | 2.90E-09   |                   |
| 14   | 10 | Surface | Iron          | mg/kg | 2.75E+04 | 8.74E-04  | 1.57E-02 | 5.64E-07   |                   |
| 14   | 10 | Surface | Mercury       | mg/kg | 2.51E+01 | 7.99E-07  | 1.44E-05 | 1.55E-05   |                   |
| 14   | 10 | Surface | Nickel        | mg/kg | 6.00E+02 | 1.91E-05  | 2.75E-04 | 1.23E-08   |                   |
| 14   | 10 | Surface | PCB, Total    | mg/kg | 9.38E+00 | 2.99E-07  | 1.51E-05 | 3.27E-07   |                   |
| 14   | 10 | Surface | Total PAH     | mg/kg | 2.72E-01 | 8.65E-09  | 4.05E-07 | 4.14E-10   |                   |
| 14   | 10 | Surface | Uranium       | mg/kg | 2.88E+02 | 9.19E-06  | 1.65E-04 | 5.93E-09   |                   |
| 14   | 10 | Surface | Neptunium-237 | pCi/g | 2.64E+00 | 9.24E+01  |          | 5.96E-02   | 2.53E+00          |
| 14   | 10 | Surface | Uranium-234   | pCi/g | 2.42E+01 | 8.47E+02  |          | 5.46E-01   | 2.32E+01          |
| 14   | 10 | Surface | Uranium-235   | pCi/g | 1.76E+00 | 6.16E+01  |          | 3.97E-02   | 1.69E+00          |
| 14   | 10 | Surface | Uranium-238   | pCi/g | 4.09E+01 | 1.43E+03  |          | 9.24E-01   | 3.92E+01          |
| 518  | 1  | Surface | Carbazole     | mg/kg | 1.17E+01 | 3.73E-07  | 1.34E-05 | 1.12E-07   |                   |
| 518  | 1  | Surface | Cobalt        | mg/kg | 6.80E+00 | 2.17E-07  | 3.90E-06 | 1.40E-10   |                   |
| 518  | 1  | Surface | Nickel        | mg/kg | 1.29E+01 | 4.10E-07  | 5.90E-06 | 2.64E-10   |                   |

CDI = chronic daily intake  
SWMU = solid waste management unit  
EU = exposure unit  
COPC = chemical of potential concern  
EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 518  | 1  | Surface | PCB, Total    | mg/kg | 6.30E-01 | 2.01E-08  | 1.01E-06 | 2.20E-08   |                   |
| 518  | 1  | Surface | Pyrene        | mg/kg | 3.94E+01 | 1.26E-06  | 5.88E-05 | 5.35E-07   |                   |
| 518  | 1  | Surface | Total PAH     | mg/kg | 3.90E+01 | 1.24E-06  | 5.81E-05 | 5.94E-08   |                   |
| 518  | 1  | Surface | Uranium       | mg/kg | 2.17E+02 | 6.91E-06  | 1.24E-04 | 4.46E-09   |                   |
| 518  | 1  | Surface | Uranium-235   | pCi/g | 6.74E-02 | 2.36E+00  |          | 1.52E-03   | 6.46E-02          |
| 518  | 1  | Surface | Uranium-238   | pCi/g | 1.51E+00 | 5.30E+01  |          | 3.42E-02   | 1.45E+00          |
| 520  | 1  | Surface | Chromium      | mg/kg | 3.17E+01 | 1.01E-06  | 1.82E-05 | 6.52E-10   |                   |
| 520  | 1  | Surface | Iron          | mg/kg | 1.56E+04 | 4.97E-04  | 8.94E-03 | 3.20E-07   |                   |
| 520  | 1  | Surface | Mercury       | mg/kg | 1.07E+01 | 3.40E-07  | 6.12E-06 | 6.59E-06   |                   |
| 520  | 1  | Surface | Nickel        | mg/kg | 2.60E+02 | 8.30E-06  | 1.19E-04 | 5.35E-09   |                   |
| 520  | 1  | Surface | Silver        | mg/kg | 1.30E+01 | 4.13E-07  | 5.95E-06 | 2.67E-10   |                   |
