Appendix V6-5G

Predicted Metal Concentrations Associated with Fugitive Dust during the Operational Phase at Soil Sites within the Human Health Local Study Area

TMAC RESOURCES

Appendix V6-5G. Predicted Metal Concentration Associated with Fugitive Dust during the Operational Phase at Soil Sites within the Human Health Local Study Area

Soil Sample Sites	D06 (0-10)	D06 (10-20)	D10 (0-10)	D10 (10-20)	D20 (0-10)	D20 (10-20)	D21 (0-10)	D21 (10-20)	D29 (0-10)	D29 (10-20)	D32 (0-10)	D32 (10-20)	D38 (0-10)	D38 (10-20)	D43 (0-10)
Dust Deposition	10.75	10.75	9.04	9.04	8.33	8.33	8.14	8.14	7.81	7.81	7.79	7.79	10.24	10.24	9.90
Metal Dustfall Deposition															
Aluminum	3.12E-01	3.12E-01	2.62E-01	2.62E-01	2.42E-01	2.42E-01	2.36E-01	2.36E-01	2.26E-01	2.26E-01	2.26E-01	2.26E-01	2.97E-01	2.97E-01	2.87E-01
Antimony	1.07E-06	1.07E-06	9.04E-07	9.04E-07	8.33E-07	8.33E-07	8.14E-07	8.14E-07	7.81E-07	7.81E-07	7.79E-07	7.79E-07	1.02E-06	1.02E-06	9.90E-07
Arsenic	5.37E-06	5.37E-06	4.52E-06	4.52E-06	4.17E-06	4.17E-06	4.07E-06	4.07E-06	3.90E-06	3.90E-06	3.89E-06	3.89E-06	5.12E-06	5.12E-06	4.95E-06
Barium	3.22E-05	3.22E-05	2.71E-05	2.71E-05	2.50E-05	2.50E-05	2.44E-05	2.44E-05	2.34E-05	2.34E-05	2.34E-05	2.34E-05	3.07E-05	3.07E-05	2.97E-05
Beryllium	3.55E-06	3.55E-06	2.98E-06	2.98E-06	2.75E-06	2.75E-06	2.69E-06	2.69E-06	2.58E-06	2.58E-06	2.57E-06	2.57E-06	3.38E-06	3.38E-06	3.27E-06
Bismuth	1.07E-06	1.07E-06	9.04E-07	9.04E-07	8.33E-07	8.33E-07	8.14E-07	8.14E-07	7.81E-07	7.81E-07	7.79E-07	7.79E-07	1.02E-06	1.02E-06	9.90E-07
Cadmium	1.07E-06	1.07E-06	9.04E-07	9.04E-07	8.33E-07	8.33E-07	8.14E-07	8.14E-07	7.81E-07	7.81E-07	7.79E-07	7.79E-07	1.02E-06	1.02E-06	9.90E-07
Calcium	3.44E-01	3.44E-01	2.89E-01	2.89E-01	2.67E-01	2.67E-01	2.60E-01	2.60E-01	2.50E-01	2.50E-01	2.49E-01	2.49E-01	3.28E-01	3.28E-01	3.17E-01
Chromium	1.61E-03	1.61E-03	1.36E-03	1.36E-03	1.25E-03	1.25E-03	1.22E-03	1.22E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.54E-03	1.54E-03	1.48E-03
Cobalt	3.76E-04	3.76E-04	3.16E-04	3.16E-04	2.92E-04	2.92E-04	2.85E-04	2.85E-04	2.73E-04	2.73E-04	2.73E-04	2.73E-04	3.59E-04	3.59E-04	3.46E-04
Copper	1.18E-03	1.18E-03	9.94E-04	9.94E-04	9.16E-04	9.16E-04	8.95E-04	8.95E-04	8.59E-04	8.59E-04	8.57E-04	8.57E-04	1.13E-03	1.13E-03	1.09E-03
Iron	5.27E-01	5.27E-01	4.43E-01	4.43E-01	4.08E-01	4.08E-01	3.99E-01	3.99E-01	3.82E-01	3.82E-01	3.82E-01	3.82E-01	5.02E-01	5.02E-01	4.85E-01
Lead	6.45E-06	6.45E-06	5.42E-06	5.42E-06	5.00E-06	5.00E-06	4.88E-06	4.88E-06	4.68E-06	4.68E-06	4.67E-06	4.67E-06	6.15E-06	6.15E-06	5.94E-06
Magnesium	2.47E-01	2.47E-01	2.08E-01	2.08E-01	1.92E-01	1.92E-01	1.87E-01	1.87E-01	1.80E-01	1.80E-01	1.79E-01	1.79E-01	2.36E-01	2.36E-01	2.28E-01
Manganese	9.99E-03	9.99E-03	8.41E-03	8.41E-03	7.75E-03	7.75E-03	7.57E-03	7.57E-03	7.26E-03	7.26E-03	7.24E-03	7.24E-03	9.53E-03	9.53E-03	9.21E-03
Mercury	1.07E-07	1.07E-07	9.04E-08	9.04E-08	8.33E-08	8.33E-08	8.14E-08	8.14E-08	7.81E-08	7.81E-08	7.79E-08	7.79E-08	1.02E-07	1.02E-07	9.90E-08
Molybdenum	5.37E-06	5.37E-06	4.52E-06	4.52E-06	4.17E-06	4.17E-06	4.07E-06	4.07E-06	3.90E-06	3.90E-06	3.89E-06	3.89E-06	5.12E-06	5.12E-06	4.95E-06
Nickel	7.74E-04	7.74E-04	6.51E-04	6.51E-04	6.00E-04	6.00E-04	5.86E-04	5.86E-04	5.62E-04	5.62E-04	5.61E-04	5.61E-04	7.38E-04	7.38E-04	7.13E-04
Phosphorus	2.36E-03	2.36E-03	1.99E-03	1.99E-03	1.83E-03	1.83E-03	1.79E-03	1.79E-03	1.72E-03	1.72E-03	1.71E-03	1.71E-03	2.25E-03	2.25E-03	2.18E-03
Potassium	1.07E-03	1.07E-03	9.04E-04	9.04E-04	8.33E-04	8.33E-04	8.14E-04	8.14E-04	7.81E-04	7.81E-04	7.79E-04	7.79E-04	1.02E-03	1.02E-03	9.90E-04
Selenium	5.37E-06	5.37E-06	4.52E-06	4.52E-06	4.17E-06	4.17E-06	4.07E-06	4.07E-06	3.90E-06	3.90E-06	3.89E-06	3.89E-06	5.12E-06	5.12E-06	4.95E-06
Silver	1.07E-06	1.07E-06	9.04E-07	9.04E-07	8.33E-07	8.33E-07	8.14E-07	8.14E-07	7.81E-07	7.81E-07	7.79E-07	7.79E-07	1.02E-06	1.02E-06	9.90E-07
Sodium	2.69E-03	2.69E-03	2.26E-03	2.26E-03	2.08E-03	2.08E-03	2.03E-03	2.03E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	2.56E-03	2.56E-03	2.47E-03
Strontium	1.50E-04	1.50E-04	1.27E-04	1.27E-04	1.17E-04	1.17E-04	1.14E-04	1.14E-04	1.09E-04	1.09E-04	1.09E-04	1.09E-04	1.43E-04	1.43E-04	1.39E-04
Thallium	1.07E-06	1.07E-06	9.04E-07	9.04E-07	8.33E-07	8.33E-07	8.14E-07	8.14E-07	7.81E-07	7.81E-07	7.79E-07	7.79E-07	1.02E-06	1.02E-06	9.90E-07
Tin	2.15E-05	2.15E-05	1.81E-05	1.81E-05	1.67E-05	1.67E-05	1.63E-05	1.63E-05	1.56E-05	1.56E-05	1.56E-05	1.56E-05	2.05E-05	2.05E-05	1.98E-05
Titanium	2.36E-02	2.36E-02	1.99E-02	1.99E-02	1.83E-02	1.83E-02	1.79E-02	1.79E-02	1.72E-02	1.72E-02	1.71E-02	1.71E-02	2.25E-02	2.25E-02	2.18E-02
Uranium	1.07E-06	1.07E-06	9.04E-07	9.04E-07	8.33E-07	8.33E-07	8.14E-07	8.14E-07	7.81E-07	7.81E-07	7.79E-07	7.79E-07	1.02E-06	1.02E-06	9.90E-07
Vanadium	1.07E-03	1.07E-03	9.04E-04	9.04E-04	8.33E-04	8.33E-04	8.14E-04	8.14E-04	7.81E-04	7.81E-04	7.79E-04	7.79E-04	1.02E-03	1.02E-03	9.90E-04
Zinc	6.34E-04	6.34E-04	5.33E-04	5.33E-04	4.92E-04	4.92E-04	4.80E-04	4.80E-04	4.61E-04	4.61E-04	4.60E-04	4.60E-04	6.04E-04	6.04E-04	5.84E-04

