

Appendix V6-5G

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



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	4.40	4.40	4.52	4.52	3.32	3.32	0.82	0.82	0.88	0.88	0.87	0.87	0.80	0.80	5.05
Metal Dustfall Deposition															
Aluminum	1.28E-01	1.28E-01	1.31E-01	1.31E-01	9.63E-02	9.63E-02	2.39E-02	2.39E-02	2.55E-02	2.55E-02	2.53E-02	2.53E-02	2.31E-02	2.31E-02	1.46E-01
Antimony	4.41E-07	4.41E-07	4.52E-07	4.52E-07	3.32E-07	3.32E-07	8.23E-08	8.23E-08	8.78E-08	8.78E-08	8.74E-08	8.74E-08	7.97E-08	7.97E-08	5.05E-07
Arsenic	2.21E-06	2.21E-06	2.26E-06	2.26E-06	1.66E-06	1.66E-06	4.12E-07	4.12E-07	4.39E-07	4.39E-07	4.37E-07	4.37E-07	3.98E-07	3.98E-07	2.53E-06
Barium	1.32E-05	1.32E-05	1.36E-05	1.36E-05	9.96E-06	9.96E-06	2.47E-06	2.47E-06	2.63E-06	2.63E-06	2.62E-06	2.62E-06	2.39E-06	2.39E-06	1.52E-05
Beryllium	1.46E-06	1.46E-06	1.49E-06	1.49E-06	1.10E-06	1.10E-06	2.72E-07	2.72E-07	2.90E-07	2.90E-07	2.88E-07	2.88E-07	2.63E-07	2.63E-07	1.67E-06
Bismuth	4.41E-07	4.41E-07	4.52E-07	4.52E-07	3.32E-07	3.32E-07	8.23E-08	8.23E-08	8.78E-08	8.78E-08	8.74E-08	8.74E-08	7.97E-08	7.97E-08	5.05E-07
Cadmium	4.41E-07	4.41E-07	4.52E-07	4.52E-07	3.32E-07	3.32E-07	8.23E-08	8.23E-08	8.78E-08	8.78E-08	8.74E-08	8.74E-08	7.97E-08	7.97E-08	5.05E-07
Calcium	1.41E-01	1.41E-01	1.45E-01	1.45E-01	1.06E-01	1.06E-01	2.63E-02	2.63E-02	2.81E-02	2.81E-02	2.80E-02	2.80E-02	2.55E-02	2.55E-02	1.62E-01
Chromium	6.62E-04	6.62E-04	6.78E-04	6.78E-04	4.98E-04	4.98E-04	1.24E-04	1.24E-04	1.32E-04	1.32E-04	1.31E-04	1.31E-04	1.20E-04	1.20E-04	7.58E-04
Cobalt	1.54E-04	1.54E-04	1.58E-04	1.58E-04	1.16E-04	1.16E-04	2.88E-05	2.88E-05	3.07E-05	3.07E-05	3.06E-05	3.06E-05	2.79E-05	2.79E-05	1.77E-04
Copper	4.85E-04	4.85E-04	4.97E-04	4.97E-04	3.65E-04	3.65E-04	9.06E-05	9.06E-05	9.66E-05	9.66E-05	9.61E-05	9.61E-05	8.76E-05	8.76E-05	5.56E-04
Iron	2.16E-01	2.16E-01	2.21E-01	2.21E-01	1.63E-01	1.63E-01	4.03E-02	4.03E-02	4.30E-02	4.30E-02	4.28E-02	4.28E-02	3.90E-02	3.90E-02	2.47E-01
Lead	2.65E-06	2.65E-06	2.71E-06	2.71E-06	1.99E-06	1.99E-06	4.94E-07	4.94E-07	5.27E-07	5.27E-07	5.24E-07	5.24E-07	4.78E-07	4.78E-07	3.03E-06
Magnesium	1.01E-01	1.01E-01	1.04E-01	1.04E-01	7.64E-02	7.64E-02	1.89E-02	1.89E-02	2.02E-02	2.02E-02	2.01E-02	2.01E-02	1.83E-02	1.83E-02	1.16E-01
Manganese	4.10E-03	4.10E-03	4.20E-03	4.20E-03	3.09E-03	3.09E-03	7.66E-04	7.66E-04	8.17E-04	8.17E-04	8.13E-04	8.13E-04	7.41E-04	7.41E-04	4.70E-03
Mercury	4.41E-08	4.41E-08	4.52E-08	4.52E-08	3.32E-08	3.32E-08	8.23E-09	8.23E-09	8.78E-09	8.78E-09	8.74E-09	8.74E-09	7.97E-09	7.97E-09	5.05E-08
Molybdenum	2.21E-06	2.21E-06	2.26E-06	2.26E-06	1.66E-06	1.66E-06	4.12E-07	4.12E-07	4.39E-07	4.39E-07	4.37E-07	4.37E-07	3.98E-07	3.98E-07	2.53E-06
Nickel	3.18E-04	3.18E-04	3.25E-04	3.25E-04	2.39E-04	2.39E-04	5.93E-05	5.93E-05	6.32E-05	6.32E-05	6.29E-05	6.29E-05	5.74E-05	5.74E-05	3.64E-04
Phosphorus	9.71E-04	9.71E-04	9.94E-04	9.94E-04	7.31E-04	7.31E-04	1.81E-04	1.81E-04	1.93E-04	1.93E-04	1.92E-04	1.92E-04	1.75E-04	1.75E-04	1.11E-03
Potassium	4.41E-04	4.41E-04	4.52E-04	4.52E-04	3.32E-04	3.32E-04	8.23E-05	8.23E-05	8.78E-05	8.78E-05	8.74E-05	8.74E-05	7.97E-05	7.97E-05	5.05E-04
Selenium	2.21E-06	2.21E-06	2.26E-06	2.26E-06	1.66E-06	1.66E-06	4.12E-07	4.12E-07	4.39E-07	4.39E-07	4.37E-07	4.37E-07	3.98E-07	3.98E-07	2.53E-06
Silver	4.41E-07	4.41E-07	4.52E-07	4.52E-07	3.32E-07	3.32E-07	8.23E-08	8.23E-08	8.78E-08	8.78E-08	8.74E-08	8.74E-08	7.97E-08	7.97E-08	5.05E-07
Sodium	1.10E-03	1.10E-03	1.13E-03	1.13E-03	8.30E-04	8.30E-04	2.06E-04	2.06E-04	2.20E-04	2.20E-04	2.18E-04	2.18E-04	1.99E-04	1.99E-04	1.26E-03
Strontium	6.18E-05	6.18E-05	6.33E-05	6.33E-05	4.65E-05	4.65E-05	1.15E-05	1.15E-05	1.23E-05	1.23E-05	1.22E-05	1.22E-05	1.12E-05	1.12E-05	7.07E-05
Thallium	4.41E-07	4.41E-07	4.52E-07	4.52E-07	3.32E-07	3.32E-07	8.23E-08	8.23E-08	8.78E-08	8.78E-08	8.74E-08	8.74E-08	7.97E-08	7.97E-08	5.05E-07