| 520  | 1  | Surface | Total PAH     | mg/kg | 3.18E-02 | 1.01E-09  | 4.75E-08 | 4.86E-11   |                   |
| 520  | 1  | Surface | Uranium       | mg/kg | 2.29E+01 | 7.31E-07  | 1.32E-05 | 4.71E-10   |                   |
| 520  | 1  | Surface | Cesium-137    | pCi/g | 9.62E-01 | 3.37E+01  |          | 2.17E-02   | 9.22E-01          |
| 520  | 1  | Surface | Neptunium-237 | pCi/g | 6.56E-01 | 2.30E+01  |          | 1.48E-02   | 6.29E-01          |
| 520  | 1  | Surface | Thorium-230   | pCi/g | 1.13E+01 | 3.97E+02  |          | 2.56E-01   | 1.09E+01          |
| 520  | 1  | Surface | Uranium-235   | pCi/g | 1.26E-01 | 4.41E+00  |          | 2.85E-03   | 1.21E-01          |
| 520  | 1  | Surface | Uranium-238   | pCi/g | 3.93E+00 | 1.38E+02  |          | 8.87E-02   | 3.77E+00          |
| 520  | 2  | Surface | Beryllium     | mg/kg | 5.79E-01 | 1.84E-08  | 4.65E-08 | 1.19E-11   |                   |
| 520  | 2  | Surface | Chromium      | mg/kg | 6.67E+01 | 2.12E-06  | 3.82E-05 | 1.37E-09   |                   |
| 520  | 2  | Surface | Manganese     | mg/kg | 5.89E+02 | 1.88E-05  | 2.70E-04 | 1.21E-08   |                   |
| 520  | 2  | Surface | Mercury       | mg/kg | 1.19E+01 | 3.78E-07  | 6.81E-06 | 7.33E-06   |                   |
| 520  | 2  | Surface | Nickel        | mg/kg | 3.11E+02 | 9.89E-06  | 1.42E-04 | 6.38E-09   |                   |
| 520  | 2  | Surface | Total PAH     | mg/kg | 3.17E-01 | 1.01E-08  | 4.73E-07 | 4.84E-10   |                   |
| 520  | 2  | Surface | Uranium       | mg/kg | 3.96E+01 | 1.26E-06  | 2.27E-05 | 8.13E-10   |                   |
| 520  | 2  | Surface | Neptunium-237 | pCi/g | 7.48E-02 | 2.62E+00  |          | 1.69E-03   | 7.17E-02          |
| 520  | 2  | Surface | Uranium-238   | pCi/g | 1.78E+00 | 6.22E+01  |          | 4.01E-02   | 1.70E+00          |
| 520  | 3  | Surface | Chromium      | mg/kg | 3.97E+01 | 1.26E-06  | 2.28E-05 | 8.16E-10   |                   |
| 520  | 3  | Surface | Copper        | mg/kg | 1.19E+02 | 3.79E-06  | 6.82E-05 | 2.45E-09   |                   |
| 520  | 3  | Surface | Nickel        | mg/kg | 2.65E+02 | 8.44E-06  | 1.21E-04 | 5.44E-09   |                   |
| 520  | 3  | Surface | Silver        | mg/kg | 1.27E+01 | 4.04E-07  | 5.81E-06 | 2.60E-10   |                   |
| 520  | 3  | Surface | Total PAH     | mg/kg | 1.18E-01 | 3.76E-09  | 1.76E-07 | 1.80E-10   |                   |
| 520  | 3  | Surface | Uranium       | mg/kg | 1.92E+01 | 6.13E-07  | 1.10E-05 | 3.95E-10   |                   |
| 520  | 3  | Surface | Uranium-238   | pCi/g | 1.57E+00 | 5.50E+01  |          | 3.55E-02   | 1.51E+00          |
| 520  | 4  | Surface | Chromium      | mg/kg | 3.82E+01 | 1.22E-06  | 2.19E-05 | 7.86E-10   |                   |
| 520  | 4  | Surface | Copper        | mg/kg | 1.11E+02 | 3.52E-06  | 6.34E-05 | 2.27E-09   |                   |
| 520  | 4  | Surface | Mercury       | mg/kg | 9.69E+00 | 3.09E-07  | 5.56E-06 | 5.97E-06   |                   |
| 520  | 4  | Surface | Nickel        | mg/kg | 2.82E+02 | 8.98E-06  | 1.29E-04 | 5.79E-09   |                   |
