

Data 6 Calculation of Risk Assessment

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**Data 6-1 Exposure Amount of Heavy Metals in Soil
by the On-site Risk Assessment**

Data 6-1
Exposure Amount of Heavy Metals in Soil
by the On-site Risk Assessment
(7) **(E: Exponent)**

400m Grid No.	Exposure Amount of Heavy Metals in Soil (mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/kg) ⁻¹)	3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06	mg/kg/day
SS N 06	6.0E-06	1.5E-07	1.5E-07	7.4E-05	1.6E-04	2.5E-04	4.9E-04
SS N 07	2.9E-05	1.5E-07	1.5E-07	2.3E-04	1.1E-04	2.2E-04	5.9E-04
SS N 08	3.1E-05	1.5E-07	1.5E-07	4.5E-04	1.1E-04	2.5E-04	8.5E-04
SS N 09	2.4E-05	1.5E-07	1.5E-07	3.6E-04	1.6E-04	2.2E-04	7.7E-04
SS N 10	1.7E-05	1.5E-07	1.5E-07	1.0E-04	1.2E-04	2.2E-04	4.6E-04
SS N 11	6.3E-06	1.5E-07	1.5E-07	2.4E-05	1.5E-04	3.0E-04	4.8E-04
SS N 12	1.0E-05	1.5E-07	1.5E-07	1.4E-05	1.5E-04	2.8E-04	4.5E-04
SS N 13	1.4E-05	1.5E-07	1.5E-07	1.7E-05	1.8E-04	2.3E-04	4.4E-04
SS N 14	4.5E-06	1.5E-07	1.5E-07	2.7E-05	1.2E-04	2.7E-04	4.2E-04
SS N 15	1.2E-05	1.5E-07	1.5E-07	3.7E-05	9.9E-05	2.6E-04	4.1E-04
SS N 16	1.4E-05	1.5E-07	1.5E-07	2.0E-05	1.3E-04	2.5E-04	4.2E-04
SS N 17	3.8E-05	1.5E-07	1.5E-07	2.0E-05	2.0E-04	3.4E-04	6.0E-04
SS N 18	1.7E-05	1.5E-07	1.5E-07	3.3E-05	1.6E-04	3.7E-04	5.9E-04
SS N 19	1.9E-05	1.5E-07	1.5E-07	2.4E-05	1.7E-04	2.6E-04	4.7E-04
SS N 20	9.2E-05	1.5E-07	1.5E-07	1.9E-05	2.0E-04	2.8E-04	5.9E-04
SS N 21	4.0E-05	1.5E-07	1.5E-07	7.5E-05	2.2E-04	3.5E-04	6.8E-04
SS N 22	3.5E-05	1.5E-07	1.5E-07	5.9E-05	2.6E-04	3.8E-04	7.3E-04
SS N 23	4.3E-05	7.8E-06	1.5E-07	9.8E-05	8.0E-04	1.1E-03	2.0E-03
SS N 24	1.7E-04	2.0E-05	1.5E-07	4.5E-05	5.2E-03	4.3E-03	9.7E-03
SS N 25	5.5E-04	1.5E-07	1.5E-07	4.4E-05	5.5E-03	1.8E-03	7.9E-03
SS N 26	5.5E-04	7.4E-05	1.5E-07	2.9E-05	1.0E-02	1.7E-02	2.8E-02
SS N 27	9.8E-04	1.7E-05	1.5E-07	6.7E-05	1.4E-02	7.6E-03	2.3E-02
SS N 28	6.9E-04	4.7E-05	1.5E-07	1.5E-07	8.9E-03	9.7E-03	1.9E-02
SS N 29	5.2E-05	1.5E-07	1.5E-07	4.7E-05	4.2E-04	4.9E-04	1.0E-03
SS N 30	8.6E-04	3.1E-05	1.5E-07	8.1E-06	1.2E-02	1.1E-02	2.3E-02
SS N 31	1.0E-03	5.9E-05	1.5E-07	2.6E-05	1.4E-02	1.5E-02	3.0E-02
SS N 32	8.5E-04	1.9E-05	1.5E-07	2.8E-05	2.1E-02	9.6E-03	3.2E-02
SS N 33	3.1E-04	4.1E-05	1.5E-07	3.6E-05	1.6E-02	9.9E-03	2.6E-02
SS N 34	2.0E-05	5.4E-06	1.5E-07	6.3E-05	2.1E-03	1.5E-03	3.7E-03
SS N 35	1.2E-04	3.1E-05	1.5E-07	3.2E-05	9.2E-03	7.5E-03	1.7E-02
SS N 36	1.1E-05	1.5E-07	1.5E-07	4.5E-06	7.3E-04	5.9E-04	1.3E-03
SS O 02	8.5E-05	1.5E-07	1.5E-07	5.7E-05	3.2E-04	2.4E-04	7.0E-04
SS O 03	1.0E-04	1.5E-07	1.5E-07	1.8E-05	3.3E-04	3.3E-04	7.7E-04
SS O 04	2.6E-05	1.5E-07	1.5E-07	4.4E-05	1.7E-04	2.5E-04	4.9E-04
SS O 05	2.7E-05	1.5E-07	1.5E-07	7.1E-05	1.9E-04	2.7E-04	5.6E-04
SS O 06	1.1E-05	1.5E-07	1.5E-07	1.0E-04	1.6E-04	2.3E-04	5.0E-04
SS O 07	4.7E-05	1.5E-07	1.5E-07	1.4E-04	2.1E-04	1.6E-04	5.6E-04
SS O 08	4.4E-05	1.5E-07	1.5E-07	3.8E-04	1.5E-04	2.7E-04	8.5E-04
SS O 09	8.3E-05	1.5E-07	1.5E-07	2.2E-04	1.4E-04	2.6E-04	7.1E-04
SS O 10	2.5E-05	1.5E-07	1.5E-07	2.5E-04	1.5E-04	3.2E-04	7.4E-04
SS O 11	6.3E-06	1.5E-07	1.5E-07	7.1E-05	4.2E-04	8.8E-04	1.4E-03
SS O 12	3.9E-06	1.5E-07	1.5E-07	5.4E-05	1.5E-04	4.6E-04	6.7E-04
SS O 13	9.0E-06	1.5E-07	1.5E-07	4.5E-05	1.8E-04	3.1E-04	5.4E-04
SS O 14	6.0E-06	1.5E-07	1.5E-07	3.4E-05	1.6E-04	3.1E-04	5.2E-04
SS O 15	1.5E-05	1.5E-07	1.5E-07	3.3E-05	2.7E-04	3.4E-04	6.6E-04
SS O 16	2.6E-05	1.5E-07	1.5E-07	4.1E-05	2.5E-04	2.6E-04	5.8E-04
SS O 17	2.3E-05	1.5E-07	1.5E-07	4.1E-05	2.4E-04	2.7E-04	5.7E-04
SS O 18	4.6E-05	1.5E-07	1.5E-07	4.6E-05	2.9E-04	3.0E-04	6.8E-04
SS O 19	8.0E-05	1.5E-07	1.5E-07	5.3E-05	4.3E-04	3.7E-04	9.4E-04
SS O 20	5.7E-05	1.5E-07	1.5E-07	6.3E-05	2.4E-04	2.9E-04	6.6E-04
SS O 21	2.6E-05	1.5E-07	1.5E-07	2.9E-05	3.0E-04	4.1E-04	7.6E-04