Tin	8.83E-06	8.83E-06	9.04E-06	9.04E-06	6.64E-06	6.64E-06	1.65E-06	1.65E-06	1.76E-06	1.76E-06	1.75E-06	1.75E-06	1.59E-06	1.59E-06	1.01E-05
Titanium	9.71E-03	9.71E-03	9.94E-03	9.94E-03	7.31E-03	7.31E-03	1.81E-03	1.81E-03	1.93E-03	1.93E-03	1.92E-03	1.92E-03	1.75E-03	1.75E-03	1.11E-02
Uranium	4.41E-07	4.41E-07	4.52E-07	4.52E-07	3.32E-07	3.32E-07	8.23E-08	8.23E-08	8.78E-08	8.78E-08	8.74E-08	8.74E-08	7.97E-08	7.97E-08	5.05E-07
Vanadium	4.41E-04	4.41E-04	4.52E-04	4.52E-04	3.32E-04	3.32E-04	8.23E-05	8.23E-05	8.78E-05	8.78E-05	8.74E-05	8.74E-05	7.97E-05	7.97E-05	5.05E-04
Zinc	2.60E-04	2.60E-04	2.67E-04	2.67E-04	1.96E-04	1.96E-04	4.86E-05	4.86E-05	5.18E-05	5.18E-05	5.15E-05	5.15E-05	4.70E-05	4.70E-05	2.98E-04

Note:
All concentrations are in g/m² /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	5.05	1.01	1.01	4.65	4.65	1.36	1.36	0.82	0.82	1.10	1.10	6.60	6.60	2.46	2.46
Metal Dustfall Deposition															
Aluminum	1.46E-01	2.92E-02	2.92E-02	1.35E-01	1.35E-01	3.96E-02	3.96E-02	2.38E-02	2.38E-02	3.18E-02	3.18E-02	1.91E-01	1.91E-01	7.15E-02	7.15E-02
Antimony	5.05E-07	1.01E-07	1.01E-07	4.65E-07	4.65E-07	1.36E-07	1.36E-07	8.19E-08	8.19E-08	1.10E-07	1.10E-07	6.60E-07	6.60E-07	2.46E-07	2.46E-07
Arsenic	2.53E-06	5.03E-07	5.03E-07	2.33E-06	2.33E-06	6.82E-07	6.82E-07	4.10E-07	4.10E-07	5.49E-07	5.49E-07	3.30E-06	3.30E-06	1.23E-06	1.23E-06
Barium	1.52E-05	3.02E-06	3.02E-06	1.40E-05	1.40E-05	4.09E-06	4.09E-06	2.46E-06	2.46E-06	3.29E-06	3.29E-06	1.98E-05	1.98E-05	7.39E-06	7.39E-06
Beryllium	1.67E-06	3.32E-07	3.32E-07	1.54E-06	1.54E-06	4.50E-07	4.50E-07	2.70E-07	2.70E-07	3.62E-07	3.62E-07	2.18E-06	2.18E-06	8.13E-07	8.13E-07
Bismuth	5.05E-07	1.01E-07	1.01E-07	4.65E-07	4.65E-07	1.36E-07	1.36E-07	8.19E-08	8.19E-08	1.10E-07	1.10E-07	6.60E-07	6.60E-07	2.46E-07	2.46E-07
Cadmium	5.05E-07	1.01E-07	1.01E-07	4.65E-07	4.65E-07	1.36E-07	1.36E-07	8.19E-08	8.19E-08	1.10E-07	1.10E-07	6.60E-07	6.60E-07	2.46E-07	2.46E-07
Calcium	1.62E-01	3.22E-02	3.22E-02	1.49E-01	1.49E-01	4.37E-02	4.37E-02	2.62E-02	2.62E-02	3.51E-02	3.51E-02	2.11E-01	2.11E-01	7.89E-02	7.89E-02
Chromium	7.58E-04	1.51E-04	1.51E-04	6.98E-04	6.98E-04	2.05E-04	2.05E-04	1.23E-04	1.23E-04	1.65E-04	1.65E-04	9.90E-04	9.90E-04	3.70E-04	3.70E-04
Cobalt	1.77E-04	3.52E-05	3.52E-05	1.63E-04	1.63E-04	4.78E-05	4.78E-05	2.87E-05	2.87E-05	3.84E-05	3.84E-05	2.31E-04	2.31E-04	8.63E-05	8.63E-05
Copper	5.56E-04	1.11E-04	1.11E-04	5.12E-04	5.12E-04	1.50E-04	1.50E-04	9.01E-05	9.01E-05	1.21E-04	1.21E-04	7.26E-04	7.26E-04	2.71E-04	2.71E-04
Iron	2.47E-01	4.93E-02	4.93E-02	2.28E-01	2.28E-01	6.69E-02	6.69E-02	4.01E-02	4.01E-02	5.38E-02	5.38E-02	3.23E-01	3.23E-01	1.21E-01	1.21E-01
Lead	3.03E-06	6.04E-07	6.04E-07	2.79E-06	2.79E-06	8.19E-07	8.19E-07	4.91E-07	4.91E-07	6.59E-07	6.59E-07	3.96E-06	3.96E-06	1.48E-06	1.48E-06
Magnesium	1.16E-01	2.32E-02	2.32E-02	1.07E-01	1.07E-01	3.14E-02	3.14E-02	1.88E-02	1.88E-02	2.53E-02	2.53E-02	1.52E-01	1.52E-01	5.67E-02	5.67E-02
Manganese	4.70E-03	9.36E-04	9.36E-04	4.33E-03	4.33E-03	1.27E-03	1.27E-03	7.62E-04	7.62E-04	1.02E-03	1.02E-03	6.14E-03	6.14E-03	2.29E-03	2.29E-03
Mercury	5.05E-08	1.01E-08	1.01E-08	4.65E-08	4.65E-08	1.36E-08	1.36E-08	8.19E-09	8.19E-09	1.10E-08	1.10E-08	6.60E-08	6.60E-08	2.46E-08	2.46E-08
Molybdenum	2.53E-06	5.03E-07	5.03E-07	2.33E-06	2.33E-06	6.82E-07	6.82E-07	4.10E-07	4.10E-07	5.49E-07	5.49E-07	3.30E-06	3.30E-06	1.23E-06	1.23E-06
Nickel	3.64E-04	7.25E-05	7.25E-05	3.35E-04	3.35E-04	9.82E-05	9.82E-05	5.90E-05	5.90E-05	7.91E-05	7.91E-05	4.75E-04	4.75E-04	1.77E-04	1.77E-04
Phosphorus	1.11E-03	2.22E-04	2.22E-04	1.02E-03	1.02E-03	3.00E-04	3.00E-04	1.80E-04	1.80E-04	2.42E-04	2.42E-04	1.45E-03	1.45E-03	5.42E-04	5.42E-04
Potassium	5.05E-04	1.01E-04	1.01E-04	4.65E-04	4.65E-04	1.36E-04	1.36E-04	8.19E-05	8.19E-05	1.10E-04	1.10E-04	6.60E-04	6.60E-04	2.46E-04	2.46E-04
Selenium	2.53E-06	5.03E-07	5.03E-07	2.33E-06	2.33E-06	6.82E-07	6.82E-07	4.10E-07	4.10E-07	5.49E-07	5.49E-07	3.30E-06	3.30E-06	1.23E-06	1.23E-06