Notes:

All concentrations are in g/m^2/year.

Appendix V6-5G. Predicted Metal Concentration Associated with Fugitive Dust during the Operational Phase at Soil Sites within the Human Health Local Study Area

Soil Sample Sites	D43 (10-20)	D54 (0-10)	D54 (10-20)	D57 (0-10)	D57 (10-20)	D59 (0-10)	D59 (10-20)	D61 (0-10)	D61 (10-20)	D70 (0-10)	D70 (10-20)	D72 (0-10)	D72 (10-20)	D76 (0-10)	D76 (10-20)
Dust Deposition	**9.90**	**9.04**	**9.04**	**7.81**	**7.81**	**7.68**	**7.68**	**7.69**	**7.69**	**7.80**	**7.80**	**11.7**	**11.7**	**9.18**	**9.18**
Metal Dustfall Deposition															
Aluminum	2.87E-01	2.62E-01	2.62E-01	2.26E-01	2.26E-01	2.23E-01	2.23E-01	2.23E-01	2.23E-01	3.74E-02	3.74E-02	3.40E-01	3.40E-01	2.66E-01	2.66E-01
Antimony	9.90E-07	9.04E-07	9.04E-07	7.81E-07	7.81E-07	7.68E-07	7.68E-07	7.69E-07	7.69E-07	5.46E-06	5.46E-06	1.17E-06	1.17E-06	9.18E-07	9.18E-07
Arsenic	4.95E-06	4.52E-06	4.52E-06	3.90E-06	3.90E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	3.04E-03	3.04E-03	5.87E-06	5.87E-06	4.59E-06	4.59E-06
Barium	2.97E-05	2.71E-05	2.71E-05	2.34E-05	2.34E-05	2.30E-05	2.30E-05	2.31E-05	2.31E-05	9.36E-05	9.36E-05	3.52E-05	3.52E-05	2.75E-05	2.75E-05
Beryllium	3.27E-06	2.98E-06	2.98E-06	2.58E-06	2.58E-06	2.53E-06	2.53E-06	2.54E-06	2.54E-06	2.57E-06	2.57E-06	3.87E-06	3.87E-06	3.03E-06	3.03E-06
Bismuth	9.90E-07	9.04E-07	9.04E-07	7.81E-07	7.81E-07	7.68E-07	7.68E-07	7.69E-07	7.69E-07	7.80E-07	7.80E-07	1.17E-06	1.17E-06	9.18E-07	9.18E-07
Cadmium	9.90E-07	9.04E-07	9.04E-07	7.81E-07	7.81E-07	7.68E-07	7.68E-07	7.69E-07	7.69E-07	7.80E-07	7.80E-07	1.17E-06	1.17E-06	9.18E-07	9.18E-07
Calcium	3.17E-01	2.89E-01	2.89E-01	2.50E-01	2.50E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	5.30E-01	5.30E-01	3.75E-01	3.75E-01	2.94E-01	2.94E-01
Chromium	1.48E-03	1.36E-03	1.36E-03	1.17E-03	1.17E-03	1.15E-03	1.15E-03	1.15E-03	1.15E-03	1.01E-03	1.01E-03	1.76E-03	1.76E-03	1.38E-03	1.38E-03
Cobalt	3.46E-04	3.16E-04	3.16E-04	2.73E-04	2.73E-04	2.69E-04	2.69E-04	2.69E-04	2.69E-04	3.51E-04	3.51E-04	4.11E-04	4.11E-04	3.21E-04	3.21E-04
Copper	1.09E-03	9.94E-04	9.94E-04	8.59E-04	8.59E-04	8.45E-04	8.45E-04	8.45E-04	8.45E-04	6.63E-04	6.63E-04	1.29E-03	1.29E-03	1.01E-03	1.01E-03
Iron	4.85E-01	4.43E-01	4.43E-01	3.82E-01	3.82E-01	3.76E-01	3.76E-01	3.77E-01	3.77E-01	5.07E-01	5.07E-01	5.75E-01	5.75E-01	4.50E-01	4.50E-01
Lead	5.94E-06	5.42E-06	5.42E-06	4.68E-06	4.68E-06	4.61E-06	4.61E-06	4.61E-06	4.61E-06	1.72E-05	1.72E-05	7.04E-06	7.04E-06	5.51E-06	5.51E-06
Magnesium	2.28E-01	2.08E-01	2.08E-01	1.80E-01	1.80E-01	1.77E-01	1.77E-01	1.77E-01	1.77E-01	2.50E-01	2.50E-01	2.70E-01	2.70E-01	2.11E-01	2.11E-01
Manganese	9.21E-03	8.41E-03	8.41E-03	7.26E-03	7.26E-03	7.14E-03	7.14E-03	7.15E-03	7.15E-03	1.09E-02	1.09E-02	1.09E-02	1.09E-02	8.54E-03	8.54E-03
Mercury	9.90E-08	9.04E-08	9.04E-08	7.81E-08	7.81E-08	7.68E-08	7.68E-08	7.69E-08	7.69E-08	7.80E-08	7.80E-08	1.17E-07	1.17E-07	9.18E-08	9.18E-08
Molybdenum	4.95E-06	4.52E-06	4.52E-06	3.90E-06	3.90E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	1.01E-05	1.01E-05	5.87E-06	5.87E-06	4.59E-06	4.59E-06
Nickel	7.13E-04	6.51E-04	6.51E-04	5.62E-04	5.62E-04	5.53E-04	5.53E-04	5.53E-04	5.53E-04	1.56E-03	1.56E-03	8.45E-04	8.45E-04	6.61E-04	6.61E-04
Phosphorus	2.18E-03	1.99E-03	1.99E-03	1.72E-03	1.72E-03	1.69E-03	1.69E-03	1.69E-03	1.69E-03	1.09E-03	1.09E-03	2.58E-03	2.58E-03	2.02E-03	2.02E-03
Potassium	9.90E-04	9.04E-04	9.04E-04	7.81E-04	7.81E-04	7.68E-04	7.68E-04	7.69E-04	7.69E-04	3.12E-03	3.12E-03	1.17E-03	1.17E-03	9.18E-04	9.18E-04
Selenium	4.95E-06	4.52E-06	4.52E-06	3.90E-06	3.90E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	6.24E-06	6.24E-06	5.87E-06	5.87E-06	4.59E-06	4.59E-06
Silver	9.90E-07	9.04E-07	9.04E-07	7.81E-07	7.81E-07	7.68E-07	7.68E-07	7.69E-07	7.69E-07	4.68E-06	4.68E-06	1.17E-06	1.17E-06	9.18E-07	9.18E-07
Sodium	2.47E-03	2.26E-03	2.26E-03	1.95E-03	1.95E-03	1.92E-03	1.92E-03	1.92E-03	1.92E-03	3.12E-03	3.12E-03	2.93E-03	2.93E-03	2.30E-03	2.30E-03
Strontium	1.39E-04	1.27E-04	1.27E-04	1.09E-04	1.09E-04	1.08E-04	1.08E-04	1.08E-04	1.08E-04	4.60E-04	4.60E-04	1.64E-04	1.64E-04	1.29E-04	1.29E-04
Thallium	9.90E-07	9.04E-07	9.04E-07	7.81E-07	7.81E-07	7.68E-07	7.68E-07	7.69E-07	7.69E-07	7.80E-07	7.80E-07	1.17E-06	1.17E-06	9.18E-07	9.18E-07
Tin	1.98E-05	1.81E-05	1.81E-05	1.56E-05	1.56E-05	1.54E-05	1.54E-05	1.54E-05	1.54E-05	1.56E-05	1.56E-05	2.35E-05	2.35E-05	1.84E-05	1.84E-05
Titanium	2.18E-02	1.99E-02	1.99E-02	1.72E-02	1.72E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	7.80E-05	7.80E-05	2.58E-02	2.58E-02	2.02E-02	2.02E-02
Uranium	9.90E-07	9.04E-07	9.04E-07	7.81E-07	7.81E-07	7.68E-07	7.68E-07	7.69E-07	7.69E-07	7.80E-07	7.80E-07	1.17E-06	1.17E-06	9.18E-07	9.18E-07
Vanadium	9.90E-04	9.04E-04	9.04E-04	7.81E-04	7.81E-04	7.68E-04	7.68E-04	7.69E-04	7.69E-04	2.11E-04	2.11E-04	1.17E-03	1.17E-03	9.18E-04	9.18E-04
Zinc	5.84E-04	5.33E-04	5.33E-04	4.61E-04	4.61E-04	4.53E-04	4.53E-04	4.53E-04	4.53E-04	4.68E-04	4.68E-04	6.92E-04	6.92E-04	5.42E-04	5.42E-04