Data 6-1

**Exposure Amount of Heavy Metals in Soil
by the On-site Risk Assessment**

(14)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy Metals in Soil (mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/kg) ⁻¹)	3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06	mg/kg/day
SS Z 28	1.1E-04	2.3E-05	1.5E-07	3.1E-05	4.9E-04	1.4E-03	2.0E-03
SS Z 29	1.5E-04	3.9E-06	1.5E-07	6.0E-05	3.5E-04	5.9E-04	1.2E-03
SS Z 30	2.3E-05	4.6E-06	1.5E-07	2.3E-05	5.7E-04	2.0E-03	2.6E-03
SS Z 31	1.5E-06	4.8E-06	1.5E-07	2.3E-05	3.3E-04	8.5E-04	1.2E-03
SS Z 32	3.0E-05	4.6E-06	1.5E-07	5.1E-05	5.7E-04	2.0E-03	2.6E-03
SS Z 33	2.9E-05	4.0E-06	1.5E-07	2.6E-05	3.6E-04	1.9E-03	2.4E-03
SS a 24	4.2E-04	1.5E-07	1.5E-07	3.8E-05	4.9E-04	6.7E-04	1.6E-03
SS a 25	4.4E-04	1.5E-07	1.5E-07	2.0E-05	4.0E-03	3.1E-04	4.8E-03
SS a 26	8.4E-05	3.9E-06	1.5E-07	5.9E-05	7.5E-04	1.4E-03	2.3E-03
SS a 27	1.8E-04	1.5E-07	1.5E-07	2.5E-05	1.3E-04	3.0E-04	6.3E-04
SS a 28	1.3E-04	3.5E-05	1.5E-07	2.6E-05	9.6E-04	2.9E-03	4.1E-03
SS a 29	4.5E-05	5.9E-06	1.5E-07	6.8E-05	5.8E-04	9.4E-04	1.6E-03
SS a 30	5.6E-05	1.3E-05	1.5E-07	1.3E-05	1.3E-03	2.4E-03	3.8E-03
SS a 31	1.1E-05	7.1E-06	1.5E-07	2.8E-05	6.0E-04	2.1E-03	2.7E-03
SS a 32	6.5E-06	1.5E-07	1.5E-07	7.1E-05	4.3E-04	6.9E-04	1.2E-03
SS a 33	1.9E-05	1.5E-07	1.5E-07	4.0E-05	2.5E-04	1.5E-03	1.8E-03
Maximum	2.2E-03	1.4E-04	7.0E-07	8.5E-04	6.4E-02	3.1E-02	9.5E-02
Minimum	1.5E-07	0.0E+00	1.5E-07	1.5E-07	4.8E-05	3.4E-05	1.9E-04
Average	1.0E-04	2.8E-06	1.5E-07	8.8E-05	7.8E-04	7.9E-04	1.8E-03

**Data 6-2 Exposure Amount of Heavy Metals in
(drinking) Groundwater**

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(1)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy Metals in Groundwater (mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS A 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS A 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS A 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS A 16	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS A 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS A 18	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS A 19	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS A 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS A 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS A 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS A 23	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS A 24	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS A 25	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS B 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS B 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS B 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS B 16	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS B 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 18	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 19	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 23	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 24	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS B 25	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 11	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS C 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS C 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS C 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS C 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS C 16	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS C 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 18	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 19	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 23	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 24	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS C 25	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 10	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS D 11	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS D 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS D 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS D 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS D 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS D 16	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS D 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 18	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(2)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS D 19	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 23	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 24	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 25	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 9	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS E 10	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 11	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 16	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 18	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 19	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 23	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 24	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS E 25	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS F 9	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS F 10	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS F 11	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 16	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 18	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 19	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 23	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS F 24	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS F 25	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 9	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 10	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 11	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 16	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS G 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS G 18	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(3)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS G 19	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS G 21	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 22	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 23	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 24	4.2E-04	1.3E-05	2.1E-06	1.6E-03	5.9E-04	4.2E-04	3.1E-03
SS G 25	4.2E-04	1.3E-05	2.1E-06	1.6E-03	5.9E-04	4.2E-04	3.1E-03
SS G 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS G 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 9	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 10	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 11	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS H 12	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS H 13	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS H 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS H 15	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 16	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 18	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 19	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 20	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 21	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 22	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 23	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS H 24	4.2E-04	1.3E-05	2.1E-06	1.6E-03	5.9E-04	4.2E-04	3.1E-03
SS H 25	4.2E-04	1.3E-05	2.1E-06	1.6E-03	5.9E-04	4.2E-04	3.1E-03
SS H 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS H 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS I 8	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS I 9	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS I 10	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS I 11	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS I 12	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(5)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS J 34	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-04
SS J 35	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-04
SS J 36	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-04
SS K 06	4.2E-04	8.4E-06	2.1E-06	1.5E-03	8.8E-04	4.2E-04	3.2E-03
SS K 07	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS K 08	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS K 09	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS K 10	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS K 11	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS K 12	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS K 13	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS K 14	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS K 15	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS K 16	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS K 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS K 18	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS K 19	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS K 20	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS K 21	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS K 22	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS K 23	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS K 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 18	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS L 19	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS L 20	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS L 21	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(7)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS N 06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 18	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS N 19	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 20	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 21	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 22	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 23	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 18	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS O 19	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS O 20	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS O 21	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(9)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS Q 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 04	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 05	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 06	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 18	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS Q 19	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS Q 20	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS Q 21	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS Q 22	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS Q 23	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS Q 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 04	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 05	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 06	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS R 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 18	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(10)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS R 19	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 20	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 21	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 22	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 23	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS S 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS S 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS S 04	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS S 05	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS S 06	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS S 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 18	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 19	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 20	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 21	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 22	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 23	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS T 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS T 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS T 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(12)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS U 22	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 23	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS U 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 04	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 05	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 06	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 07	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 08	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 09	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 10	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS V 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 18	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 19	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 20	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 21	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 22	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 23	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS V 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS W 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS W 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS W 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS W 04	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS W 05	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS W 06	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03

**Data 6-2 Exposure Amount of Heavy Metals in (drinking)
Groundwater**

(14)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS Z 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Z 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Z 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Z 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Z 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Z 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS a 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Maximum	5.5E-04	1.7E-05	4.6E-06	2.1E-03	8.8E-04	2.1E-03	2.1E-03
Minimum	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Average	1.8E-04	4.0E-06	9.2E-07	5.5E-04	2.4E-04	2.5E-04	2.5E-04

**Data 6-3 Total Exposure Amount of Heavy Metals in
Soil and (drinking) Groundwater**

Data 6-3 Total Exposure Amount of Heavy Metals in Soil and (drinking) Groundwater
(1) (E: Exponent)