Silver	5.05E-07	1.01E-07	1.01E-07	4.65E-07	4.65E-07	1.36E-07	1.36E-07	8.19E-08	8.19E-08	1.10E-07	1.10E-07	6.60E-07	6.60E-07	2.46E-07	2.46E-07
Sodium	1.26E-03	2.52E-04	2.52E-04	1.16E-03	1.16E-03	3.41E-04	3.41E-04	2.05E-04	2.05E-04	2.75E-04	2.75E-04	1.65E-03	1.65E-03	6.16E-04	6.16E-04
Strontium	7.07E-05	1.41E-05	1.41E-05	6.52E-05	6.52E-05	1.91E-05	1.91E-05	1.15E-05	1.15E-05	1.54E-05	1.54E-05	9.24E-05	9.24E-05	3.45E-05	3.45E-05
Thallium	5.05E-07	1.01E-07	1.01E-07	4.65E-07	4.65E-07	1.36E-07	1.36E-07	8.19E-08	8.19E-08	1.10E-07	1.10E-07	6.60E-07	6.60E-07	2.46E-07	2.46E-07
Tin	1.01E-05	2.01E-06	2.01E-06	9.31E-06	9.31E-06	2.73E-06	2.73E-06	1.64E-06	1.64E-06	2.20E-06	2.20E-06	1.32E-05	1.32E-05	4.93E-06	4.93E-06
Titanium	1.11E-02	2.22E-03	2.22E-03	1.02E-02	1.02E-02	3.00E-03	3.00E-03	1.80E-03	1.80E-03	2.42E-03	2.42E-03	1.45E-02	1.45E-02	5.42E-03	5.42E-03
Uranium	5.05E-07	1.01E-07	1.01E-07	4.65E-07	4.65E-07	1.36E-07	1.36E-07	8.19E-08	8.19E-08	1.10E-07	1.10E-07	6.60E-07	6.60E-07	2.46E-07	2.46E-07
Vanadium	5.05E-04	1.01E-04	1.01E-04	4.65E-04	4.65E-04	1.36E-04	1.36E-04	8.19E-05	8.19E-05	1.10E-04	1.10E-04	6.60E-04	6.60E-04	2.46E-04	2.46E-04
Zinc	2.98E-04	5.94E-05	5.94E-05	2.75E-04	2.75E-04	8.05E-05	8.05E-05	4.83E-05	4.83E-05	6.48E-05	6.48E-05	3.89E-04	3.89E-04	1.45E-04	1.45E-04

Note:
All concentrations are in g/m² /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	1.20	1.20	0.96	0.96	4.54	4.54	2.01	2.01	2.46	2.46	4.54	4.54	1.10	1.10	1.22
Metal Dustfall Deposition															
Aluminum	3.55E-02	3.55E-02	2.79E-02	2.79E-02	1.32E-01	1.32E-01	5.84E-02	5.84E-02	7.15E-02	7.15E-02	1.32E-01	1.32E-01	3.18E-02	3.18E-02	3.55E-02
Antimony	1.22E-07	1.22E-07	9.62E-08	9.62E-08	4.54E-07	4.54E-07	2.01E-07	2.01E-07	2.46E-07	2.46E-07	4.54E-07	4.54E-07	1.10E-07	1.10E-07	1.22E-07
Arsenic	6.12E-07	6.12E-07	4.81E-07	4.81E-07	2.27E-06	2.27E-06	1.01E-06	1.01E-06	1.23E-06	1.23E-06	2.27E-06	2.27E-06	5.49E-07	5.49E-07	6.12E-07
Barium	3.67E-06	3.67E-06	2.89E-06	2.89E-06	1.36E-05	1.36E-05	6.04E-06	6.04E-06	7.39E-06	7.39E-06	1.36E-05	1.36E-05	3.29E-06	3.29E-06	3.67E-06
Beryllium	4.04E-07	4.04E-07	3.18E-07	3.18E-07	1.50E-06	1.50E-06	6.64E-07	6.64E-07	8.13E-07	8.13E-07	1.50E-06	1.50E-06	3.62E-07	3.62E-07	4.04E-07
Bismuth	1.22E-07	1.22E-07	9.62E-08	9.62E-08	4.54E-07	4.54E-07	2.01E-07	2.01E-07	2.46E-07	2.46E-07	4.54E-07	4.54E-07	1.10E-07	1.10E-07	1.22E-07
Cadmium	1.22E-07	1.22E-07	9.62E-08	9.62E-08	4.54E-07	4.54E-07	2.01E-07	2.01E-07	2.46E-07	2.46E-07	4.54E-07	4.54E-07	1.10E-07	1.10E-07	1.22E-07
Calcium	3.92E-02	3.92E-02	3.08E-02	3.08E-02	1.45E-01	1.45E-01	6.44E-02	6.44E-02	7.89E-02	7.89E-02	1.45E-01	1.45E-01	3.51E-02	3.51E-02	3.92E-02
Chromium	1.84E-04	1.84E-04	1.44E-04	1.44E-04	6.81E-04	6.81E-04	3.02E-04	3.02E-04	3.70E-04	3.70E-04	6.81E-04	6.81E-04	1.65E-04	1.65E-04	1.84E-04
Cobalt	4.28E-05	4.28E-05	3.37E-05	3.37E-05	1.59E-04	1.59E-04	7.05E-05	7.05E-05	8.63E-05	8.63E-05	1.59E-04	1.59E-04	3.84E-05	3.84E-05	4.28E-05
Copper	1.35E-04	1.35E-04	1.06E-04	1.06E-04	5.00E-04	5.00E-04	2.21E-04	2.21E-04	2.71E-04	2.71E-04	5.00E-04	5.00E-04	1.21E-04	1.21E-04	1.35E-04
Iron	6.00E-02	6.00E-02	4.71E-02	4.71E-02	2.23E-01	2.23E-01	9.87E-02	9.87E-02	1.21E-01	1.21E-01	2.23E-01	2.23E-01	5.38E-02	5.38E-02	6.00E-02
Lead	7.34E-07	7.34E-07	5.77E-07	5.77E-07	2.72E-06	2.72E-06	1.21E-06	1.21E-06	1.48E-06	1.48E-06	2.72E-06	2.72E-06	6.59E-07	6.59E-07	7.34E-07
Magnesium	2.81E-02	2.81E-02	2.21E-02	2.21E-02	1.04E-01	1.04E-01	4.63E-02	4.63E-02	5.67E-02	5.67E-02	1.04E-01	1.04E-01	2.53E-02	2.53E-02	2.81E-02
Manganese	1.14E-03	1.14E-03	8.95E-04	8.95E-04	4.22E-03	4.22E-03	1.87E-03	1.87E-03	2.29E-03	2.29E-03	4.22E-03	4.22E-03	1.02E-03	1.02E-03	1.14E-03
Mercury	1.22E-08	1.22E-08	9.62E-09	9.62E-09	4.54E-08	4.54E-08	2.01E-08	2.01E-08	2.46E-08	2.46E-08	4.54E-08	4.54E-08	1.10E-08	1.10E-08	1.22E-08
Molybdenum	6.12E-07	6.12E-07	4.81E-07	4.81E-07	2.27E-06	2.27E-06	1.01E-06	1.01E-06	1.23E-06	1.23E-06	2.27E-06	2.27E-06	5.49E-07	5.49E-07	6.12E-07