Notes:

All concentrations are in g/m^2/year.

Appendix V6-5G. Predicted Metal Concentration Associated with Fugitive Dust during the Operational Phase at Soil Sites within the Human Health Local Study Area

Soil Sample Sites	D108 (0-10)	D108 (10-20)	D109 (0-10)	D109 (10-20)	D96 (0-10)	D96 (10-20)	D99 (0-10)	D99 (10-20)	D82 (0-10)	D82 (10-20)	D88 (0-10)	D88 (10-20)	D65 (0-10)	D65 (10-20)	D119 (0-10)
Dust Deposition	10.44	10.44	8.13	8.13	8.33	8.33	8.50	8.50	8.90	8.90	9.90	9.90	8.00	8.00	8.13
Metal Dustfall Deposition															
Aluminum	3.03E-01	3.03E-01	2.36E-01	2.36E-01	2.42E-01	2.42E-01	2.47E-01	2.47E-01	2.58E-01	2.58E-01	2.87E-01	2.87E-01	2.32E-01	2.32E-01	2.36E-01
Antimony	1.04E-06	1.04E-06	8.13E-07	8.13E-07	8.33E-07	8.33E-07	8.50E-07	8.50E-07	8.90E-07	8.90E-07	9.90E-07	9.90E-07	8.00E-07	8.00E-07	8.13E-07
Arsenic	5.22E-06	5.22E-06	4.06E-06	4.06E-06	4.17E-06	4.17E-06	4.25E-06	4.25E-06	4.45E-06	4.45E-06	4.95E-06	4.95E-06	4.00E-06	4.00E-06	4.06E-06
Barium	3.13E-05	3.13E-05	2.44E-05	2.44E-05	2.50E-05	2.50E-05	2.55E-05	2.55E-05	2.67E-05	2.67E-05	2.97E-05	2.97E-05	2.40E-05	2.40E-05	2.44E-05
Beryllium	3.45E-06	3.45E-06	2.68E-06	2.68E-06	2.75E-06	2.75E-06	2.81E-06	2.81E-06	2.94E-06	2.94E-06	3.27E-06	3.27E-06	2.64E-06	2.64E-06	2.68E-06
Bismuth	1.04E-06	1.04E-06	8.13E-07	8.13E-07	8.33E-07	8.33E-07	8.50E-07	8.50E-07	8.90E-07	8.90E-07	9.90E-07	9.90E-07	8.00E-07	8.00E-07	8.13E-07
Cadmium	1.04E-06	1.04E-06	8.13E-07	8.13E-07	8.33E-07	8.33E-07	8.50E-07	8.50E-07	8.90E-07	8.90E-07	9.90E-07	9.90E-07	8.00E-07	8.00E-07	8.13E-07
Calcium	3.34E-01	3.34E-01	2.60E-01	2.60E-01	2.67E-01	2.67E-01	2.72E-01	2.72E-01	2.85E-01	2.85E-01	3.17E-01	3.17E-01	2.56E-01	2.56E-01	2.60E-01
Chromium	1.57E-03	1.57E-03	1.22E-03	1.22E-03	1.25E-03	1.25E-03	1.28E-03	1.28E-03	1.34E-03	1.34E-03	1.48E-03	1.48E-03	1.20E-03	1.20E-03	1.22E-03
Cobalt	3.65E-04	3.65E-04	2.84E-04	2.84E-04	2.92E-04	2.92E-04	2.98E-04	2.98E-04	3.12E-04	3.12E-04	3.46E-04	3.46E-04	2.80E-04	2.80E-04	2.84E-04
Copper	1.15E-03	1.15E-03	8.94E-04	8.94E-04	9.16E-04	9.16E-04	9.35E-04	9.35E-04	9.79E-04	9.79E-04	1.09E-03	1.09E-03	8.81E-04	8.81E-04	8.94E-04
Iron	5.12E-01	5.12E-01	3.98E-01	3.98E-01	4.08E-01	4.08E-01	4.17E-01	4.17E-01	4.36E-01	4.36E-01	4.85E-01	4.85E-01	3.92E-01	3.92E-01	3.98E-01
Lead	6.26E-06	6.26E-06	4.88E-06	4.88E-06	5.00E-06	5.00E-06	5.10E-06	5.10E-06	5.34E-06	5.34E-06	5.94E-06	5.94E-06	4.80E-06	4.80E-06	4.88E-06
Magnesium	2.40E-01	2.40E-01	1.87E-01	1.87E-01	1.92E-01	1.92E-01	1.96E-01	1.96E-01	2.05E-01	2.05E-01	2.28E-01	2.28E-01	1.84E-01	1.84E-01	1.87E-01
Manganese	9.71E-03	9.71E-03	7.56E-03	7.56E-03	7.75E-03	7.75E-03	7.91E-03	7.91E-03	8.28E-03	8.28E-03	9.21E-03	9.21E-03	7.44E-03	7.44E-03	7.56E-03
Mercury	1.04E-07	1.04E-07	8.13E-08	8.13E-08	8.33E-08	8.33E-08	8.50E-08	8.50E-08	8.90E-08	8.90E-08	9.90E-08	9.90E-08	8.00E-08	8.00E-08	8.13E-08
Molybdenum	5.22E-06	5.22E-06	4.06E-06	4.06E-06	4.17E-06	4.17E-06	4.25E-06	4.25E-06	4.45E-06	4.45E-06	4.95E-06	4.95E-06	4.00E-06	4.00E-06	4.06E-06
Nickel	7.52E-04	7.52E-04	5.85E-04	5.85E-04	6.00E-04	6.00E-04	6.12E-04	6.12E-04	6.41E-04	6.41E-04	7.13E-04	7.13E-04	5.76E-04	5.76E-04	5.85E-04
Phosphorus	2.30E-03	2.30E-03	1.79E-03	1.79E-03	1.83E-03	1.83E-03	1.87E-03	1.87E-03	1.96E-03	1.96E-03	2.18E-03	2.18E-03	1.76E-03	1.76E-03	1.79E-03
Potassium	1.04E-03	1.04E-03	8.13E-04	8.13E-04	8.33E-04	8.33E-04	8.50E-04	8.50E-04	8.90E-04	8.90E-04	9.90E-04	9.90E-04	8.00E-04	8.00E-04	8.13E-04
Selenium	5.22E-06	5.22E-06	4.06E-06	4.06E-06	4.17E-06	4.17E-06	4.25E-06	4.25E-06	4.45E-06	4.45E-06	4.95E-06	4.95E-06	4.00E-06	4.00E-06	4.06E-06
Silver	1.04E-06	1.04E-06	8.13E-07	8.13E-07	8.33E-07	8.33E-07	8.50E-07	8.50E-07	8.90E-07	8.90E-07	9.90E-07	9.90E-07	8.00E-07	8.00E-07	8.13E-07
Sodium	2.61E-03	2.61E-03	2.03E-03	2.03E-03	2.08E-03	2.08E-03	2.13E-03	2.13E-03	2.23E-03	2.23E-03	2.47E-03	2.47E-03	2.00E-03	2.00E-03	2.03E-03
Strontium	1.46E-04	1.46E-04	1.14E-04	1.14E-04	1.17E-04	1.17E-04	1.19E-04	1.19E-04	1.25E-04	1.25E-04	1.39E-04	1.39E-04	1.12E-04	1.12E-04	1.14E-04
Thallium	1.04E-06	1.04E-06	8.13E-07	8.13E-07	8.33E-07	8.33E-07	8.50E-07	8.50E-07	8.90E-07	8.90E-07	9.90E-07	9.90E-07	8.00E-07	8.00E-07	8.13E-07
Tin	2.09E-05	2.09E-05	1.63E-05	1.63E-05	1.67E-05	1.67E-05	1.70E-05	1.70E-05	1.78E-05	1.78E-05	1.98E-05	1.98E-05	1.60E-05	1.60E-05	1.63E-05
Titanium	2.30E-02	2.30E-02	1.79E-02	1.79E-02	1.83E-02	1.83E-02	1.87E-02	1.87E-02	1.96E-02	1.96E-02	2.18E-02	2.18E-02	1.76E-02	1.76E-02	1.79E-02
Uranium	1.04E-06	1.04E-06	8.13E-07	8.13E-07	8.33E-07	8.33E-07	8.50E-07	8.50E-07	8.90E-07	8.90E-07	9.90E-07	9.90E-07	8.00E-07	8.00E-07	8.13E-07
Vanadium	1.04E-03	1.04E-03	8.13E-04	8.13E-04	8.33E-04	8.33E-04	8.50E-04	8.50E-04	8.90E-04	8.90E-04	9.90E-04	9.90E-04	8.00E-04	8.00E-04	8.13E-04
Zinc	6.16E-04	6.16E-04	4.79E-04	4.79E-04	4.92E-04	4.92E-04	5.02E-04	5.02E-04	5.25E-04	5.25E-04	5.84E-04	5.84E-04	4.72E-04	4.72E-04	4.79E-04