400m Grid No.	Exposure Amount of Heavy Metals in Groundwater (mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L)⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS A 13	9.2E-05	1.3E-05	2.3E-06	1.2E-03	7.4E-04	6.8E-04	2.8E-03
SS A 14	9.2E-05	1.6E-05	2.3E-06	1.2E-03	7.3E-04	6.9E-04	2.8E-03
SS A 15	8.0E-05	1.6E-05	2.3E-06	1.3E-03	7.3E-04	6.6E-04	2.8E-03
SS A 16	7.4E-05	1.6E-05	2.3E-06	1.2E-03	7.8E-04	6.5E-04	2.8E-03
SS A 17	4.5E-04	8.6E-06	2.3E-06	1.1E-03	7.4E-04	7.0E-04	3.0E-03
SS A 18	4.7E-04	1.1E-05	2.3E-06	1.3E-03	7.3E-04	7.5E-04	3.3E-03
SS A 19	4.5E-04	1.1E-05	2.3E-06	1.3E-03	7.1E-04	6.3E-04	3.1E-03
SS A 20	4.7E-04	8.6E-06	2.3E-06	1.2E-03	6.9E-04	6.0E-04	3.0E-03
SS A 21	4.6E-04	8.6E-06	2.3E-06	1.2E-03	7.4E-04	6.2E-04	3.0E-03
SS A 22	4.7E-04	8.6E-06	2.3E-06	1.1E-03	7.2E-04	7.1E-04	3.0E-03
SS A 23	4.4E-04	8.6E-06	2.3E-06	1.2E-03	7.0E-04	6.4E-04	3.0E-03
SS A 24	4.4E-04	8.6E-06	2.3E-06	1.2E-03	7.9E-04	7.7E-04	3.2E-03
SS A 25	4.5E-04	1.1E-05	2.3E-06	1.2E-03	7.7E-04	7.3E-04	3.2E-03
SS B 12	1.4E-04	1.3E-05	2.3E-06	1.2E-03	7.5E-04	6.7E-04	2.8E-03
SS B 13	1.5E-04	1.3E-05	2.3E-06	1.2E-03	7.7E-04	7.2E-04	2.9E-03
SS B 14	9.8E-05	1.3E-05	2.3E-06	1.2E-03	7.4E-04	6.9E-04	2.8E-03
SS B 15	7.1E-05	1.3E-05	2.3E-06	1.3E-03	7.4E-04	7.6E-04	2.9E-03
SS B 16	6.8E-05	1.3E-05	2.3E-06	1.3E-03	7.0E-04	6.3E-04	2.7E-03
SS B 17	4.3E-04	8.6E-06	2.3E-06	1.2E-03	7.6E-04	6.7E-04	3.1E-03
SS B 18	4.6E-04	8.6E-06	2.3E-06	1.4E-03	7.2E-04	6.7E-04	3.3E-03
SS B 19	4.7E-04	8.6E-06	2.3E-06	1.3E-03	7.3E-04	6.7E-04	3.2E-03
SS B 20	4.5E-04	8.6E-06	2.3E-06	1.3E-03	7.1E-04	7.0E-04	3.2E-03
SS B 21	4.6E-04	8.6E-06	2.3E-06	1.2E-03	7.3E-04	6.3E-04	3.0E-03
SS B 22	4.7E-04	8.6E-06	2.3E-06	1.3E-03	7.0E-04	6.7E-04	3.2E-03
SS B 23	4.6E-04	8.6E-06	2.3E-06	1.2E-03	7.3E-04	6.5E-04	3.1E-03
SS B 24	4.5E-04	8.6E-06	2.3E-06	1.2E-03	7.0E-04	6.5E-04	3.0E-03
SS B 25	4.5E-04	8.6E-06	2.3E-06	1.2E-03	7.2E-04	6.3E-04	3.0E-03
SS C 11	6.8E-05	1.6E-05	2.3E-06	1.2E-03	7.7E-04	6.3E-04	2.7E-03
SS C 12	9.8E-05	1.3E-05	2.3E-06	1.2E-03	7.4E-04	6.7E-04	2.8E-03
SS C 13	8.0E-05	1.6E-05	2.3E-06	1.2E-03	7.4E-04	6.7E-04	2.8E-03
SS C 14	6.2E-05	1.3E-05	2.3E-06	1.3E-03	7.4E-04	8.4E-04	2.9E-03
SS C 15	9.5E-05	1.3E-05	2.3E-06	1.4E-03	7.4E-04	7.7E-04	3.0E-03
SS C 16	7.4E-05	1.3E-05	2.3E-06	1.2E-03	7.4E-04	7.4E-04	2.8E-03
SS C 17	4.6E-04	8.6E-06	2.3E-06	1.3E-03	7.4E-04	6.9E-04	3.1E-03
SS C 18	4.7E-04	8.6E-06	2.3E-06	1.3E-03	7.6E-04	6.9E-04	3.2E-03
SS C 19	4.6E-04	8.6E-06	2.3E-06	1.4E-03	7.4E-04	6.5E-04	3.3E-03
SS C 20	4.4E-04	8.6E-06	2.3E-06	1.3E-03	7.7E-04	7.4E-04	3.2E-03
SS C 21	5.0E-04	8.6E-06	2.3E-06	1.2E-03	7.2E-04	7.0E-04	3.1E-03
SS C 22	4.8E-04	1.1E-05	2.3E-06	1.2E-03	7.3E-04	6.6E-04	3.0E-03
SS C 23	4.3E-04	8.6E-06	2.3E-06	1.1E-03	6.4E-04	5.0E-04	2.7E-03
SS C 24	4.3E-04	8.6E-06	2.3E-06	1.1E-03	7.0E-04	6.6E-04	2.9E-03
SS C 25	4.5E-04	8.6E-06	2.3E-06	1.1E-03	7.1E-04	6.8E-04	2.9E-03
SS D 10	8.3E-05	1.3E-05	2.3E-06	1.2E-03	7.6E-04	6.8E-04	2.8E-03
SS D 11	1.3E-04	1.3E-05	2.3E-06	1.2E-03	7.4E-04	6.2E-04	2.7E-03
SS D 12	7.7E-05	1.3E-05	2.3E-06	1.3E-03	7.2E-04	6.5E-04	2.7E-03
SS D 13	8.3E-05	1.3E-05	2.3E-06	1.3E-03	7.3E-04	6.5E-04	2.8E-03
SS D 14	7.1E-05	1.3E-05	2.3E-06	1.4E-03	7.4E-04	7.0E-04	2.9E-03
SS D 15	6.8E-05	1.3E-05	2.3E-06	1.2E-03	7.6E-04	6.9E-04	2.8E-03
SS D 16	9.2E-05	1.3E-05	2.3E-06	1.3E-03	7.4E-04	6.7E-04	2.8E-03
SS D 17	4.4E-04	8.6E-06	2.3E-06	1.3E-03	7.3E-04	7.5E-04	3.2E-03
SS D 18	4.6E-04	8.6E-06	2.3E-06	1.3E-03	7.2E-04	6.5E-04	3.1E-03

**Data 6-3 Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater**

(2) (E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume (mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS D 19	4.5E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 23	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 24	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS D 25	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 9	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS E 10	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 11	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 16	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS E 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 18	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 19	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 23	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS E 24	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS E 25	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS F 9	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS F 10	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS F 11	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS F 16	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 18	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 19	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 21	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 22	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS F 23	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS F 24	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS F 25	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 9	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 10	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 11	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 12	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 13	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 15	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS G 16	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS G 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS G 18	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03

**Data 6-3 Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater**

(3) (E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume (mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS G 19	6.2E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 20	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS G 21	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 22	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 23	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS G 24	4.2E-04	1.3E-05	2.1E-06	1.6E-03	5.9E-04	4.2E-04	3.1E-03
SS G 25	4.2E-04	1.3E-05	2.1E-06	1.6E-03	5.9E-04	4.2E-04	3.1E-03
SS G 26	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS G 27	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS G 28	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS G 29	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS G 30	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS G 31	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS G 32	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS G 33	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS G 34	5.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-04
SS G 35	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-04
SS G 36	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-04
SS H 9	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 10	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 11	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS H 12	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS H 13	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS H 14	3.8E-05	1.3E-05	2.1E-06	1.2E-03	5.9E-04	4.2E-04	2.2E-03
SS H 15	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 16	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS H 18	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 19	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 20	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 21	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 22	4.6E-04	4.2E-06	4.6E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS H 23	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS H 24	4.2E-04	1.3E-05	2.1E-06	1.6E-03	5.9E-04	4.2E-04	3.1E-03
SS H 25	4.2E-04	1.3E-05	2.1E-06	1.6E-03	5.9E-04	4.2E-04	3.1E-03
SS H 26	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS H 27	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS H 28	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS H 29	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS H 30	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS H 31	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS H 32	4.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-04
SS H 33	5.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-04
SS H 34	5.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-04
SS H 35	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-04
SS H 36	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-04
SS I 8	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS I 9	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E-03
SS I 10	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS I 11	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03
SS I 12	3.8E-04	8.4E-06	2.1E-06	1.1E-03	4.6E-04	4.2E-04	2.4E-03

Data 6-3

**Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater**

(5)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS J 34	5.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E -04
SS J 35	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E -04
SS J 36	4.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E -04
SS K 06	4.2E-04	8.4E-06	2.1E-06	1.5E-03	8.8E-04	4.2E-04	3.2E -03
SS K 07	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E -03
SS K 08	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E -03
SS K 09	4.2E-04	8.4E-06	2.1E-06	1.4E-03	4.2E-04	4.2E-04	2.7E -03
SS K 10	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E -03
SS K 11	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E -03
SS K 12	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E -03
SS K 13	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E -03
SS K 14	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E -03
SS K 15	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E -03
SS K 16	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E -03
SS K 17	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E -03
SS K 18	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E -03
SS K 19	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E -03
SS K 20	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E -03
SS K 21	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E -03
SS K 22	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E -03
SS K 23	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E -03
SS K 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS K 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS L 18	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E -03
SS L 19	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E -03
SS L 20	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E -03
SS L 21	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E -03

Data 6-3 **Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater**
(7) (E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS N 06	6.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 18	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS N 19	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 20	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 21	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 22	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 23	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS N 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS N 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS O 18	4.6E-04	8.4E-06	2.1E-06	1.4E-03	7.6E-04	4.2E-04	3.0E-03
SS O 19	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS O 20	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS O 21	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03

**Data 6-3 Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater**

(9) **(E: Exponent)**

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume (mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS Q 01	4.6E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 04	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 05	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 06	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS Q 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 18	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS Q 19	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03
SS Q 20	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS Q 21	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS Q 22	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS Q 23	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS Q 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS Q 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 04	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 05	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS R 06	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS R 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 18	5.5E-04	1.7E-05	2.1E-06	1.9E-03	7.1E-04	2.1E-03	5.3E-03