Nickel	8.81E-05	8.81E-05	6.93E-05	6.93E-05	3.27E-04	3.27E-04	1.45E-04	1.45E-04	1.77E-04	1.77E-04	3.27E-04	3.27E-04	7.91E-05	7.91E-05	8.81E-05
Phosphorus	2.69E-04	2.69E-04	2.12E-04	2.12E-04	9.99E-04	9.99E-04	4.43E-04	4.43E-04	5.42E-04	5.42E-04	9.99E-04	9.99E-04	2.42E-04	2.42E-04	2.69E-04
Potassium	1.22E-04	1.22E-04	9.62E-05	9.62E-05	4.54E-04	4.54E-04	2.01E-04	2.01E-04	2.46E-04	2.46E-04	4.54E-04	4.54E-04	1.10E-04	1.10E-04	1.22E-04
Selenium	6.12E-07	6.12E-07	4.81E-07	4.81E-07	2.27E-06	2.27E-06	1.01E-06	1.01E-06	1.23E-06	1.23E-06	2.27E-06	2.27E-06	5.49E-07	5.49E-07	6.12E-07
Silver	1.22E-07	1.22E-07	9.62E-08	9.62E-08	4.54E-07	4.54E-07	2.01E-07	2.01E-07	2.46E-07	2.46E-07	4.54E-07	4.54E-07	1.10E-07	1.10E-07	1.22E-07
Sodium	3.06E-04	3.06E-04	2.41E-04	2.41E-04	1.14E-03	1.14E-03	5.03E-04	5.03E-04	6.16E-04	6.16E-04	1.14E-03	1.14E-03	2.75E-04	2.75E-04	3.06E-04
Strontium	1.71E-05	1.71E-05	1.35E-05	1.35E-05	6.36E-05	6.36E-05	2.82E-05	2.82E-05	3.45E-05	3.45E-05	6.36E-05	6.36E-05	1.54E-05	1.54E-05	1.71E-05
Thallium	1.22E-07	1.22E-07	9.62E-08	9.62E-08	4.54E-07	4.54E-07	2.01E-07	2.01E-07	2.46E-07	2.46E-07	4.54E-07	4.54E-07	1.10E-07	1.10E-07	1.22E-07
Tin	2.45E-06	2.45E-06	1.92E-06	1.92E-06	9.08E-06	9.08E-06	4.03E-06	4.03E-06	4.93E-06	4.93E-06	9.08E-06	9.08E-06	2.20E-06	2.20E-06	2.45E-06
Titanium	2.69E-03	2.69E-03	2.12E-03	2.12E-03	9.99E-03	9.99E-03	4.43E-03	4.43E-03	5.42E-03	5.42E-03	9.99E-03	9.99E-03	2.42E-03	2.42E-03	2.69E-03
Uranium	1.22E-07	1.22E-07	9.62E-08	9.62E-08	4.54E-07	4.54E-07	2.01E-07	2.01E-07	2.46E-07	2.46E-07	4.54E-07	4.54E-07	1.10E-07	1.10E-07	1.22E-07
Vanadium	1.22E-04	1.22E-04	9.62E-05	9.62E-05	4.54E-04	4.54E-04	2.01E-04	2.01E-04	2.46E-04	2.46E-04	4.54E-04	4.54E-04	1.10E-04	1.10E-04	1.22E-04
Zinc	7.22E-05	7.22E-05	5.68E-05	5.68E-05	2.68E-04	2.68E-04	1.19E-04	1.19E-04	1.45E-04	1.45E-04	2.68E-04	2.68E-04	6.48E-05	6.48E-05	7.22E-05

Note:
All concentrations are in g/m² /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	1.22	1.27	1.27	0.87	0.87	3.50	3.50	1.66	1.66	1.64	1.64	2.34	2.34	1.52	1.52
Metal Dustfall Deposition															
Aluminum	3.55E-02	3.68E-02	3.68E-02	2.52E-02	2.52E-02	1.01E-01	1.01E-01	4.81E-02	4.81E-02	4.77E-02	4.77E-02	6.80E-02	6.80E-02	4.40E-02	4.40E-02
Antimony	1.22E-07	1.27E-07	1.27E-07	8.68E-08	8.68E-08	3.47E-07	3.47E-07	1.66E-07	1.66E-07	1.64E-07	1.64E-07	2.34E-07	2.34E-07	1.52E-07	1.52E-07
Arsenic	6.12E-07	6.35E-07	6.35E-07	4.34E-07	4.34E-07	1.74E-06	1.74E-06	8.29E-07	8.29E-07	8.22E-07	8.22E-07	1.17E-06	1.17E-06	7.59E-07	7.59E-07
Barium	3.67E-06	3.81E-06	3.81E-06	2.60E-06	2.60E-06	1.04E-05	1.04E-05	4.97E-06	4.97E-06	4.93E-06	4.93E-06	7.03E-06	7.03E-06	4.55E-06	4.55E-06
Beryllium	4.04E-07	4.19E-07	4.19E-07	2.86E-07	2.86E-07	1.15E-06	1.15E-06	5.47E-07	5.47E-07	5.43E-07	5.43E-07	7.73E-07	7.73E-07	5.01E-07	5.01E-07
Bismuth	1.22E-07	1.27E-07	1.27E-07	8.68E-08	8.68E-08	3.47E-07	3.47E-07	1.66E-07	1.66E-07	1.64E-07	1.64E-07	2.34E-07	2.34E-07	1.52E-07	1.52E-07
Cadmium	1.22E-07	1.27E-07	1.27E-07	8.68E-08	8.68E-08	3.47E-07	3.47E-07	1.66E-07	1.66E-07	1.64E-07	1.64E-07	2.34E-07	2.34E-07	1.52E-07	1.52E-07
Calcium	3.92E-02	4.06E-02	4.06E-02	2.78E-02	2.78E-02	1.11E-01	1.11E-01	5.30E-02	5.30E-02	5.26E-02	5.26E-02	7.50E-02	7.50E-02	4.86E-02	4.86E-02
Chromium	1.84E-04	1.90E-04	1.90E-04	1.30E-04	1.30E-04	5.21E-04	5.21E-04	2.49E-04	2.49E-04	2.47E-04	2.47E-04	3.51E-04	3.51E-04	2.28E-04	2.28E-04
Cobalt	4.28E-05	4.44E-05	4.44E-05	3.04E-05	3.04E-05	1.22E-04	1.22E-04	5.80E-05	5.80E-05	5.75E-05	5.75E-05	8.20E-05	8.20E-05	5.31E-05	5.31E-05
Copper	1.35E-04	1.40E-04	1.40E-04	9.55E-05	9.55E-05	3.82E-04	3.82E-04	1.82E-04	1.82E-04	1.81E-04	1.81E-04	2.58E-04	2.58E-04	1.67E-04	1.67E-04
Iron	6.00E-02	6.22E-02	6.22E-02	4.25E-02	4.25E-02	1.70E-01	1.70E-01	8.12E-02	8.12E-02	8.06E-02	8.06E-02	1.15E-01	1.15E-01	7.44E-02	7.44E-02