Notes:

All concentrations are in g/m^2/year.

Appendix V6-5G. Predicted Metal Concentration Associated with Fugitive Dust during the Operational Phase at Soil Sites within the Human Health Local Study Area

Soil Sample Sites	D119 (10-20)	D122 (0-10)	D122 (10-20)	D132 (0-10)	D132 (10-20)	8 (0-10)	8 (10-20)	13 (0-10)	13 (10-20)	14 (0-10)	14 (10-20)	18 (0-10)	18 (10-20)	21 (0-10)	21 (10-20)
Dust Deposition	**8.13**	**7.84**	**7.84**	**7.75**	**7.75**	**11.04**	**11.04**	**8.16**	**8.16**	**8.79**	**8.79**	**9.08**	**9.08**	**9.53**	**9.53**
Metal Dustfall Deposition															
Aluminum	2.36E-01	2.27E-01	2.27E-01	2.25E-01	2.25E-01	3.20E-01	3.20E-01	2.37E-01	2.37E-01	9.67E-02	9.67E-02	1.27E-01	1.27E-01	2.76E-01	2.76E-01
Antimony	8.13E-07	7.84E-07	7.84E-07	7.75E-07	7.75E-07	1.10E-06	1.10E-06	8.16E-07	8.16E-07	8.79E-06	8.79E-06	9.08E-07	9.08E-07	9.53E-07	9.53E-07
Arsenic	4.06E-06	3.92E-06	3.92E-06	3.87E-06	3.87E-06	5.52E-06	5.52E-06	4.08E-06	4.08E-06	4.13E-03	4.13E-03	5.45E-05	5.45E-05	4.76E-06	4.76E-06
Barium	2.44E-05	2.35E-05	2.35E-05	2.32E-05	2.32E-05	3.31E-05	3.31E-05	2.45E-05	2.45E-05	1.41E-04	1.41E-04	1.27E-04	1.27E-04	2.86E-05	2.86E-05
Beryllium	2.68E-06	2.59E-06	2.59E-06	2.56E-06	2.56E-06	3.64E-06	3.64E-06	2.69E-06	2.69E-06	1.76E-05	1.76E-05	3.00E-06	3.00E-06	3.14E-06	3.14E-06
Bismuth	8.13E-07	7.84E-07	7.84E-07	7.75E-07	7.75E-07	1.10E-06	1.10E-06	8.16E-07	8.16E-07	8.79E-07	8.79E-07	9.08E-07	9.08E-07	9.53E-07	9.53E-07
Cadmium	8.13E-07	7.84E-07	7.84E-07	7.75E-07	7.75E-07	1.10E-06	1.10E-06	8.16E-07	8.16E-07	8.79E-07	8.79E-07	9.08E-07	9.08E-07	9.53E-07	9.53E-07
Calcium	2.60E-01	2.51E-01	2.51E-01	2.48E-01	2.48E-01	3.53E-01	3.53E-01	2.61E-01	2.61E-01	5.98E-01	5.98E-01	3.36E-01	3.36E-01	3.05E-01	3.05E-01
Chromium	1.22E-03	1.18E-03	1.18E-03	1.16E-03	1.16E-03	1.66E-03	1.66E-03	1.22E-03	1.22E-03	1.58E-03	1.58E-03	1.18E-03	1.18E-03	1.43E-03	1.43E-03
Cobalt	2.84E-04	2.74E-04	2.74E-04	2.71E-04	2.71E-04	3.86E-04	3.86E-04	2.86E-04	2.86E-04	5.01E-04	5.01E-04	2.91E-04	2.91E-04	3.34E-04	3.34E-04
Copper	8.94E-04	8.62E-04	8.62E-04	8.52E-04	8.52E-04	1.21E-03	1.21E-03	8.98E-04	8.98E-04	1.05E-03	1.05E-03	7.45E-04	7.45E-04	1.05E-03	1.05E-03
Iron	3.98E-01	3.84E-01	3.84E-01	3.80E-01	3.80E-01	5.41E-01	5.41E-01	4.00E-01	4.00E-01	5.71E-01	5.71E-01	4.18E-01	4.18E-01	4.67E-01	4.67E-01
Lead	4.88E-06	4.70E-06	4.70E-06	4.65E-06	4.65E-06	6.62E-06	6.62E-06	4.90E-06	4.90E-06	3.87E-05	3.87E-05	9.99E-06	9.99E-06	5.72E-06	5.72E-06
Magnesium	1.87E-01	1.80E-01	1.80E-01	1.78E-01	1.78E-01	2.54E-01	2.54E-01	1.88E-01	1.88E-01	3.08E-01	3.08E-01	2.18E-01	2.18E-01	2.19E-01	2.19E-01