Data 6-3

**Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater**

(10)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L)⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS R 19	5.0E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 20	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 21	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 22	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 23	4.6E-04	8.4E-06	2.1E-06	2.1E-03	5.5E-04	4.2E-04	3.5E-03
SS R 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS R 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS S 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS S 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS S 04	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS S 05	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS S 06	4.2E-04	8.4E-06	2.1E-06	1.1E-03	5.9E-04	4.2E-04	2.5E-03
SS S 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 18	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 19	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 20	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 21	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 22	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 23	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS S 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SS T 01	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS T 02	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03
SS T 03	4.2E-04	8.4E-06	2.1E-06	1.4E-03	5.5E-04	4.2E-04	2.8E-03

Data 6-3

**Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater**

(12)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS U 22	5.5E-05	4.3E-06	1.5E-07	6.6E-05	1.3E-03	1.1E-03	2.6E-03
SS U 23	2.0E-04	3.2E-06	1.5E-07	2.4E-05	1.7E-03	1.3E-03	3.1E-03
SS U 24	5.6E-04	1.5E-07	1.5E-07	3.0E-05	1.9E-04	4.2E-04	1.2E-03
SS U 25	2.1E-04	1.5E-07	1.5E-07	2.2E-05	9.6E-05	1.9E-04	5.2E-04
SS U 26	3.3E-04	1.5E-07	1.5E-07	1.4E-05	9.1E-05	1.8E-04	6.2E-04
SS U 27	2.1E-03	2.8E-06	1.5E-07	2.0E-05	1.2E-04	1.9E-04	2.5E-03
SS U 28	3.6E-05	1.5E-07	1.5E-07	6.1E-05	1.1E-03	5.4E-04	1.7E-03
SS U 29	5.4E-05	1.5E-07	1.5E-07	5.9E-05	2.4E-04	3.1E-04	6.6E-04
SS U 30	1.3E-04	1.3E-05	1.5E-07	2.9E-05	4.8E-03	3.0E-03	7.9E-03
SS U 31	2.8E-04	1.5E-07	1.5E-07	1.3E-05	1.4E-04	4.0E-04	8.4E-04
SS U 32	3.4E-04	1.5E-07	1.5E-07	2.0E-05	1.2E-04	3.2E-04	8.0E-04
SS U 33	2.4E-04	1.5E-07	1.5E-07	2.8E-05	1.6E-04	3.0E-04	7.3E-04
SS V 01	4.6E-04	1.5E-05	2.3E-06	1.5E-03	1.9E-03	1.8E-03	5.7E-03
SS V 02	4.8E-04	1.9E-05	2.3E-06	1.5E-03	2.4E-03	3.4E-03	7.8E-03
SS V 03	4.9E-04	1.8E-05	2.3E-06	1.4E-03	2.2E-03	2.6E-03	6.8E-03
SS V 04	4.9E-04	2.2E-05	2.3E-06	1.4E-03	2.6E-03	3.2E-03	7.7E-03
SS V 05	5.1E-04	8.6E-06	2.3E-06	1.5E-03	7.5E-04	1.1E-03	3.9E-03
SS V 06	4.7E-04	8.6E-06	2.3E-06	1.5E-03	7.2E-04	8.4E-04	3.5E-03
SS V 07	5.4E-04	8.6E-06	2.3E-06	1.4E-03	7.1E-04	9.1E-04	3.6E-03
SS V 08	4.9E-04	8.6E-06	2.3E-06	1.4E-03	7.2E-04	7.3E-04	3.4E-03
SS V 09	4.9E-04	8.6E-06	2.3E-06	1.4E-03	7.0E-04	7.6E-04	3.4E-03
SS V 10	4.9E-04	8.6E-06	2.3E-06	1.5E-03	6.9E-04	8.9E-04	3.5E-03
SS V 11	2.2E-05	1.5E-07	1.5E-07	1.8E-05	1.3E-04	2.7E-04	4.4E-04
SS V 12	3.5E-05	1.5E-07	1.5E-07	1.5E-05	1.3E-04	2.5E-04	4.3E-04
SS V 13	2.0E-05	1.5E-07	1.5E-07	1.8E-05	1.6E-04	2.3E-04	4.2E-04
SS V 14	3.2E-05	1.5E-07	1.5E-07	2.1E-05	1.0E-04	2.8E-04	4.3E-04
SS V 15	1.1E-05	1.5E-07	1.5E-07	2.7E-05	5.5E-05	2.3E-04	3.3E-04
SS V 16	5.0E-05	1.5E-07	1.5E-07	6.3E-06	2.0E-04	1.9E-04	4.4E-04
SS V 17	2.2E-05	1.5E-07	1.5E-07	1.0E-04	1.3E-04	2.7E-04	5.2E-04
SS V 18	2.1E-05	1.5E-07	1.5E-07	4.6E-05	1.6E-04	3.3E-04	5.6E-04
SS V 19	6.0E-06	1.5E-07	1.5E-07	2.1E-05	9.3E-05	3.0E-04	4.2E-04
SS V 20	2.3E-05	1.5E-07	1.5E-07	3.6E-05	1.1E-04	3.0E-04	4.7E-04
SS V 21	8.8E-05	1.5E-07	1.5E-07	2.3E-05	1.1E-04	2.9E-04	5.1E-04
SS V 22	1.9E-05	1.5E-07	1.5E-07	2.7E-05	1.1E-04	3.1E-04	4.7E-04
SS V 23	3.1E-05	1.5E-07	1.5E-07	3.6E-05	1.8E-04	3.3E-04	5.8E-04
SS V 24	5.6E-05	6.0E-06	1.5E-07	3.8E-05	2.3E-03	1.5E-03	3.9E-03
SS V 25	1.0E-04	3.0E-06	1.5E-07	3.3E-05	9.5E-04	8.3E-04	1.9E-03
SS V 26	2.8E-04	1.5E-07	1.5E-07	3.6E-05	4.5E-04	4.8E-04	1.2E-03
SS V 27	2.6E-04	1.5E-07	1.5E-07	2.0E-05	1.9E-04	2.5E-04	7.2E-04
SS V 28	1.1E-04	5.4E-06	1.5E-07	3.6E-05	2.4E-03	1.6E-03	4.2E-03
SS V 29	3.2E-04	1.5E-07	1.5E-07	3.2E-05	1.3E-04	4.1E-04	8.9E-04
SS V 30	1.4E-04	1.5E-07	1.5E-07	1.9E-04	1.9E-04	3.3E-04	8.4E-04
SS V 31	2.1E-04	1.5E-07	1.5E-07	8.9E-05	1.5E-04	3.4E-04	8.0E-04
SS V 32	2.0E-04	1.5E-07	1.5E-07	2.6E-05	2.0E-04	2.9E-04	7.2E-04
SS V 33	5.3E-05	1.5E-07	1.5E-07	3.5E-05	1.5E-04	2.8E-04	5.2E-04
SS W 01	5.3E-04	3.0E-05	2.3E-06	1.5E-03	4.0E-03	4.2E-03	1.0E-02
SS W 02	5.2E-04	3.1E-05	2.3E-06	1.4E-03	4.4E-03	4.7E-03	1.1E-02
SS W 03	4.9E-04	8.6E-06	2.3E-06	1.4E-03	7.1E-04	7.6E-04	3.4E-03
SS W 04	5.2E-04	8.6E-06	2.3E-06	1.5E-03	7.4E-04	7.1E-04	3.4E-03
SS W 05	5.2E-04	8.6E-06	2.3E-06	1.5E-03	7.4E-04	9.0E-04	3.6E-03
SS W 06	5.0E-04	8.6E-06	2.3E-06	1.5E-03	7.6E-04	8.0E-04	3.5E-03

Data 6-3

Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater

(13)