Lead	7.34E-07	7.62E-07	7.62E-07	5.21E-07	5.21E-07	2.08E-06	2.08E-06	9.94E-07	9.94E-07	9.86E-07	9.86E-07	1.41E-06	1.41E-06	9.11E-07	9.11E-07
Magnesium	2.81E-02	2.92E-02	2.92E-02	2.00E-02	2.00E-02	7.99E-02	7.99E-02	3.81E-02	3.81E-02	3.78E-02	3.78E-02	5.39E-02	5.39E-02	3.49E-02	3.49E-02
Manganese	1.14E-03	1.18E-03	1.18E-03	8.07E-04	8.07E-04	3.23E-03	3.23E-03	1.54E-03	1.54E-03	1.53E-03	1.53E-03	2.18E-03	2.18E-03	1.41E-03	1.41E-03
Mercury	1.22E-08	1.27E-08	1.27E-08	8.68E-09	8.68E-09	3.47E-08	3.47E-08	1.66E-08	1.66E-08	1.64E-08	1.64E-08	2.34E-08	2.34E-08	1.52E-08	1.52E-08
Molybdenum	6.12E-07	6.35E-07	6.35E-07	4.34E-07	4.34E-07	1.74E-06	1.74E-06	8.29E-07	8.29E-07	8.22E-07	8.22E-07	1.17E-06	1.17E-06	7.59E-07	7.59E-07
Nickel	8.81E-05	9.14E-05	9.14E-05	6.25E-05	6.25E-05	2.50E-04	2.50E-04	1.19E-04	1.19E-04	1.18E-04	1.18E-04	1.69E-04	1.69E-04	1.09E-04	1.09E-04
Phosphorus	2.69E-04	2.79E-04	2.79E-04	1.91E-04	1.91E-04	7.64E-04	7.64E-04	3.65E-04	3.65E-04	3.62E-04	3.62E-04	5.16E-04	5.16E-04	3.34E-04	3.34E-04
Potassium	1.22E-04	1.27E-04	1.27E-04	8.68E-05	8.68E-05	3.47E-04	3.47E-04	1.66E-04	1.66E-04	1.64E-04	1.64E-04	2.34E-04	2.34E-04	1.52E-04	1.52E-04
Selenium	6.12E-07	6.35E-07	6.35E-07	4.34E-07	4.34E-07	1.74E-06	1.74E-06	8.29E-07	8.29E-07	8.22E-07	8.22E-07	1.17E-06	1.17E-06	7.59E-07	7.59E-07
Silver	1.22E-07	1.27E-07	1.27E-07	8.68E-08	8.68E-08	3.47E-07	3.47E-07	1.66E-07	1.66E-07	1.64E-07	1.64E-07	2.34E-07	2.34E-07	1.52E-07	1.52E-07
Sodium	3.06E-04	3.17E-04	3.17E-04	2.17E-04	2.17E-04	8.68E-04	8.68E-04	4.14E-04	4.14E-04	4.11E-04	4.11E-04	5.86E-04	5.86E-04	3.79E-04	3.79E-04
Strontium	1.71E-05	1.78E-05	1.78E-05	1.21E-05	1.21E-05	4.86E-05	4.86E-05	2.32E-05	2.32E-05	2.30E-05	2.30E-05	3.28E-05	3.28E-05	2.12E-05	2.12E-05
Thallium	1.22E-07	1.27E-07	1.27E-07	8.68E-08	8.68E-08	3.47E-07	3.47E-07	1.66E-07	1.66E-07	1.64E-07	1.64E-07	2.34E-07	2.34E-07	1.52E-07	1.52E-07
Tin	2.45E-06	2.54E-06	2.54E-06	1.74E-06	1.74E-06	6.95E-06	6.95E-06	3.31E-06	3.31E-06	3.29E-06	3.29E-06	4.69E-06	4.69E-06	3.04E-06	3.04E-06
Titanium	2.69E-03	2.79E-03	2.79E-03	1.91E-03	1.91E-03	7.64E-03	7.64E-03	3.65E-03	3.65E-03	3.62E-03	3.62E-03	5.16E-03	5.16E-03	3.34E-03	3.34E-03
Uranium	1.22E-07	1.27E-07	1.27E-07	8.68E-08	8.68E-08	3.47E-07	3.47E-07	1.66E-07	1.66E-07	1.64E-07	1.64E-07	2.34E-07	2.34E-07	1.52E-07	1.52E-07
Vanadium	1.22E-04	1.27E-04	1.27E-04	8.68E-05	8.68E-05	3.47E-04	3.47E-04	1.66E-04	1.66E-04	1.64E-04	1.64E-04	2.34E-04	2.34E-04	1.52E-04	1.52E-04
Zinc	7.22E-05	7.49E-05	7.49E-05	5.12E-05	5.12E-05	2.05E-04	2.05E-04	9.78E-05	9.78E-05	9.70E-05	9.70E-05	1.38E-04	1.38E-04	8.95E-05	8.95E-05

Note:
All concentrations are in g/m² /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	1.42	1.42	2.76	2.76	1.80	1.80	2.19	2.19	5.00	5.00	0.80	0.80	0.84	0.78	0.78
Metal Dustfall Deposition															
Aluminum	4.12E-02	4.12E-02	7.99E-02	7.99E-02	5.20E-02	5.20E-02	6.36E-02	6.36E-02	1.45E-01	1.45E-01	2.32E-02	2.31E-02	2.45E-02	2.27E-02	2.26E-02
Antimony	1.42E-07	1.42E-07	2.76E-07	2.76E-07	1.79E-07	1.79E-07	2.19E-07	2.19E-07	5.00E-07	5.00E-07	7.99E-08	7.98E-08	8.44E-08	7.81E-08	7.79E-08
Arsenic	7.10E-07	7.10E-07	1.38E-06	1.38E-06	8.97E-07	8.97E-07	1.10E-06	1.10E-06	2.50E-06	2.50E-06	3.99E-07	3.99E-07	4.22E-07	3.91E-07	3.90E-07
Barium	4.26E-06	4.26E-06	8.27E-06	8.27E-06	5.38E-06	5.38E-06	6.58E-06	6.58E-06	1.50E-05	1.50E-05	2.40E-06	2.39E-06	2.53E-06	2.34E-06	2.34E-06
Beryllium	4.69E-07	4.69E-07	9.09E-07	9.09E-07	5.92E-07	5.92E-07	7.24E-07	7.24E-07	1.65E-06	1.65E-06	2.64E-07	2.63E-07	2.79E-07	2.58E-07	2.57E-07
Bismuth	1.42E-07	1.42E-07	2.76E-07	2.76E-07	1.79E-07	1.79E-07	2.19E-07	2.19E-07	5.00E-07	5.00E-07	7.99E-08	7.98E-08	8.44E-08	7.81E-08	7.79E-08
Cadmium	1.42E-07	1.42E-07	2.76E-07	2.76E-07	1.79E-07	1.79E-07	2.19E-07	2.19E-07	5.00E-07	5.00E-07	7.99E-08	7.98E-08	8.44E-08	7.81E-08	7.79E-08
Calcium	4.55E-02	4.55E-02	8.82E-02	8.82E-02	5.74E-02	5.74E-02	7.02E-02	7.02E-02	1.60E-01	1.60E-01	2.56E-02	2.55E-02	2.70E-02	2.50E-02	2.49E-02