Manganese	7.56E-03	7.29E-03	7.29E-03	7.21E-03	7.21E-03	1.03E-02	1.03E-02	7.59E-03	7.59E-03	1.32E-02	1.32E-02	8.26E-03	8.26E-03	8.86E-03	8.86E-03
Mercury	8.13E-08	7.84E-08	7.84E-08	7.75E-08	7.75E-08	1.10E-07	1.10E-07	8.16E-08	8.16E-08	8.79E-08	8.79E-08	9.08E-08	9.08E-08	9.53E-08	9.53E-08
Molybdenum	4.06E-06	3.92E-06	3.92E-06	3.87E-06	3.87E-06	5.52E-06	5.52E-06	4.08E-06	4.08E-06	1.14E-05	1.14E-05	2.72E-06	2.72E-06	4.76E-06	4.76E-06
Nickel	5.85E-04	5.64E-04	5.64E-04	5.58E-04	5.58E-04	7.95E-04	7.95E-04	5.88E-04	5.88E-04	2.72E-03	2.72E-03	6.81E-04	6.81E-04	6.86E-04	6.86E-04
Phosphorus	1.79E-03	1.72E-03	1.72E-03	1.70E-03	1.70E-03	2.43E-03	2.43E-03	1.80E-03	1.80E-03	3.16E-03	3.16E-03	1.91E-03	1.91E-03	2.10E-03	2.10E-03
Potassium	8.13E-04	7.84E-04	7.84E-04	7.75E-04	7.75E-04	1.10E-03	1.10E-03	8.16E-04	8.16E-04	8.79E-03	8.79E-03	5.45E-03	5.45E-03	9.53E-04	9.53E-04
Selenium	4.06E-06	3.92E-06	3.92E-06	3.87E-06	3.87E-06	5.52E-06	5.52E-06	4.08E-06	4.08E-06	7.91E-06	7.91E-06	4.54E-06	4.54E-06	4.76E-06	4.76E-06
Silver	8.13E-07	7.84E-07	7.84E-07	7.75E-07	7.75E-07	1.10E-06	1.10E-06	8.16E-07	8.16E-07	1.41E-05	1.41E-05	9.08E-07	9.08E-07	9.53E-07	9.53E-07
Sodium	2.03E-03	1.96E-03	1.96E-03	1.94E-03	1.94E-03	2.76E-03	2.76E-03	2.04E-03	2.04E-03	3.51E-03	3.51E-03	5.99E-03	5.99E-03	2.38E-03	2.38E-03
Strontium	1.14E-04	1.10E-04	1.10E-04	1.08E-04	1.08E-04	1.55E-04	1.55E-04	1.14E-04	1.14E-04	1.14E-03	1.14E-03	5.45E-04	5.45E-04	1.33E-04	1.33E-04
Thallium	8.13E-07	7.84E-07	7.84E-07	7.75E-07	7.75E-07	1.10E-06	1.10E-06	8.16E-07	8.16E-07	8.79E-07	8.79E-07	9.08E-07	9.08E-07	9.53E-07	9.53E-07
Tin	1.63E-05	1.57E-05	1.57E-05	1.55E-05	1.55E-05	2.21E-05	2.21E-05	1.63E-05	1.63E-05	1.76E-05	1.76E-05	1.82E-05	1.82E-05	1.91E-05	1.91E-05
Titanium	1.79E-02	1.72E-02	1.72E-02	1.70E-02	1.70E-02	2.43E-02	2.43E-02	1.80E-02	1.80E-02	8.79E-05	8.79E-05	9.08E-05	9.08E-05	2.10E-02	2.10E-02
Uranium	8.13E-07	7.84E-07	7.84E-07	7.75E-07	7.75E-07	1.10E-06	1.10E-06	8.16E-07	8.16E-07	8.79E-07	8.79E-07	9.08E-07	9.08E-07	9.53E-07	9.53E-07
Vanadium	8.13E-04	7.84E-04	7.84E-04	7.75E-04	7.75E-04	1.10E-03	1.10E-03	8.16E-04	8.16E-04	4.74E-04	4.74E-04	4.36E-04	4.36E-04	9.53E-04	9.53E-04
Zinc	4.79E-04	4.63E-04	4.63E-04	4.57E-04	4.57E-04	6.51E-04	6.51E-04	4.82E-04	4.82E-04	5.27E-04	5.27E-04	4.90E-04	4.90E-04	5.62E-04	5.62E-04

Notes:

All concentrations are in g/m ^{2} /year.

Appendix V6-5G. Predicted Metal Concentration Associated with Fugitive Dust during the Operational Phase at Soil Sites within the Human Health Local Study Area