(E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS W 07	5.2E-04	8.6E-06	2.3E-06	1.5E-03	7.5E-04	8.9E-04	3.6E-03
SS W 08	5.2E-04	8.6E-06	2.3E-06	1.5E-03	7.5E-04	8.9E-04	3.6E-03
SS W 09	5.7E-04	8.6E-06	2.3E-06	1.4E-03	6.6E-04	6.2E-04	3.3E-03
SS W 10	4.4E-04	8.6E-06	2.3E-06	1.4E-03	6.4E-04	6.5E-04	3.2E-03
SS W 11	1.3E-05	1.5E-07	1.5E-07	4.9E-05	1.0E-04	2.2E-04	3.9E-04
SS W 12	3.9E-05	1.5E-07	1.5E-07	3.7E-05	1.2E-04	1.9E-04	3.9E-04
SS W 13	3.9E-05	1.5E-07	1.5E-07	3.6E-05	1.4E-04	2.1E-04	4.3E-04
SS W 14	1.7E-05	1.5E-07	1.5E-07	3.0E-05	1.1E-04	2.2E-04	3.8E-04
SS W 15	2.7E-05	1.5E-07	1.5E-07	3.2E-05	7.2E-05	2.1E-04	3.4E-04
SS W 16	5.4E-06	1.5E-07	1.5E-07	3.0E-05	6.5E-05	2.2E-04	3.2E-04
SS W 17	1.0E-05	1.5E-07	1.5E-07	3.9E-05	1.2E-04	2.1E-04	3.8E-04
SS W 18	2.2E-05	1.5E-07	1.5E-07	2.5E-05	1.0E-04	2.0E-04	3.6E-04
SS W 19	6.7E-05	1.5E-07	1.5E-07	5.0E-05	1.1E-04	2.4E-04	4.6E-04
SS W 20	7.2E-05	1.5E-07	1.5E-07	3.1E-05	8.3E-05	2.6E-04	4.4E-04
SS W 21	2.2E-05	1.5E-07	1.5E-07	3.8E-05	1.1E-04	2.5E-04	4.3E-04
SS W 22	2.3E-05	1.5E-07	1.5E-07	4.5E-05	1.3E-04	3.5E-04	5.5E-04
SS W 23	5.1E-05	1.5E-07	1.5E-07	3.0E-05	1.2E-04	4.0E-04	6.0E-04
SS W 24	6.3E-05	1.5E-07	1.5E-07	3.3E-05	1.2E-04	3.3E-04	5.4E-04
SS W 25	2.1E-04	1.5E-07	1.5E-07	5.4E-05	2.9E-04	5.5E-04	1.1E-03
SS W 26	5.2E-05	1.5E-07	1.5E-07	7.7E-05	3.8E-04	6.4E-04	1.1E-03
SS W 27	2.8E-04	1.5E-07	1.5E-07	1.0E-04	9.1E-04	1.4E-03	2.7E-03
SS W 28	1.2E-03	1.5E-07	1.5E-07	1.0E-04	1.5E-04	2.8E-04	1.8E-03
SS W 29	5.6E-04	1.5E-07	1.5E-07	8.5E-04	2.7E-04	4.8E-04	2.2E-03
SS W 30	7.5E-04	1.5E-07	1.5E-07	3.1E-04	2.0E-04	4.4E-04	1.7E-03
SS W 31	1.6E-04	1.5E-07	1.5E-07	2.5E-04	1.6E-04	3.5E-04	9.2E-04
SS W 32	1.5E-04	1.5E-07	1.5E-07	3.2E-05	2.1E-04	5.0E-04	8.9E-04
SS W 33	2.0E-04	1.5E-07	1.5E-07	3.9E-05	2.2E-04	4.8E-04	9.4E-04
SS X 24	4.5E-05	1.5E-07	1.5E-07	2.8E-05	1.2E-04	3.0E-04	4.9E-04
SS X 25	2.9E-04	1.5E-07	1.5E-07	7.2E-05	1.5E-04	3.5E-04	8.6E-04
SS X 26	1.2E-04	1.5E-07	1.5E-07	1.4E-05	7.7E-05	2.1E-04	4.2E-04
SS X 27	4.5E-05	1.5E-07	1.5E-07	8.8E-05	3.9E-04	6.8E-04	1.2E-03
SS X 28	3.0E-04	3.0E-06	1.5E-07	4.3E-04	1.9E-04	2.7E-04	1.2E-03
SS X 29	3.9E-04	1.5E-07	1.5E-07	1.9E-04	1.6E-04	2.5E-04	9.8E-04
SS X 30	2.8E-04	1.5E-07	1.5E-07	1.0E-04	1.8E-04	2.5E-04	8.1E-04
SS X 31	1.8E-04	1.5E-07	1.5E-07	3.0E-05	1.6E-04	2.4E-04	6.1E-04
SS X 32	2.4E-05	1.5E-07	1.5E-07	5.5E-05	1.4E-04	2.4E-04	4.6E-04
SS X 33	1.3E-04	1.5E-07	1.5E-07	1.8E-05	1.6E-04	2.1E-04	5.2E-04
SS Y 24	3.2E-04	1.5E-07	1.5E-07	3.7E-05	1.4E-04	5.3E-04	1.0E-03
SS Y 25	6.7E-04	1.5E-07	1.5E-07	3.0E-05	1.3E-04	3.9E-04	1.2E-03
SS Y 26	3.0E-04	1.5E-07	1.5E-07	3.7E-05	1.9E-04	2.7E-04	8.0E-04
SS Y 27	1.8E-04	1.5E-07	1.5E-07	3.0E-05	1.6E-04	3.0E-04	6.7E-04
SS Y 28	1.4E-04	1.5E-07	1.5E-07	5.9E-05	4.3E-04	5.9E-04	1.2E-03
SS Y 29	1.3E-04	1.5E-07	1.5E-07	6.4E-05	3.8E-04	7.5E-04	1.3E-03
SS Y 30	1.4E-04	1.5E-07	1.5E-07	4.4E-05	2.8E-04	5.1E-04	9.7E-04
SS Y 31	9.9E-05	3.5E-06	1.5E-07	3.7E-05	3.7E-04	1.3E-03	1.8E-03
SS Y 32	5.8E-05	5.3E-06	1.5E-07	5.9E-05	7.0E-04	1.8E-03	2.7E-03
SS Y 33	4.6E-05	5.3E-06	1.5E-07	3.9E-05	4.3E-04	1.7E-03	2.3E-03
SS Z 24	4.1E-04	1.5E-07	1.5E-07	4.6E-05	2.8E-04	9.1E-04	1.7E-03
SS Z 25	1.1E-03	1.5E-07	3.2E-07	1.9E-05	8.7E-04	4.7E-04	2.4E-03
SS Z 26	4.4E-04	1.5E-07	7.0E-07	4.0E-05	6.2E-04	9.8E-04	2.1E-03
SS Z 27	1.9E-04	1.5E-07	1.5E-07	3.5E-05	2.1E-04	3.4E-04	7.7E-04

**Data 6-3 Total Exposure Amount of Heavy Metals in Soil
and (drinking) Groundwater**

(14) (E: Exponent)

400m Grid No.	Exposure Amount of Heavy (Metals/Water : mg/kg/day)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total amount of heavy metals
Unit of exposure volume ((mg/kg/day) *(1mg/L) ⁻¹)	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	4.2E-02	mg/kg/day
SS Z 28	1.1E-04	2.3E-05	1.5E-07	3.1E-05	4.9E-04	1.4E-03	2.0E-03
SS Z 29	1.5E-04	3.9E-06	1.5E-07	6.0E-05	3.5E-04	5.9E-04	1.2E-03
SS Z 30	2.3E-05	4.6E-06	1.5E-07	2.3E-05	5.7E-04	2.0E-03	2.6E-03
SS Z 31	1.5E-06	4.8E-06	1.5E-07	2.3E-05	3.3E-04	8.5E-04	1.2E-03
SS Z 32	3.0E-05	4.6E-06	1.5E-07	5.1E-05	5.7E-04	2.0E-03	2.6E-03
SS Z 33	2.9E-05	4.0E-06	1.5E-07	2.6E-05	3.6E-04	1.9E-03	2.4E-03
SS a 24	4.2E-04	1.5E-07	1.5E-07	3.8E-05	4.9E-04	6.7E-04	1.6E-03
SS a 25	4.4E-04	1.5E-07	1.5E-07	2.0E-05	4.0E-03	3.1E-04	4.8E-03
SS a 26	8.4E-05	3.9E-06	1.5E-07	5.9E-05	7.5E-04	1.4E-03	2.3E-03
SS a 27	1.8E-04	1.5E-07	1.5E-07	2.5E-05	1.3E-04	3.0E-04	6.3E-04
SS a 28	1.3E-04	3.5E-05	1.5E-07	2.6E-05	9.6E-04	2.9E-03	4.1E-03
SS a 29	4.5E-05	5.9E-06	1.5E-07	6.8E-05	5.8E-04	9.4E-04	1.6E-03
SS a 30	5.6E-05	1.3E-05	1.5E-07	1.3E-05	1.3E-03	2.4E-03	3.8E-03
SS a 31	1.1E-05	7.1E-06	1.5E-07	2.8E-05	6.0E-04	2.1E-03	2.7E-03
SS a 32	6.5E-06	1.5E-07	1.5E-07	7.1E-05	4.3E-04	6.9E-04	1.2E-03
SS a 33	1.9E-05	1.5E-07	1.5E-07	4.0E-05	2.5E-04	1.5E-03	1.8E-03
Maximum	5.5E-04	1.7E-05	4.6E-06	2.1E-03	8.8E-04	2.1E-03	2.1E-03
Minimum	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Average	1.8E-04	4.0E-06	9.2E-07	5.5E-04	2.4E-04	2.5E-04	2.5E-04