Chromium	2.13E-04	2.13E-04	4.13E-04	4.13E-04	2.69E-04	2.69E-04	3.29E-04	3.29E-04	7.50E-04	7.50E-04	1.20E-04	1.20E-04	1.27E-04	1.17E-04	1.17E-04
Cobalt	4.97E-05	4.97E-05	9.64E-05	9.64E-05	6.28E-05	6.28E-05	7.68E-05	7.68E-05	1.75E-04	1.75E-04	2.80E-05	2.79E-05	2.95E-05	2.73E-05	2.73E-05
Copper	1.56E-04	1.56E-04	3.03E-04	3.03E-04	1.97E-04	1.97E-04	2.41E-04	2.41E-04	5.50E-04	5.50E-04	8.78E-05	8.78E-05	9.28E-05	8.59E-05	8.57E-05
Iron	6.96E-02	6.96E-02	1.35E-01	1.35E-01	8.79E-02	8.79E-02	1.08E-01	1.08E-01	2.45E-01	2.45E-01	3.91E-02	3.91E-02	4.14E-02	3.83E-02	3.82E-02
Lead	8.53E-07	8.53E-07	1.65E-06	1.65E-06	1.08E-06	1.08E-06	1.32E-06	1.32E-06	3.00E-06	3.00E-06	4.79E-07	4.79E-07	5.06E-07	4.69E-07	4.68E-07
Magnesium	3.27E-02	3.27E-02	6.34E-02	6.34E-02	4.13E-02	4.13E-02	5.05E-02	5.05E-02	1.15E-01	1.15E-01	1.84E-02	1.84E-02	1.94E-02	1.80E-02	1.79E-02
Manganese	1.32E-03	1.32E-03	2.56E-03	2.56E-03	1.67E-03	1.67E-03	2.04E-03	2.04E-03	4.65E-03	4.65E-03	7.43E-04	7.42E-04	7.85E-04	7.26E-04	7.25E-04
Mercury	1.42E-08	1.42E-08	2.76E-08	2.76E-08	1.79E-08	1.79E-08	2.19E-08	2.19E-08	5.00E-08	5.00E-08	7.99E-09	7.98E-09	8.44E-09	7.81E-09	7.79E-09
Molybdenum	7.10E-07	7.10E-07	1.38E-06	1.38E-06	8.97E-07	8.97E-07	1.10E-06	1.10E-06	2.50E-06	2.50E-06	3.99E-07	3.99E-07	4.22E-07	3.91E-07	3.90E-07
Nickel	1.02E-04	1.02E-04	1.98E-04	1.98E-04	1.29E-04	1.29E-04	1.58E-04	1.58E-04	3.60E-04	3.60E-04	5.75E-05	5.75E-05	6.08E-05	5.62E-05	5.61E-05
Phosphorus	3.13E-04	3.13E-04	6.06E-04	6.06E-04	3.95E-04	3.95E-04	4.83E-04	4.83E-04	1.10E-03	1.10E-03	1.76E-04	1.76E-04	1.86E-04	1.72E-04	1.71E-04
Potassium	1.42E-04	1.42E-04	2.76E-04	2.76E-04	1.79E-04	1.79E-04	2.19E-04	2.19E-04	5.00E-04	5.00E-04	7.99E-05	7.98E-05	8.44E-05	7.81E-05	7.79E-05
Selenium	7.10E-07	7.10E-07	1.38E-06	1.38E-06	8.97E-07	8.97E-07	1.10E-06	1.10E-06	2.50E-06	2.50E-06	3.99E-07	3.99E-07	4.22E-07	3.91E-07	3.90E-07
Silver	1.42E-07	1.42E-07	2.76E-07	2.76E-07	1.79E-07	1.79E-07	2.19E-07	2.19E-07	5.00E-07	5.00E-07	7.99E-08	7.98E-08	8.44E-08	7.81E-08	7.79E-08
Sodium	3.55E-04	3.55E-04	6.89E-04	6.89E-04	4.48E-04	4.48E-04	5.49E-04	5.49E-04	1.25E-03	1.25E-03	2.00E-04	1.99E-04	2.11E-04	1.95E-04	1.95E-04
Strontium	1.99E-05	1.99E-05	3.86E-05	3.86E-05	2.51E-05	2.51E-05	3.07E-05	3.07E-05	7.00E-05	7.00E-05	1.12E-05	1.12E-05	1.18E-05	1.09E-05	1.09E-05
Thallium	1.42E-07	1.42E-07	2.76E-07	2.76E-07	1.79E-07	1.79E-07	2.19E-07	2.19E-07	5.00E-07	5.00E-07	7.99E-08	7.98E-08	8.44E-08	7.81E-08	7.79E-08
Tin	2.84E-06	2.84E-06	5.51E-06	5.51E-06	3.59E-06	3.59E-06	4.39E-06	4.39E-06	1.00E-05	1.00E-05	1.60E-06	1.60E-06	1.69E-06	1.56E-06	1.56E-06
Titanium	3.13E-03	3.13E-03	6.06E-03	6.06E-03	3.95E-03	3.95E-03	4.83E-03	4.83E-03	1.10E-02	1.10E-02	1.76E-03	1.76E-03	1.86E-03	1.72E-03	1.71E-03
Uranium	1.42E-07	1.42E-07	2.76E-07	2.76E-07	1.79E-07	1.79E-07	2.19E-07	2.19E-07	5.00E-07	5.00E-07	7.99E-08	7.98E-08	8.44E-08	7.81E-08	7.79E-08
Vanadium	1.42E-04	1.42E-04	2.76E-04	2.76E-04	1.79E-04	1.79E-04	2.19E-04	2.19E-04	5.00E-04	5.00E-04	7.99E-05	7.98E-05	8.44E-05	7.81E-05	7.79E-05
Zinc	8.38E-05	8.38E-05	1.63E-04	1.63E-04	1.06E-04	1.06E-04	1.29E-04	1.29E-04	2.95E-04	2.95E-04	4.71E-05	4.71E-05	4.98E-05	4.61E-05	4.60E-05

Note:
All concentrations are in g/m² /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	0.78	0.79	0.84	0.85	3.14	0.89	1.48	3.70	0.80	0.81	0.78	0.78	0.80	1.27	1.27
Metal Dustfall Deposition															
Aluminum	2.26E-02	2.30E-02	2.44E-02	2.45E-02	9.09E-02	2.57E-02	4.30E-02	1.08E-01	2.30E-02	2.36E-02	2.28E-02	2.28E-02	2.27E-02	3.68E-02	3.68E-02
Antimony	7.79E-08	7.93E-08	8.42E-08	8.46E-08	3.14E-07	8.87E-08	1.48E-07	3.74E-07	7.93E-08	8.13E-08	7.85E-08	7.85E-08	7.83E-08	1.27E-07	1.27E-07
Arsenic	3.90E-07	3.96E-07	4.21E-07	4.23E-07	1.57E-06	4.43E-07	7.42E-07	1.87E-06	3.96E-07	4.07E-07	3.92E-07	3.92E-07	3.92E-07	6.35E-07	6.35E-07
Barium	2.34E-06	2.38E-06	2.53E-06	2.54E-06	9.41E-06	2.66E-06	4.45E-06	1.12E-05	2.38E-06	2.44E-06	2.35E-06	2.35E-06	2.35E-06	3.81E-06	3.81E-06