Soil Sample Sites	22 (0-10)	22 (10-20)	23 (0-10)	23 (10-20)	29 (0-10)	29 (10-20)	11 (0-10)	11 (10-20)	16 (0-10)	16 (10-20)	REFA-01	REFA-02	REFA-03	REFB-01	REFB-02
Dust Deposition	9.07	9.07	9.43	9.43	20.0	20.0	7.93	7.93	8.83	8.83	8.09	8.15	8.09	7.72	7.72
Metal Dustfall Deposition															
Aluminum	2.63E-01	2.63E-01	2.74E-01	2.74E-01	2.20E-01	2.20E-01	2.30E-01	2.30E-01	1.24E-01	1.24E-01	2.35E-01	2.36E-01	2.35E-01	2.24E-01	2.24E-01
Antimony	9.07E-07	9.07E-07	9.43E-07	9.43E-07	2.00E-05	2.00E-05	7.93E-07	7.93E-07	8.83E-07	8.83E-07	8.09E-07	8.15E-07	8.09E-07	7.72E-07	7.72E-07
Arsenic	4.53E-06	4.53E-06	4.72E-06	4.72E-06	9.39E-03	9.39E-03	3.96E-06	3.96E-06	5.30E-05	5.30E-05	4.05E-06	4.08E-06	4.05E-06	3.86E-06	3.86E-06
Barium	2.72E-05	2.72E-05	2.83E-05	2.83E-05	3.20E-04	3.20E-04	2.38E-05	2.38E-05	1.24E-04	1.24E-04	2.43E-05	2.45E-05	2.43E-05	2.32E-05	2.32E-05
Beryllium	2.99E-06	2.99E-06	3.11E-06	3.11E-06	4.00E-05	4.00E-05	2.62E-06	2.62E-06	2.91E-06	2.91E-06	2.67E-06	2.69E-06	2.67E-06	2.55E-06	2.55E-06
Bismuth	9.07E-07	9.07E-07	9.43E-07	9.43E-07	2.00E-06	2.00E-06	7.93E-07	7.93E-07	8.83E-07	8.83E-07	8.09E-07	8.15E-07	8.09E-07	7.72E-07	7.72E-07
Cadmium	9.07E-07	9.07E-07	9.43E-07	9.43E-07	2.00E-06	2.00E-06	7.93E-07	7.93E-07	8.83E-07	8.83E-07	8.09E-07	8.15E-07	8.09E-07	7.72E-07	7.72E-07
Calcium	2.90E-01	2.90E-01	3.02E-01	3.02E-01	1.36E+00	1.36E+00	2.54E-01	2.54E-01	3.27E-01	3.27E-01	2.59E-01	2.61E-01	2.59E-01	2.47E-01	2.47E-01
Chromium	1.36E-03	1.36E-03	1.42E-03	1.42E-03	3.60E-03	3.60E-03	1.19E-03	1.19E-03	1.15E-03	1.15E-03	1.21E-03	1.22E-03	1.21E-03	1.16E-03	1.16E-03
Cobalt	3.17E-04	3.17E-04	3.30E-04	3.30E-04	1.14E-03	1.14E-03	2.77E-04	2.77E-04	2.83E-04	2.83E-04	2.83E-04	2.85E-04	2.83E-04	2.70E-04	2.70E-04
Copper	9.98E-04	9.98E-04	1.04E-03	1.04E-03	2.40E-03	2.40E-03	8.72E-04	8.72E-04	7.24E-04	7.24E-04	8.90E-04	8.97E-04	8.90E-04	8.49E-04	8.49E-04
Iron	4.44E-01	4.44E-01	4.62E-01	4.62E-01	1.30E+00	1.30E+00	3.88E-01	3.88E-01	4.06E-01	4.06E-01	3.97E-01	3.99E-01	3.97E-01	3.78E-01	3.78E-01
Lead	5.44E-06	5.44E-06	5.66E-06	5.66E-06	8.79E-05	8.79E-05	4.76E-06	4.76E-06	9.71E-06	9.71E-06	4.86E-06	4.89E-06	4.86E-06	4.63E-06	4.63E-06
Magnesium	2.09E-01	2.09E-01	2.17E-01	2.17E-01	6.99E-01	6.99E-01	1.82E-01	1.82E-01	2.12E-01	2.12E-01	1.86E-01	1.87E-01	1.86E-01	1.78E-01	1.78E-01
Manganese	8.43E-03	8.43E-03	8.77E-03	8.77E-03	3.00E-02	3.00E-02	7.37E-03	7.37E-03	8.03E-03	8.03E-03	7.53E-03	7.58E-03	7.53E-03	7.18E-03	7.18E-03
Mercury	9.07E-08	9.07E-08	9.43E-08	9.43E-08	2.00E-07	2.00E-07	7.93E-08	7.93E-08	8.83E-08	8.83E-08	8.09E-08	8.15E-08	8.09E-08	7.72E-08	7.72E-08
Molybdenum	4.53E-06	4.53E-06	4.72E-06	4.72E-06	2.60E-05	2.60E-05	3.96E-06	3.96E-06	2.65E-06	2.65E-06	4.05E-06	4.08E-06	4.05E-06	3.86E-06	3.86E-06
Nickel	6.53E-04	6.53E-04	6.79E-04	6.79E-04	6.19E-03	6.19E-03	5.71E-04	5.71E-04	6.62E-04	6.62E-04	5.83E-04	5.87E-04	5.83E-04	5.56E-04	5.56E-04
Phosphorus	2.00E-03	2.00E-03	2.08E-03	2.08E-03	7.19E-03	7.19E-03	1.74E-03	1.74E-03	1.85E-03	1.85E-03	1.78E-03	1.79E-03	1.78E-03	1.70E-03	1.70E-03
Potassium	9.07E-04	9.07E-04	9.43E-04	9.43E-04	2.00E-02	2.00E-02	7.93E-04	7.93E-04	5.30E-03	5.30E-03	8.09E-04	8.15E-04	8.09E-04	7.72E-04	7.72E-04
Selenium	4.53E-06	4.53E-06	4.72E-06	4.72E-06	1.80E-05	1.80E-05	3.96E-06	3.96E-06	4.41E-06	4.41E-06	4.05E-06	4.08E-06	4.05E-06	3.86E-06	3.86E-06
Silver	9.07E-07	9.07E-07	9.43E-07	9.43E-07	3.20E-05	3.20E-05	7.93E-07	7.93E-07	8.83E-07	8.83E-07	8.09E-07	8.15E-07	8.09E-07	7.72E-07	7.72E-07
Sodium	2.27E-03	2.27E-03	2.36E-03	2.36E-03	7.99E-03	7.99E-03	1.98E-03	1.98E-03	5.83E-03	5.83E-03	2.02E-03	2.04E-03	2.02E-03	1.93E-03	1.93E-03
Strontium	1.27E-04	1.27E-04	1.32E-04	1.32E-04	2.60E-03	2.60E-03	1.11E-04	1.11E-04	5.30E-04	5.30E-04	1.13E-04	1.14E-04	1.13E-04	1.08E-04	1.08E-04
Thallium	9.07E-07	9.07E-07	9.43E-07	9.43E-07	2.00E-06	2.00E-06	7.93E-07	7.93E-07	8.83E-07	8.83E-07	8.09E-07	8.15E-07	8.09E-07	7.72E-07	7.72E-07
Tin	1.81E-05	1.81E-05	1.89E-05	1.89E-05	4.00E-05	4.00E-05	1.59E-05	1.59E-05	1.77E-05	1.77E-05	1.62E-05	1.63E-05	1.62E-05	1.54E-05	1.54E-05
Titanium	2.00E-02	2.00E-02	2.08E-02	2.08E-02	2.00E-04	2.00E-04	1.74E-02	1.74E-02	8.83E-05	8.83E-05	1.78E-02	1.79E-02	1.78E-02	1.70E-02	1.70E-02
Uranium	9.07E-07	9.07E-07	9.43E-07	9.43E-07	2.00E-06	2.00E-06	7.93E-07	7.93E-07	8.83E-07	8.83E-07	8.09E-07	8.15E-07	8.09E-07	7.72E-07	7.72E-07
Vanadium	9.07E-04	9.07E-04	9.43E-04	9.43E-04	1.08E-03	1.08E-03	7.93E-04	7.93E-04	4.24E-04	4.24E-04	8.09E-04	8.15E-04	8.09E-04	7.72E-04	7.72E-04
Zinc	5.35E-04	5.35E-04	5.57E-04	5.57E-04	1.20E-03	1.20E-03	4.68E-04	4.68E-04	4.77E-04	4.77E-04	4.77E-04	4.81E-04	4.78E-04	4.55E-04	4.55E-04

Notes:

All concentrations are in g/m^2/year.

Appendix V6-5G. Predicted Metal Concentration Associated with Fugitive Dust during the Operational Phase at Soil Sites within the Human Health Local Study Area