Data 6-4 Exposure Risk of Heavy Metals in Soil

Data 6-4

Exposure Risk of Heavy Metals in Soil

(1)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS A 13	2.7E-02	1.5E-04	8.8E-04	5.0E-03	4.5E-02	1.2E-02	9.0E-02
SS A 14	2.7E-02	3.0E-03	8.8E-04	5.8E-03	3.9E-02	1.3E-02	8.9E-02
SS A 15	2.1E-02	3.0E-03	8.8E-04	7.5E-03	4.0E-02	1.1E-02	8.4E-02
SS A 16	1.8E-02	3.0E-03	8.8E-04	4.3E-03	5.5E-02	1.1E-02	9.2E-02
SS A 17	1.7E-02	1.5E-04	8.8E-04	5.3E-03	4.5E-02	1.3E-02	8.1E-02
SS A 18	2.4E-02	3.0E-03	8.8E-04	2.2E-02	3.9E-02	1.6E-02	1.0E-01
SS A 19	1.5E-02	3.0E-03	8.8E-04	2.1E-02	3.4E-02	1.0E-02	8.4E-02
SS A 20	2.3E-02	1.5E-04	8.8E-04	1.6E-02	2.9E-02	8.7E-03	7.7E-02
SS A 21	1.8E-02	1.5E-04	8.8E-04	9.3E-03	4.3E-02	9.3E-03	8.0E-02
SS A 22	2.4E-02	1.5E-04	8.8E-04	7.8E-03	3.9E-02	1.4E-02	8.5E-02
SS A 23	1.2E-02	1.5E-04	8.8E-04	1.2E-02	3.3E-02	1.0E-02	6.8E-02
SS A 24	1.2E-02	1.5E-04	8.8E-04	1.5E-02	5.7E-02	1.7E-02	1.0E-01
SS A 25	1.5E-02	3.0E-03	8.8E-04	1.5E-02	5.3E-02	1.5E-02	1.0E-01
SS B 12	5.3E-02	1.5E-04	8.8E-04	4.5E-03	4.7E-02	1.2E-02	1.2E-01
SS B 13	5.7E-02	1.5E-04	8.8E-04	2.8E-03	5.1E-02	1.4E-02	1.3E-01
SS B 14	3.0E-02	1.5E-04	8.8E-04	4.0E-03	4.3E-02	1.3E-02	9.1E-02
SS B 15	1.7E-02	1.5E-04	8.8E-04	8.0E-03	4.3E-02	1.6E-02	8.5E-02
SS B 16	1.5E-02	1.5E-04	8.8E-04	1.0E-02	3.3E-02	1.0E-02	6.9E-02
SS B 17	7.4E-03	1.5E-04	8.8E-04	1.3E-02	4.9E-02	1.2E-02	8.2E-02
SS B 18	1.8E-02	1.5E-04	8.8E-04	3.3E-02	3.7E-02	1.2E-02	1.0E-01
SS B 19	2.3E-02	1.5E-04	8.8E-04	2.3E-02	4.1E-02	1.2E-02	1.0E-01
SS B 20	1.5E-02	1.5E-04	8.8E-04	2.1E-02	3.6E-02	1.3E-02	8.6E-02
SS B 21	1.8E-02	1.5E-04	8.8E-04	1.1E-02	4.1E-02	9.9E-03	8.1E-02
SS B 22	2.3E-02	1.5E-04	8.8E-04	2.2E-02	3.3E-02	1.2E-02	9.0E-02
SS B 23	1.8E-02	1.5E-04	8.8E-04	1.5E-02	4.1E-02	1.1E-02	8.6E-02
SS B 24	1.4E-02	1.5E-04	8.8E-04	9.8E-03	3.3E-02	1.1E-02	6.8E-02
SS B 25	1.7E-02	1.5E-04	8.8E-04	1.0E-02	3.7E-02	9.9E-03	7.4E-02
SS C 11	1.5E-02	3.0E-03	8.8E-04	4.8E-03	5.3E-02	1.0E-02	8.7E-02
SS C 12	3.0E-02	1.5E-04	8.8E-04	4.5E-03	4.5E-02	1.2E-02	9.2E-02
SS C 13	2.1E-02	3.0E-03	8.8E-04	6.0E-03	4.2E-02	1.2E-02	8.5E-02
SS C 14	1.2E-02	1.5E-04	8.8E-04	8.3E-03	4.3E-02	2.0E-02	8.4E-02
SS C 15	2.9E-02	1.5E-04	8.8E-04	1.6E-02	4.4E-02	1.7E-02	1.1E-01
SS C 16	1.8E-02	1.5E-04	8.8E-04	6.0E-03	4.4E-02	1.5E-02	8.4E-02
SS C 17	2.0E-02	1.5E-04	8.8E-04	1.7E-02	4.3E-02	1.3E-02	9.3E-02
SS C 18	2.3E-02	1.5E-04	8.8E-04	1.7E-02	5.0E-02	1.3E-02	1.0E-01
SS C 19	1.8E-02	1.5E-04	8.8E-04	3.1E-02	4.4E-02	1.1E-02	1.0E-01
SS C 20	1.2E-02	1.5E-04	8.8E-04	2.0E-02	5.2E-02	1.5E-02	1.0E-01
SS C 21	3.9E-02	1.5E-04	8.8E-04	1.4E-02	3.8E-02	1.3E-02	1.0E-01
SS C 22	2.9E-02	3.0E-03	8.8E-04	9.0E-03	3.9E-02	1.2E-02	9.2E-02
SS C 23	6.0E-03	1.5E-04	8.8E-04	3.5E-03	1.4E-02	4.0E-03	2.8E-02
SS C 24	6.0E-03	1.5E-04	8.8E-04	7.0E-03	3.3E-02	1.2E-02	5.8E-02
SS C 25	1.4E-02	1.5E-04	8.8E-04	3.8E-03	3.5E-02	1.2E-02	6.6E-02
SS D 10	2.3E-02	1.5E-04	8.8E-04	4.0E-03	4.9E-02	1.3E-02	8.9E-02
SS D 11	4.8E-02	1.5E-04	8.8E-04	3.3E-03	4.5E-02	9.4E-03	1.1E-01
SS D 12	2.0E-02	1.5E-04	8.8E-04	6.8E-03	3.9E-02	1.1E-02	7.7E-02
SS D 13	2.3E-02	1.5E-04	8.8E-04	8.3E-03	4.1E-02	1.1E-02	8.4E-02
SS D 14	1.7E-02	1.5E-04	8.8E-04	1.8E-02	4.5E-02	1.3E-02	9.3E-02
SS D 15	1.5E-02	1.5E-04	8.8E-04	6.0E-03	4.9E-02	1.3E-02	8.4E-02
SS D 16	2.7E-02	1.5E-04	8.8E-04	9.0E-03	4.4E-02	1.2E-02	9.3E-02
SS D 17	1.2E-02	1.5E-04	8.8E-04	2.1E-02	4.0E-02	1.6E-02	9.0E-02
SS D 18	2.0E-02	1.5E-04	8.8E-04	2.1E-02	3.7E-02	1.1E-02	8.9E-02