| 520  | 4  | Surface | Silver        | mg/kg | 1.04E+01 | 3.33E-07  | 4.79E-06 | 2.15E-10   |                   |
| 520  | 4  | Surface | Total PAH     | mg/kg | 5.52E-01 | 1.76E-08  | 8.24E-07 | 8.43E-10   |                   |
| 520  | 4  | Surface | Uranium       | mg/kg | 2.40E+01 | 7.65E-07  | 1.38E-05 | 4.94E-10   |                   |
| 520  | 4  | Surface | Neptunium-237 | pCi/g | 7.40E-01 | 2.59E+01  |          | 1.67E-02   | 7.10E-01          |
| 520  | 4  | Surface | Uranium-235   | pCi/g | 2.42E-01 | 8.47E+00  |          | 5.46E-03   | 2.32E-01          |
| 520  | 4  | Surface | Uranium-238   | pCi/g | 6.26E+00 | 2.19E+02  |          | 1.41E-01   | 6.00E+00          |
| 520  | 5  | Surface | Antimony      | mg/kg | 9.60E-01 | 3.06E-08  | 5.50E-07 | 1.97E-11   |                   |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration

**Table D.22. Cancerous CDIs for the Teen Recreational User (Continued)**

| SWMU | EU | Depth   | COPC          | Units | EPC      | Ingestion | Dermal   | Inhalation | External Exposure |
|------|----|---------|---------------|-------|----------|-----------|----------|------------|-------------------|
| 520  | 5  | Surface | Chromium      | mg/kg | 3.68E+01 | 1.17E-06  | 2.11E-05 | 7.57E-10   |                   |
| 520  | 5  | Surface | Nickel        | mg/kg | 1.47E+02 | 4.68E-06  | 6.74E-05 | 3.02E-09   |                   |
| 520  | 5  | Surface | Total PAH     | mg/kg | 3.87E-01 | 1.23E-08  | 5.77E-07 | 5.91E-10   |                   |
| 520  | 5  | Surface | Neptunium-237 | pCi/g | 1.55E-01 | 5.43E+00  |          | 3.50E-03   | 1.49E-01          |
| 520  | 5  | Surface | Uranium-238   | pCi/g | 1.45E+00 | 5.08E+01  |          | 3.27E-02   | 1.39E+00          |
| 81   | 1  | Surface | Aluminum      | mg/kg | 9.57E+03 | 3.05E-04  | 5.49E-03 | 1.97E-07   |                   |
| 81   | 1  | Surface | Arsenic       | mg/kg | 1.03E+01 | 3.27E-07  | 3.53E-06 | 2.11E-10   |                   |
| 81   | 1  | Surface | Beryllium     | mg/kg | 7.57E-01 | 2.41E-08  | 6.08E-08 | 1.56E-11   |                   |
| 81   | 1  | Surface | Chromium      | mg/kg | 8.62E+01 | 2.75E-06  | 4.94E-05 | 1.77E-09   |                   |
| 81   | 1  | Surface | Mercury       | mg/kg | 8.33E+00 | 2.65E-07  | 4.78E-06 | 5.14E-06   |                   |
| 81   | 1  | Surface | Nickel        | mg/kg | 7.29E+01 | 2.32E-06  | 3.34E-05 | 1.50E-09   |                   |
| 81   | 1  | Surface | PCB, Total    | mg/kg | 1.60E+02 | 5.09E-06  | 2.57E-04 | 5.58E-06   |                   |
| 81   | 1  | Surface | Silver        | mg/kg | 2.70E+00 | 8.60E-08  | 1.24E-06 | 5.55E-11   |                   |
| 81   | 1  | Surface | Total PAH     | mg/kg | 5.53E-01 | 1.76E-08  | 8.24E-07 | 8.44E-10   |                   |
| 81   | 1  | Surface | Uranium       | mg/kg | 6.50E+03 | 2.07E-04  | 3.73E-03 | 1.34E-07   |                   |
| 81   | 1  | Surface | Uranium-238   | pCi/g | 2.29E+00 | 8.00E+01  |          | 5.16E-02   | 2.19E+00          |