Soil Sample Sites	REFB-03	REFC-01	REFC-02	REFC-03	LSA-01	LSA-02	LSA-03	LSA-04	LSA-05	LSA-06	LSA-07A	LSA-07B	LSA-08	LSA-09A	LSA-09B
Dust Deposition	7.72	7.66	7.66	7.66	9.26	8.18	9.10	10.52	10.24	9.04	8.62	8.62	10.24	8.06	8.06
Metal Dustfall Deposition															
Aluminum	2.24E-01	2.22E-01	2.22E-01	2.22E-01	2.69E-01	2.37E-01	2.64E-01	3.05E-01	2.97E-01	2.62E-01	2.50E-01	2.50E-01	2.97E-01	2.34E-01	2.34E-01
Antimony	7.72E-07	7.66E-07	7.66E-07	7.66E-07	9.26E-07	8.18E-07	9.10E-07	1.05E-06	1.02E-06	9.04E-07	8.62E-07	8.62E-07	1.02E-06	8.06E-07	8.06E-07
Arsenic	3.86E-06	3.83E-06	3.83E-06	3.83E-06	4.63E-06	4.09E-06	4.55E-06	5.26E-06	5.12E-06	4.52E-06	4.31E-06	4.31E-06	5.12E-06	4.03E-06	4.03E-06
Barium	2.32E-05	2.30E-05	2.30E-05	2.30E-05	2.78E-05	2.45E-05	2.73E-05	3.16E-05	3.07E-05	2.71E-05	2.59E-05	2.59E-05	3.07E-05	2.42E-05	2.42E-05
Beryllium	2.55E-06	2.53E-06	2.53E-06	2.53E-06	3.06E-06	2.70E-06	3.00E-06	3.47E-06	3.38E-06	2.98E-06	2.85E-06	2.85E-06	3.38E-06	2.66E-06	2.66E-06
Bismuth	7.72E-07	7.66E-07	7.66E-07	7.66E-07	9.26E-07	8.18E-07	9.10E-07	1.05E-06	1.02E-06	9.04E-07	8.62E-07	8.62E-07	1.02E-06	8.06E-07	8.06E-07
Cadmium	7.72E-07	7.66E-07	7.66E-07	7.66E-07	9.26E-07	8.18E-07	9.10E-07	1.05E-06	1.02E-06	9.04E-07	8.62E-07	8.62E-07	1.02E-06	8.06E-07	8.06E-07
Calcium	2.47E-01	2.45E-01	2.45E-01	2.45E-01	2.96E-01	2.62E-01	2.91E-01	3.37E-01	3.28E-01	2.89E-01	2.76E-01	2.76E-01	3.28E-01	2.58E-01	2.58E-01
Chromium	1.16E-03	1.15E-03	1.15E-03	1.15E-03	1.39E-03	1.23E-03	1.37E-03	1.58E-03	1.54E-03	1.36E-03	1.29E-03	1.29E-03	1.54E-03	1.21E-03	1.21E-03
Cobalt	2.70E-04	2.68E-04	2.68E-04	2.68E-04	3.24E-04	2.86E-04	3.19E-04	3.68E-04	3.59E-04	3.16E-04	3.02E-04	3.02E-04	3.59E-04	2.82E-04	2.82E-04
Copper	8.49E-04	8.42E-04	8.43E-04	8.43E-04	1.02E-03	8.99E-04	1.00E-03	1.16E-03	1.13E-03	9.94E-04	9.49E-04	9.49E-04	1.13E-03	8.86E-04	8.86E-04
Iron	3.78E-01	3.75E-01	3.75E-01	3.75E-01	4.54E-01	4.01E-01	4.46E-01	5.15E-01	5.02E-01	4.43E-01	4.23E-01	4.23E-01	5.02E-01	3.95E-01	3.95E-01
Lead	4.63E-06	4.59E-06	4.60E-06	4.60E-06	5.56E-06	4.91E-06	5.46E-06	6.31E-06	6.15E-06	5.42E-06	5.17E-06	5.17E-06	6.15E-06	4.83E-06	4.83E-06
Magnesium	1.78E-01	1.76E-01	1.76E-01	1.76E-01	2.13E-01	1.88E-01	2.09E-01	2.42E-01	2.36E-01	2.08E-01	1.98E-01	1.98E-01	2.36E-01	1.85E-01	1.85E-01
Manganese	7.18E-03	7.12E-03	7.12E-03	7.12E-03	8.62E-03	7.60E-03	8.47E-03	9.78E-03	9.53E-03	8.41E-03	8.02E-03	8.02E-03	9.53E-03	7.49E-03	7.49E-03
Mercury	7.72E-08	7.66E-08	7.66E-08	7.66E-08	9.26E-08	8.18E-08	9.10E-08	1.05E-07	1.02E-07	9.04E-08	8.62E-08	8.62E-08	1.02E-07	8.06E-08	8.06E-08
Molybdenum	3.86E-06	3.83E-06	3.83E-06	3.83E-06	4.63E-06	4.09E-06	4.55E-06	5.26E-06	5.12E-06	4.52E-06	4.31E-06	4.31E-06	5.12E-06	4.03E-06	4.03E-06
Nickel	5.56E-04	5.51E-04	5.51E-04	5.52E-04	6.67E-04	5.89E-04	6.55E-04	7.57E-04	7.38E-04	6.51E-04	6.21E-04	6.21E-04	7.38E-04	5.80E-04	5.80E-04
Phosphorus	1.70E-03	1.68E-03	1.69E-03	1.69E-03	2.04E-03	1.80E-03	2.00E-03	2.31E-03	2.25E-03	1.99E-03	1.90E-03	1.90E-03	2.25E-03	1.77E-03	1.77E-03
Potassium	7.72E-04	7.66E-04	7.66E-04	7.66E-04	9.26E-04	8.18E-04	9.10E-04	1.05E-03	1.02E-03	9.04E-04	8.62E-04	8.62E-04	1.02E-03	8.06E-04	8.06E-04
Selenium	3.86E-06	3.83E-06	3.83E-06	3.83E-06	4.63E-06	4.09E-06	4.55E-06	5.26E-06	5.12E-06	4.52E-06	4.31E-06	4.31E-06	5.12E-06	4.03E-06	4.03E-06
Silver	7.72E-07	7.66E-07	7.66E-07	7.66E-07	9.26E-07	8.18E-07	9.10E-07	1.05E-06	1.02E-06	9.04E-07	8.62E-07	8.62E-07	1.02E-06	8.06E-07	8.06E-07
Sodium	1.93E-03	1.91E-03	1.91E-03	1.92E-03	2.32E-03	2.04E-03	2.28E-03	2.63E-03	2.56E-03	2.26E-03	2.16E-03	2.16E-03	2.56E-03	2.01E-03	2.01E-03
Strontium	1.08E-04	1.07E-04	1.07E-04	1.07E-04	1.30E-04	1.14E-04	1.27E-04	1.47E-04	1.43E-04	1.27E-04	1.21E-04	1.21E-04	1.43E-04	1.13E-04	1.13E-04
Thallium	7.72E-07	7.66E-07	7.66E-07	7.66E-07	9.26E-07	8.18E-07	9.10E-07	1.05E-06	1.02E-06	9.04E-07	8.62E-07	8.62E-07	1.02E-06	8.06E-07	8.06E-07
Tin	1.54E-05	1.53E-05	1.53E-05	1.53E-05	1.85E-05	1.64E-05	1.82E-05	2.10E-05	2.05E-05	1.81E-05	1.72E-05	1.72E-05	2.05E-05	1.61E-05	1.61E-05
Titanium	1.70E-02	1.68E-02	1.69E-02	1.69E-02	2.04E-02	1.80E-02	2.00E-02	2.31E-02	2.25E-02	1.99E-02	1.90E-02	1.90E-02	2.25E-02	1.77E-02	1.77E-02
Uranium	7.72E-07	7.66E-07	7.66E-07	7.66E-07	9.26E-07	8.18E-07	9.10E-07	1.05E-06	1.02E-06	9.04E-07	8.62E-07	8.62E-07	1.02E-06	8.06E-07	8.06E-07
Vanadium	7.72E-04	7.66E-04	7.66E-04	7.66E-04	9.26E-04	8.18E-04	9.10E-04	1.05E-03	1.02E-03	9.04E-04	8.62E-04	8.62E-04	1.02E-03	8.06E-04	8.06E-04
Zinc	4.55E-04	4.52E-04	4.52E-04	4.52E-04	5.47E-04	4.82E-04	5.37E-04	6.21E-04	6.04E-04	5.33E-04	5.09E-04	5.09E-04	6.04E-04	4.75E-04	4.75E-04

Notes:

All concentrations are in g/m^2/year.