Data 6-4

Exposure Risk of Heavy Metals in Soil

(2)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS D 19	1.7E-02	1.5E-04	8.8E-04	1.9E-02	5.1E-02	1.4E-02	1.0E-01
SS D 20	1.4E-02	1.5E-04	8.8E-04	9.5E-03	3.1E-02	1.1E-02	6.6E-02
SS D 21	1.7E-02	1.5E-04	8.8E-04	1.0E-02	2.8E-02	9.9E-03	6.6E-02
SS D 22	2.0E-02	1.5E-04	8.8E-04	3.3E-03	3.3E-02	1.2E-02	6.9E-02
SS D 23	4.5E-02	1.5E-04	8.8E-04	4.5E-03	4.5E-02	9.4E-03	1.1E-01
SS D 24	8.3E-02	1.5E-04	8.8E-04	5.3E-03	6.0E-02	9.9E-03	1.6E-01
SS D 25	6.3E-02	1.5E-04	8.8E-04	3.5E-03	5.0E-02	1.1E-02	1.3E-01
SS E 9	1.4E-02	1.5E-04	8.8E-04	8.5E-03	3.4E-02	1.3E-02	7.0E-02
SS E 10	5.1E-02	1.5E-04	8.8E-04	2.0E-03	6.9E-02	6.3E-03	1.3E-01
SS E 11	1.5E-02	1.5E-04	8.8E-04	9.5E-03	6.9E-02	1.4E-02	1.1E-01
SS E 12	2.9E-02	1.5E-04	8.8E-04	2.4E-02	3.9E-02	1.1E-02	1.0E-01
SS E 13	7.8E-02	1.5E-04	8.8E-04	4.0E-03	6.4E-02	1.2E-02	1.6E-01
SS E 14	2.9E-02	1.5E-04	8.8E-04	3.0E-02	4.1E-02	1.2E-02	1.1E-01
SS E 15	1.2E-02	1.5E-04	8.8E-04	2.4E-02	3.4E-02	1.3E-02	8.4E-02
SS E 16	1.2E-02	1.5E-04	8.8E-04	1.9E-02	2.0E-02	9.1E-03	6.1E-02
SS E 17	1.4E-02	1.5E-04	8.8E-04	1.8E-02	2.7E-02	8.3E-03	6.8E-02
SS E 18	2.0E-02	1.5E-04	8.8E-04	2.4E-02	4.6E-02	1.2E-02	1.0E-01
SS E 19	3.3E-02	1.5E-04	8.8E-04	1.8E-02	3.8E-02	1.5E-02	1.1E-01
SS E 20	1.8E-02	1.5E-04	8.8E-04	7.5E-03	3.9E-02	1.4E-02	7.9E-02
SS E 21	2.1E-02	1.5E-04	8.8E-04	3.3E-03	3.9E-02	1.1E-02	7.6E-02
SS E 22	3.5E-02	1.5E-04	8.8E-04	4.5E-03	5.2E-02	1.2E-02	1.0E-01
SS E 23	6.9E-02	1.5E-04	8.8E-04	4.3E-03	6.5E-02	1.3E-02	1.5E-01
SS E 24	2.0E-01	1.5E-04	8.8E-04	3.0E-03	6.9E-02	1.1E-02	2.8E-01
SS E 25	3.6E-02	1.5E-04	8.8E-04	3.8E-03	4.0E-02	1.6E-02	9.7E-02
SS F 9	3.9E-02	1.5E-04	8.8E-04	1.0E-02	4.4E-02	1.0E-02	1.0E-01
SS F 10	2.0E-02	1.5E-04	8.8E-04	1.1E-02	3.0E-02	1.0E-02	7.2E-02
SS F 11	1.7E-02	1.5E-04	8.8E-04	2.9E-02	3.2E-02	1.2E-02	9.0E-02
SS F 12	2.1E-02	1.5E-04	8.8E-04	3.1E-02	3.9E-02	1.2E-02	1.0E-01
SS F 13	2.0E-02	1.5E-04	8.8E-04	2.6E-02	3.9E-02	1.1E-02	9.6E-02
SS F 14	1.2E-02	1.5E-04	8.8E-04	2.1E-02	2.5E-02	9.6E-03	6.9E-02
SS F 15	1.8E-02	1.5E-04	8.8E-04	2.5E-02	3.3E-02	1.1E-02	8.7E-02
SS F 16	1.4E-02	1.5E-04	8.8E-04	2.2E-02	2.4E-02	9.0E-03	6.9E-02
SS F 17	1.4E-02	1.5E-04	8.8E-04	2.7E-02	5.4E-02	1.1E-02	1.1E-01
SS F 18	2.4E-02	1.5E-04	8.8E-04	3.1E-02	3.9E-02	1.2E-02	1.1E-01
SS F 19	2.3E-02	1.5E-04	8.8E-04	4.3E-03	4.3E-02	1.2E-02	8.3E-02
SS F 20	2.6E-02	1.5E-04	8.8E-04	3.3E-03	4.7E-02	1.7E-02	9.4E-02
SS F 21	7.2E-02	1.5E-04	8.8E-04	4.5E-03	5.0E-02	1.3E-02	1.4E-01
SS F 22	3.3E-01	1.5E-04	8.8E-04	4.8E-03	9.6E-02	9.9E-03	4.4E-01
SS F 23	3.0E-02	1.5E-04	8.8E-04	4.0E-03	4.6E-02	1.9E-02	1.0E-01
SS F 24	2.0E-02	1.5E-04	8.8E-04	5.8E-03	3.6E-02	1.2E-02	7.4E-02
SS F 25	2.7E-02	1.5E-04	8.8E-04	6.8E-03	4.0E-02	1.1E-02	8.6E-02
SS G 9	3.5E-02	1.5E-04	8.8E-04	4.8E-03	5.7E-02	1.2E-02	1.1E-01
SS G 10	2.1E-02	1.5E-04	8.8E-04	1.9E-02	3.3E-02	1.1E-02	8.4E-02
SS G 11	2.7E-02	1.5E-04	8.8E-04	3.3E-02	3.7E-02	1.2E-02	1.1E-01
SS G 12	1.5E-02	1.5E-04	8.8E-04	2.7E-02	3.7E-02	1.1E-02	9.0E-02
SS G 13	1.5E-02	1.5E-04	8.8E-04	2.8E-02	2.4E-02	1.6E-02	8.4E-02
SS G 14	1.8E-02	1.5E-04	8.8E-04	1.8E-02	3.4E-02	1.1E-02	8.2E-02
SS G 15	1.5E-02	1.5E-04	8.8E-04	2.6E-02	3.9E-02	1.1E-02	9.2E-02
SS G 16	1.7E-02	1.5E-04	8.8E-04	2.4E-02	3.2E-02	9.7E-03	8.2E-02
SS G 17	1.7E-02	1.5E-04	8.8E-04	2.1E-02	3.2E-02	9.7E-03	7.9E-02
SS G 18	4.7E-02	1.5E-04	8.8E-04	6.8E-03	3.8E-02	1.3E-02	1.0E-01