Beryllium	2.57E-07	2.62E-07	2.78E-07	2.79E-07	1.03E-06	2.93E-07	4.90E-07	1.23E-06	2.62E-07	2.68E-07	2.59E-07	2.59E-07	2.58E-07	4.19E-07	4.19E-07
Bismuth	7.79E-08	7.93E-08	8.42E-08	8.46E-08	3.14E-07	8.87E-08	1.48E-07	3.74E-07	7.93E-08	8.13E-08	7.85E-08	7.85E-08	7.83E-08	1.27E-07	1.27E-07
Cadmium	7.79E-08	7.93E-08	8.42E-08	8.46E-08	3.14E-07	8.87E-08	1.48E-07	3.74E-07	7.93E-08	8.13E-08	7.85E-08	7.85E-08	7.83E-08	1.27E-07	1.27E-07
Calcium	2.49E-02	2.54E-02	2.69E-02	2.71E-02	1.00E-01	2.84E-02	4.75E-02	1.20E-01	2.54E-02	2.60E-02	2.51E-02	2.51E-02	2.51E-02	4.06E-02	4.06E-02
Chromium	1.17E-04	1.19E-04	1.26E-04	1.27E-04	4.70E-04	1.33E-04	2.23E-04	5.61E-04	1.19E-04	1.22E-04	1.18E-04	1.18E-04	1.17E-04	1.90E-04	1.90E-04
Cobalt	2.73E-05	2.77E-05	2.95E-05	2.96E-05	1.10E-04	3.10E-05	5.19E-05	1.31E-04	2.78E-05	2.85E-05	2.75E-05	2.75E-05	2.74E-05	4.44E-05	4.44E-05
Copper	8.57E-05	8.72E-05	9.26E-05	9.30E-05	3.45E-04	9.75E-05	1.63E-04	4.11E-04	8.72E-05	8.94E-05	8.63E-05	8.63E-05	8.61E-05	1.40E-04	1.40E-04
Iron	3.82E-02	3.88E-02	4.13E-02	4.14E-02	1.54E-01	4.34E-02	7.27E-02	1.83E-01	3.89E-02	3.98E-02	3.85E-02	3.85E-02	3.84E-02	6.22E-02	6.22E-02
Lead	4.68E-07	4.76E-07	5.05E-07	5.07E-07	1.88E-06	5.32E-07	8.90E-07	2.24E-06	4.76E-07	4.88E-07	4.71E-07	4.71E-07	4.70E-07	7.62E-07	7.62E-07
Magnesium	1.79E-02	1.82E-02	1.94E-02	1.95E-02	7.21E-02	2.04E-02	3.41E-02	8.60E-02	1.82E-02	1.87E-02	1.80E-02	1.80E-02	1.80E-02	2.92E-02	2.92E-02
Manganese	7.25E-04	7.37E-04	7.83E-04	7.86E-04	2.92E-03	8.25E-04	1.38E-03	3.48E-03	7.37E-04	7.56E-04	7.30E-04	7.30E-04	7.28E-04	1.18E-03	1.18E-03
Mercury	7.79E-09	7.93E-09	8.42E-09	8.46E-09	3.14E-08	8.87E-09	1.48E-08	3.74E-08	7.93E-09	8.13E-09	7.85E-09	7.85E-09	7.83E-09	1.27E-08	1.27E-08
Molybdenum	3.90E-07	3.96E-07	4.21E-07	4.23E-07	1.57E-06	4.43E-07	7.42E-07	1.87E-06	3.96E-07	4.07E-07	3.92E-07	3.92E-07	3.92E-07	6.35E-07	6.35E-07
Nickel	5.61E-05	5.71E-05	6.06E-05	6.09E-05	2.26E-04	6.38E-05	1.07E-04	2.69E-04	5.71E-05	5.85E-05	5.65E-05	5.65E-05	5.64E-05	9.14E-05	9.14E-05
Phosphorus	1.71E-04	1.74E-04	1.85E-04	1.86E-04	6.90E-04	1.95E-04	3.26E-04	8.23E-04	1.74E-04	1.79E-04	1.73E-04	1.73E-04	1.72E-04	2.79E-04	2.79E-04
Potassium	7.79E-05	7.93E-05	8.42E-05	8.46E-05	3.14E-04	8.87E-05	1.48E-04	3.74E-04	7.93E-05	8.13E-05	7.85E-05	7.85E-05	7.83E-05	1.27E-04	1.27E-04
Selenium	3.90E-07	3.96E-07	4.21E-07	4.23E-07	1.57E-06	4.43E-07	7.42E-07	1.87E-06	3.96E-07	4.07E-07	3.92E-07	3.92E-07	3.92E-07	6.35E-07	6.35E-07
Silver	7.79E-08	7.93E-08	8.42E-08	8.46E-08	3.14E-07	8.87E-08	1.48E-07	3.74E-07	7.93E-08	8.13E-08	7.85E-08	7.85E-08	7.83E-08	1.27E-07	1.27E-07
Sodium	1.95E-04	1.98E-04	2.11E-04	2.11E-04	7.84E-04	2.22E-04	3.71E-04	9.35E-04	1.98E-04	2.03E-04	1.96E-04	1.96E-04	1.96E-04	3.17E-04	3.17E-04
Strontium	1.09E-05	1.11E-05	1.18E-05	1.18E-05	4.39E-05	1.24E-05	2.08E-05	5.24E-05	1.11E-05	1.14E-05	1.10E-05	1.10E-05	1.10E-05	1.78E-05	1.78E-05
Thallium	7.79E-08	7.93E-08	8.42E-08	8.46E-08	3.14E-07	8.87E-08	1.48E-07	3.74E-07	7.93E-08	8.13E-08	7.85E-08	7.85E-08	7.83E-08	1.27E-07	1.27E-07
Tin	1.56E-06	1.59E-06	1.68E-06	1.69E-06	6.27E-06	1.77E-06	2.97E-06	7.48E-06	1.59E-06	1.63E-06	1.57E-06	1.57E-06	1.57E-06	2.54E-06	2.54E-06
Titanium	1.71E-03	1.74E-03	1.85E-03	1.86E-03	6.90E-03	1.95E-03	3.26E-03	8.23E-03	1.74E-03	1.79E-03	1.73E-03	1.73E-03	1.72E-03	2.79E-03	2.79E-03
Uranium	7.79E-08	7.93E-08	8.42E-08	8.46E-08	3.14E-07	8.87E-08	1.48E-07	3.74E-07	7.93E-08	8.13E-08	7.85E-08	7.85E-08	7.83E-08	1.27E-07	1.27E-07
Vanadium	7.79E-05	7.93E-05	8.42E-05	8.46E-05	3.14E-04	8.87E-05	1.48E-04	3.74E-04	7.93E-05	8.13E-05	7.85E-05	7.85E-05	7.83E-05	1.27E-04	1.27E-04
Zinc	4.60E-05	4.68E-05	4.97E-05	4.99E-05	1.85E-04	5.23E-05	8.75E-05	2.21E-04	4.68E-05	4.80E-05	4.63E-05	4.63E-05	4.62E-05	7.49E-05	7.49E-05

Note:
All concentrations are in g/m² /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	0.80	0.80	0.85	3.30	3.30	2.50	0.93	2.50	3.14	0.89	1.48	3.32	1.49