Appendix V6-5G. Predicted Metal Concentration Associated with Fugitive Dust during the Operational Phase at Soil Sites within the Human Health Local Study Area

Soil Sample Sites	LSA-10	LSA-11	LSA-12	LSA-13A	LSA-13B	LSA-14	LSA-15	LSA-16	LSA-17	LSA-18	LSA-19	LSA-20	LSA-21
Dust Deposition	8.33	7.79	7.72	10.44	10.44	10.23	9.04	10.56	9.31	7.77	8.25	8.33	8.90
Metal Dustfall Deposition													
Aluminum	2.42E-01	2.26E-01	2.24E-01	3.03E-01	3.03E-01	1.43E-01	2.62E-01	3.06E-01	2.70E-01	2.25E-01	3.96E-02	2.42E-01	2.58E-01
Antimony	8.33E-07	7.79E-07	7.72E-07	1.04E-06	1.04E-06	1.02E-06	9.04E-07	1.06E-06	9.31E-07	7.77E-07	5.77E-06	8.33E-07	8.90E-07
Arsenic	4.17E-06	3.89E-06	3.86E-06	5.22E-06	5.22E-06	6.14E-05	4.52E-06	5.28E-06	4.65E-06	3.89E-06	3.22E-03	4.17E-06	4.45E-06
Barium	2.50E-05	2.34E-05	2.32E-05	3.13E-05	3.13E-05	1.43E-04	2.71E-05	3.17E-05	2.79E-05	2.33E-05	9.90E-05	2.50E-05	2.67E-05
Beryllium	2.75E-06	2.57E-06	2.55E-06	3.45E-06	3.45E-06	3.38E-06	2.98E-06	3.49E-06	3.07E-06	2.57E-06	2.72E-06	2.75E-06	2.94E-06
Bismuth	8.33E-07	7.79E-07	7.72E-07	1.04E-06	1.04E-06	1.02E-06	9.04E-07	1.06E-06	9.31E-07	7.77E-07	8.25E-07	8.33E-07	8.90E-07
Cadmium	8.33E-07	7.79E-07	7.72E-07	1.04E-06	1.04E-06	1.02E-06	9.04E-07	1.06E-06	9.31E-07	7.77E-07	8.25E-07	8.33E-07	8.90E-07
Calcium	2.67E-01	2.49E-01	2.47E-01	3.34E-01	3.34E-01	3.79E-01	2.89E-01	3.38E-01	2.98E-01	2.49E-01	5.61E-01	2.67E-01	2.85E-01
Chromium	1.25E-03	1.17E-03	1.16E-03	1.57E-03	1.57E-03	1.33E-03	1.36E-03	1.58E-03	1.40E-03	1.17E-03	1.07E-03	1.25E-03	1.33E-03
Cobalt	2.92E-04	2.73E-04	2.70E-04	3.65E-04	3.65E-04	3.27E-04	3.16E-04	3.70E-04	3.26E-04	2.72E-04	3.71E-04	2.92E-04	3.11E-04
Copper	9.16E-04	8.57E-04	8.49E-04	1.15E-03	1.15E-03	8.39E-04	9.94E-04	1.16E-03	1.02E-03	8.55E-04	7.01E-04	9.16E-04	9.79E-04
Iron	4.08E-01	3.82E-01	3.78E-01	5.12E-01	5.12E-01	4.71E-01	4.43E-01	5.18E-01	4.56E-01	3.81E-01	5.36E-01	4.08E-01	4.36E-01
Lead	5.00E-06	4.67E-06	4.63E-06	6.26E-06	6.26E-06	1.13E-05	5.42E-06	6.34E-06	5.58E-06	4.66E-06	1.81E-05	5.00E-06	5.34E-06
Magnesium	1.92E-01	1.79E-01	1.78E-01	2.40E-01	2.40E-01	2.46E-01	2.08E-01	2.43E-01	2.14E-01	1.79E-01	2.64E-01	1.92E-01	2.05E-01
Manganese	7.75E-03	7.24E-03	7.18E-03	9.71E-03	9.71E-03	9.31E-03	8.41E-03	9.82E-03	8.65E-03	7.23E-03	1.15E-02	7.75E-03	8.28E-03
Mercury	8.33E-08	7.79E-08	7.72E-08	1.04E-07	1.04E-07	1.02E-07	9.04E-08	1.06E-07	9.31E-08	7.77E-08	8.25E-08	8.33E-08	8.90E-08
Molybdenum	4.17E-06	3.89E-06	3.86E-06	5.22E-06	5.22E-06	3.07E-06	4.52E-06	5.28E-06	4.65E-06	3.89E-06	1.07E-05	4.17E-06	4.45E-06
Nickel	6.00E-04	5.61E-04	5.56E-04	7.52E-04	7.52E-04	7.67E-04	6.51E-04	7.60E-04	6.70E-04	5.60E-04	1.65E-03	6.00E-04	6.41E-04
Phosphorus	1.83E-03	1.71E-03	1.70E-03	2.30E-03	2.30E-03	2.15E-03	1.99E-03	2.32E-03	2.05E-03	1.71E-03	1.15E-03	1.83E-03	1.96E-03
Potassium	8.33E-04	7.79E-04	7.72E-04	1.04E-03	1.04E-03	6.14E-03	9.04E-04	1.06E-03	9.31E-04	7.77E-04	3.30E-03	8.33E-04	8.90E-04
Selenium	4.17E-06	3.89E-06	3.86E-06	5.22E-06	5.22E-06	5.12E-06	4.52E-06	5.28E-06	4.65E-06	3.89E-06	6.60E-06	4.17E-06	4.45E-06
Silver	8.33E-07	7.79E-07	7.72E-07	1.04E-06	1.04E-06	1.02E-06	9.04E-07	1.06E-06	9.31E-07	7.77E-07	4.95E-06	8.33E-07	8.90E-07
Sodium	2.08E-03	1.95E-03	1.93E-03	2.61E-03	2.61E-03	6.75E-03	2.26E-03	2.64E-03	2.33E-03	1.94E-03	3.30E-03	2.08E-03	2.22E-03
Strontium	1.17E-04	1.09E-04	1.08E-04	1.46E-04	1.46E-04	6.14E-04	1.27E-04	1.48E-04	1.30E-04	1.09E-04	4.87E-04	1.17E-04	1.25E-04
Thallium	8.33E-07	7.79E-07	7.72E-07	1.04E-06	1.04E-06	1.02E-06	9.04E-07	1.06E-06	9.31E-07	7.77E-07	8.25E-07	8.33E-07	8.90E-07
Tin	1.67E-05	1.56E-05	1.54E-05	2.09E-05	2.09E-05	2.05E-05	1.81E-05	2.11E-05	1.86E-05	1.55E-05	1.65E-05	1.67E-05	1.78E-05
Titanium	1.83E-02	1.71E-02	1.70E-02	2.30E-02	2.30E-02	1.02E-04	1.99E-02	2.32E-02	2.05E-02	1.71E-02	8.25E-05	1.83E-02	1.96E-02
Uranium	8.33E-07	7.79E-07	7.72E-07	1.04E-06	1.04E-06	1.02E-06	9.04E-07	1.06E-06	9.31E-07	7.77E-07	8.25E-07	8.33E-07	8.90E-07
Vanadium	8.33E-04	7.79E-04	7.72E-04	1.04E-03	1.04E-03	4.91E-04	9.04E-04	1.06E-03	9.31E-04	7.77E-04	2.23E-04	8.33E-04	8.90E-04
Zinc	4.92E-04	4.60E-04	4.55E-04	6.16E-04	6.16E-04	5.53E-04	5.33E-04	6.23E-04	5.49E-04	4.59E-04	4.95E-04	4.92E-04	5.25E-04

Notes:

All concentrations are in g/m ^{2} /year.