| 153  | 1  | Surface | PCB, Total    | mg/kg | 5.09E-01 | 1.62E-08  | 8.17E-07 | 1.78E-08   |                   |
| 153  | 1  | Surface | Total PAH     | mg/kg | 8.69E-02 | 2.77E-09  | 1.30E-07 | 1.33E-10   |                   |
| 156  | 1  | Surface | Chromium      | mg/kg | 4.90E+01 | 1.56E-06  | 2.81E-05 | 1.01E-09   |                   |
| 156  | 1  | Surface | Manganese     | mg/kg | 2.83E+03 | 9.02E-05  | 1.30E-03 | 5.82E-08   |                   |
| 156  | 1  | Surface | Mercury       | mg/kg | 9.87E+00 | 3.14E-07  | 5.66E-06 | 6.09E-06   |                   |
| 156  | 1  | Surface | Nickel        | mg/kg | 6.16E+01 | 1.96E-06  | 2.83E-05 | 1.27E-09   |                   |
| 156  | 1  | Surface | PCB, Total    | mg/kg | 3.00E-01 | 9.56E-09  | 4.82E-07 | 1.05E-08   |                   |
| 156  | 1  | Surface | Total PAH     | mg/kg | 8.26E-02 | 2.63E-09  | 1.23E-07 | 1.26E-10   |                   |
| 156  | 1  | Surface | Uranium       | mg/kg | 2.32E+01 | 7.39E-07  | 1.33E-05 | 4.77E-10   |                   |
| 156  | 1  | Surface | Uranium-238   | pCi/g | 2.19E+00 | 7.67E+01  |          | 4.95E-02   | 2.10E+00          |
| 160  | 1  | Surface | Antimony      | mg/kg | 6.80E-01 | 2.17E-08  | 3.90E-07 | 1.40E-11   |                   |
| 160  | 1  | Surface | Total PAH     | mg/kg | 5.29E-02 | 1.69E-09  | 7.89E-08 | 8.07E-11   |                   |
| 163  | 1  | Surface | Chromium      | mg/kg | 4.94E+01 | 1.58E-06  | 2.84E-05 | 1.02E-09   |                   |
| 163  | 1  | Surface | Total PAH     | mg/kg | 1.63E-01 | 5.19E-09  | 2.43E-07 | 2.49E-10   |                   |
| 219  | 1  | Surface | Nickel        | mg/kg | 6.71E+01 | 2.14E-06  | 3.08E-05 | 1.38E-09   |                   |
| 219  | 1  | Surface | Total PAH     | mg/kg | 7.50E-02 | 2.39E-09  | 1.12E-07 | 1.14E-10   |                   |
| 219  | 1  | Surface | Neptunium-237 | pCi/g | 3.31E-01 | 1.16E+01  |          | 7.47E-03   | 3.17E-01          |
| 219  | 1  | Surface | Uranium-235   | pCi/g | 1.92E-01 | 6.72E+00  |          | 4.34E-03   | 1.84E-01          |
| 219  | 1  | Surface | Uranium-238   | pCi/g | 4.40E+00 | 1.54E+02  |          | 9.94E-02   | 4.22E+00          |
| 488  | 1  | Surface | PCB, Total    | mg/kg | 1.03E+01 | 3.28E-07  | 1.65E-05 | 3.59E-07   |                   |
| 488  | 1  | Surface | Total PAH     | mg/kg | 2.50E-01 | 7.96E-09  | 3.72E-07 | 3.81E-10   |                   |
| 488  | 1  | Surface | Uranium       | mg/kg | 1.48E+01 | 4.71E-07  | 8.49E-06 | 3.04E-10   |                   |
| 488  | 1  | Surface | Cesium-137    | pCi/g | 5.20E-01 | 1.82E+01  |          | 1.17E-02   | 4.99E-01          |
| 488  | 1  | Surface | Uranium-235   | pCi/g | 1.49E-01 | 5.22E+00  |          | 3.36E-03   | 1.43E-01          |
| 488  | 1  | Surface | Uranium-238   | pCi/g | 4.54E+00 | 1.59E+02  |          | 1.03E-01   | 4.35E+00          |

CDI = chronic daily intake  
 SWMU = solid waste management unit  
 EU = exposure unit  
 COPC = chemical of potential concern  
 EPC = exposure point concentration