Metal Dustfall Deposition													
Aluminum	2.32E-02	2.31E-02	2.46E-02	9.59E-02	9.59E-02	7.14E-02	2.71E-02	7.19E-02	9.09E-02	2.57E-02	4.30E-02	9.63E-02	4.33E-02
Antimony	7.99E-08	7.98E-08	8.50E-08	3.31E-07	3.31E-07	2.46E-07	9.34E-08	2.48E-07	3.14E-07	8.87E-08	1.48E-07	3.32E-07	1.49E-07
Arsenic	3.99E-07	3.99E-07	4.25E-07	1.65E-06	1.65E-06	1.23E-06	4.67E-07	1.24E-06	1.57E-06	4.43E-07	7.42E-07	1.66E-06	7.46E-07
Barium	2.40E-06	2.39E-06	2.55E-06	9.93E-06	9.93E-06	7.39E-06	2.80E-06	7.44E-06	9.41E-06	2.66E-06	4.45E-06	9.96E-06	4.48E-06
Beryllium	2.64E-07	2.63E-07	2.80E-07	1.09E-06	1.09E-06	8.13E-07	3.08E-07	8.19E-07	1.03E-06	2.93E-07	4.90E-07	1.10E-06	4.92E-07
Bismuth	7.99E-08	7.98E-08	8.50E-08	3.31E-07	3.31E-07	2.46E-07	9.34E-08	2.48E-07	3.14E-07	8.87E-08	1.48E-07	3.32E-07	1.49E-07
Cadmium	7.99E-08	7.98E-08	8.50E-08	3.31E-07	3.31E-07	2.46E-07	9.34E-08	2.48E-07	3.14E-07	8.87E-08	1.48E-07	3.32E-07	1.49E-07
Calcium	2.56E-02	2.55E-02	2.72E-02	1.06E-01	1.06E-01	7.88E-02	2.99E-02	7.94E-02	1.00E-01	2.84E-02	4.75E-02	1.06E-01	4.78E-02
Chromium	1.20E-04	1.20E-04	1.27E-04	4.96E-04	4.96E-04	3.69E-04	1.40E-04	3.72E-04	4.70E-04	1.33E-04	2.23E-04	4.98E-04	2.24E-04
Cobalt	2.80E-05	2.79E-05	2.97E-05	1.16E-04	1.16E-04	8.62E-05	3.27E-05	8.68E-05	1.10E-04	3.10E-05	5.19E-05	1.16E-04	5.22E-05
Copper	8.78E-05	8.78E-05	9.35E-05	3.64E-04	3.64E-04	2.71E-04	1.03E-04	2.73E-04	3.45E-04	9.75E-05	1.63E-04	3.65E-04	1.64E-04
Iron	3.91E-02	3.91E-02	4.16E-02	1.62E-01	1.62E-01	1.21E-01	4.58E-02	1.22E-01	1.54E-01	4.34E-02	7.27E-02	1.63E-01	7.31E-02
Lead	4.79E-07	4.79E-07	5.10E-07	1.99E-06	1.99E-06	1.48E-06	5.60E-07	1.49E-06	1.88E-06	5.32E-07	8.90E-07	1.99E-06	8.95E-07
Magnesium	1.84E-02	1.84E-02	1.95E-02	7.61E-02	7.61E-02	5.66E-02	2.15E-02	5.71E-02	7.21E-02	2.04E-02	3.41E-02	7.64E-02	3.43E-02
Manganese	7.43E-04	7.42E-04	7.90E-04	3.08E-03	3.08E-03	2.29E-03	8.68E-04	2.31E-03	2.92E-03	8.25E-04	1.38E-03	3.09E-03	1.39E-03
Mercury	7.99E-09	7.98E-09	8.50E-09	3.31E-08	3.31E-08	2.46E-08	9.34E-09	2.48E-08	3.14E-08	8.87E-09	1.48E-08	3.32E-08	1.49E-08
Molybdenum	3.99E-07	3.99E-07	4.25E-07	1.65E-06	1.65E-06	1.23E-06	4.67E-07	1.24E-06	1.57E-06	4.43E-07	7.42E-07	1.66E-06	7.46E-07
Nickel	5.75E-05	5.75E-05	6.12E-05	2.38E-04	2.38E-04	1.77E-04	6.72E-05	1.79E-04	2.26E-04	6.38E-05	1.07E-04	2.39E-04	1.07E-04
Phosphorus	1.76E-04	1.76E-04	1.87E-04	7.28E-04	7.28E-04	5.42E-04	2.05E-04	5.46E-04	6.90E-04	1.95E-04	3.26E-04	7.31E-04	3.28E-04
Potassium	7.99E-05	7.98E-05	8.50E-05	3.31E-04	3.31E-04	2.46E-04	9.34E-05	2.48E-04	3.14E-04	8.87E-05	1.48E-04	3.32E-04	1.49E-04
Selenium	3.99E-07	3.99E-07	4.25E-07	1.65E-06	1.65E-06	1.23E-06	4.67E-07	1.24E-06	1.57E-06	4.43E-07	7.42E-07	1.66E-06	7.46E-07
Silver	7.99E-08	7.98E-08	8.50E-08	3.31E-07	3.31E-07	2.46E-07	9.34E-08	2.48E-07	3.14E-07	8.87E-08	1.48E-07	3.32E-07	1.49E-07
Sodium	2.00E-04	1.99E-04	2.12E-04	8.27E-04	8.27E-04	6.16E-04	2.33E-04	6.20E-04	7.84E-04	2.22E-04	3.71E-04	8.30E-04	3.73E-04
Strontium	1.12E-05	1.12E-05	1.19E-05	4.63E-05	4.63E-05	3.45E-05	1.31E-05	3.47E-05	4.39E-05	1.24E-05	2.08E-05	4.65E-05	2.09E-05
Thallium	7.99E-08	7.98E-08	8.50E-08	3.31E-07	3.31E-07	2.46E-07	9.34E-08	2.48E-07	3.14E-07	8.87E-08	1.48E-07	3.32E-07	1.49E-07
Tin	1.60E-06	1.60E-06	1.70E-06	6.62E-06	6.62E-06	4.92E-06	1.87E-06	4.96E-06	6.27E-06	1.77E-06	2.97E-06	6.64E-06	2.98E-06
Titanium	1.76E-03	1.76E-03	1.87E-03	7.28E-03	7.28E-03	5.42E-03	2.05E-03	5.46E-03	6.90E-03	1.95E-03	3.26E-03	7.31E-03	3.28E-03
Uranium	7.99E-08	7.98E-08	8.50E-08	3.31E-07	3.31E-07	2.46E-07	9.34E-08	2.48E-07	3.14E-07	8.87E-08	1.48E-07	3.32E-07	1.49E-07
Vanadium	7.99E-05	7.98E-05	8.50E-05	3.31E-04	3.31E-04	2.46E-04	9.34E-05	2.48E-04	3.14E-04	8.87E-05	1.48E-04	3.32E-04	1.49E-04
Zinc	4.71E-05	4.71E-05	5.01E-05	1.95E-04	1.95E-04	1.45E-04	5.51E-05	1.46E-04	1.85E-04	5.23E-05	8.75E-05	1.96E-04	8.80E-05

Note:
All concentrations are in g/m² /year.