Data 6-4

Exposure Risk of Heavy Metals in Soil

(3)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS G 19	7.8E-02	1.5E-04	8.8E-04	4.0E-03	6.0E-02	1.5E-02	1.6E-01
SS G 20	9.8E-02	1.5E-04	8.8E-04	3.3E-03	7.0E-02	1.2E-02	1.8E-01
SS G 21	1.4E-01	1.5E-04	8.8E-04	4.5E-03	6.3E-02	1.4E-02	2.2E-01
SS G 22	2.4E-02	1.5E-04	8.8E-04	3.5E-03	4.0E-02	1.3E-02	8.2E-02
SS G 23	6.0E-03	1.5E-04	8.8E-04	2.5E-03	3.5E-02	1.6E-02	6.1E-02
SS G 24	1.4E-02	1.5E-04	8.8E-04	3.0E-03	4.5E-02	1.3E-02	7.5E-02
SS G 25	1.7E-02	1.5E-04	8.8E-04	3.0E-03	3.9E-02	1.5E-02	7.4E-02
SS G 26	2.6E-02	1.5E-04	8.8E-04	6.3E-03	4.1E-02	1.2E-02	8.6E-02
SS G 27	4.4E-02	1.5E-04	8.8E-04	5.0E-03	3.8E-02	1.2E-02	9.9E-02
SS G 28	4.7E-02	3.0E-03	8.8E-04	1.3E-02	4.4E-02	1.1E-02	1.2E-01
SS G 29	4.7E-02	3.0E-03	8.8E-04	1.4E-02	4.4E-02	1.0E-02	1.2E-01
SS G 30	3.5E-02	3.0E-03	8.8E-04	1.6E-02	4.4E-02	1.2E-02	1.1E-01
SS G 31	5.0E-02	3.0E-03	8.8E-04	8.5E-03	5.0E-02	1.0E-02	1.2E-01
SS G 32	5.7E-02	1.5E-04	8.8E-04	4.0E-03	7.7E-02	1.3E-02	1.5E-01
SS G 33	4.8E-02	3.0E-03	8.8E-04	3.8E-03	5.7E-02	1.1E-02	1.2E-01
SS G 34	3.9E-02	1.5E-04	8.8E-04	4.3E-03	9.3E-02	9.0E-03	1.5E-01
SS G 35	3.0E-02	1.5E-04	8.8E-04	4.8E-03	9.3E-02	6.9E-03	1.4E-01
SS G 36	4.8E-02	1.5E-04	8.8E-04	5.0E-03	8.2E-02	9.6E-03	1.5E-01
SS H 9	1.4E-02	1.5E-04	8.8E-04	5.5E-03	4.6E-02	1.1E-02	7.7E-02
SS H 10	2.7E-02	1.5E-04	8.8E-04	2.5E-02	3.9E-02	1.2E-02	1.0E-01
SS H 11	1.2E-02	1.5E-04	8.8E-04	3.4E-02	3.3E-02	1.0E-02	8.9E-02
SS H 12	1.4E-02	1.5E-04	8.8E-04	3.0E-02	3.0E-02	1.1E-02	8.5E-02
SS H 13	1.7E-02	1.5E-04	8.8E-04	2.9E-02	3.3E-02	1.2E-02	9.2E-02
SS H 14	1.7E-02	1.5E-04	8.8E-04	2.1E-02	2.7E-02	1.0E-02	7.6E-02
SS H 15	2.6E-02	1.5E-04	8.8E-04	3.4E-02	4.1E-02	1.2E-02	1.1E-01
SS H 16	1.8E-02	1.5E-04	8.8E-04	7.3E-03	3.7E-02	1.2E-02	7.5E-02
SS H 17	2.1E-02	1.5E-04	8.8E-04	5.0E-03	4.3E-02	1.3E-02	8.3E-02
SS H 18	1.7E-02	1.5E-04	8.8E-04	3.5E-03	4.5E-02	1.3E-02	7.9E-02
SS H 19	1.5E-02	1.5E-04	8.8E-04	3.5E-03	4.4E-02	2.1E-02	8.4E-02
SS H 20	7.7E-02	1.5E-04	8.8E-04	3.8E-03	5.8E-02	1.2E-02	1.5E-01
SS H 21	2.9E-02	1.5E-04	8.8E-04	3.8E-03	4.9E-02	1.6E-02	9.9E-02
SS H 22	2.6E-02	1.5E-04	8.8E-04	6.8E-03	4.4E-02	1.7E-02	9.4E-02
SS H 23	2.1E-02	1.5E-04	8.8E-04	3.4E-02	3.3E-02	1.2E-02	1.0E-01
SS H 24	1.2E-02	1.5E-04	8.8E-04	1.8E-03	5.1E-02	1.4E-02	8.0E-02
SS H 25	9.0E-03	1.5E-04	8.8E-04	2.5E-03	4.9E-02	2.1E-02	8.2E-02
SS H 26	2.3E-02	1.5E-04	8.8E-04	4.0E-03	4.4E-02	1.2E-02	8.4E-02
SS H 27	1.8E-02	1.5E-04	8.8E-04	5.3E-03	4.4E-02	1.1E-02	7.9E-02
SS H 28	4.7E-02	3.0E-03	8.8E-04	1.2E-02	4.5E-02	9.1E-03	1.2E-01
SS H 29	5.3E-02	1.5E-04	8.8E-04	1.0E-02	4.4E-02	8.6E-03	1.2E-01
SS H 30	4.7E-02	3.0E-03	8.8E-04	9.3E-03	4.3E-02	1.1E-02	1.1E-01
SS H 31	6.0E-02	3.0E-03	8.8E-04	4.0E-03	6.2E-02	1.2E-02	1.4E-01
SS H 32	3.9E-02	1.5E-04	8.8E-04	3.0E-03	5.4E-02	2.2E-02	1.2E-01
SS H 33	2.4E-02	3.0E-03	8.8E-04	3.8E-03	5.1E-02	1.4E-02	9.6E-02
SS H 34	7.7E-02	1.5E-04	8.8E-04	4.0E-03	7.4E-02	1.3E-02	1.7E-01
SS H 35	3.9E-02	1.5E-04	8.8E-04	1.1E-02	5.1E-02	1.0E-02	1.1E-01
SS H 36	3.5E-02	1.5E-04	8.8E-04	2.8E-02	5.1E-02	1.2E-02	1.3E-01
SS I 8	3.5E-02	1.5E-04	8.8E-04	7.5E-03	6.0E-02	1.0E-02	1.1E-01
SS I 9	3.6E-02	1.5E-04	8.8E-04	1.6E-02	3.8E-02	1.1E-02	1.0E-01
SS I 10	2.0E-02	1.5E-04	8.8E-04	3.3E-02	3.8E-02	1.1E-02	1.0E-01
SS I 11	1.5E-02	1.5E-04	8.8E-04	2.8E-02	2.6E-02	1.1E-02	8.1E-02
SS I 12	2.1E-02	1.5E-04	8.8E-04	2.7E-02	3.4E-02	1.3E-02	9.6E-02

Data 6-4

Exposure Risk of Heavy Metals in Soil

(4)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS I 13	1.8E-02	1.5E-04	8.8E-04	2.8E-02	2.8E-02	1.1E-02	8.6E-02
SS I 14	1.8E-02	1.5E-04	8.8E-04	1.5E-02	3.3E-02	1.2E-02	7.9E-02
SS I 15	1.4E-02	1.5E-04	8.8E-04	8.0E-03	5.0E-02	9.6E-03	8.2E-02
SS I 16	1.7E-02	3.0E-03	8.8E-04	5.3E-03	3.9E-02	1.3E-02	7.7E-02
SS I 17	1.4E-02	3.0E-03	8.8E-04	5.5E-03	4.6E-02	1.3E-02	8.2E-02
SS I 18	6.0E-03	1.5E-04	8.8E-04	4.3E-03	4.5E-02	1.4E-02	7.1E-02
SS I 19	1.8E-02	1.5E-04	8.8E-04	3.3E-03	3.9E-02	1.3E-02	7.4E-02
SS I 20	1.2E-02	1.5E-04	8.8E-04	5.3E-03	4.3E-02	2.2E-02	8.3E-02
SS I 21	9.0E-03	1.5E-04	8.8E-04	5.0E-03	4.8E-02	1.4E-02	7.7E-02
SS I 22	1.1E-02	1.5E-04	8.8E-04	2.1E-02	4.3E-02	1.3E-02	8.8E-02
SS I 23	9.0E-03	1.5E-04	8.8E-04	2.0E-03	4.2E-02	1.3E-02	6.7E-02
SS I 24	6.0E-03	1.5E-04	8.8E-04	1.5E-03	3.2E-02	1.1E-02	5.1E-02
SS I 25	1.5E-02	1.5E-04	8.8E-04	2.8E-03	3.9E-02	1.6E-02	7.4E-02
SS I 26	1.7E-02	1.5E-04	8.8E-04	4.3E-03	4.5E-02	1.4E-02	8.0E-02
SS I 27	4.4E-02	1.5E-04	8.8E-04	1.1E-02	4.3E-02	1.0E-02	1.1E-01
SS I 28	4.1E-02	1.5E-04	8.8E-04	1.4E-02	5.1E-02	1.1E-02	1.2E-01
SS I 29	3.6E-02	1.5E-04	8.8E-04	1.0E-02	6.9E-02	9.3E-03	1.2E-01
SS I 30	5.0E-02	1.5E-04	8.8E-04	6.3E-03	5.4E-02	1.3E-02	1.2E-01
SS I 31	2.6E-02	1.5E-04	8.8E-04	3.8E-03	1.0E-01	1.4E-02	1.5E-01
SS I 32	1.1E-02	3.0E-03	8.8E-04	4.0E-03	3.4E-02	4.7E-02	9.9E-02
SS I 33	3.6E-02	3.0E-03	8.8E-04	5.3E-03	6.5E-02	1.6E-02	1.3E-01
SS I 34	2.1E-02	1.5E-04	8.8E-04	4.8E-03	4.9E-02	1.0E-02	8.6E-02
SS I 35	2.0E-02	1.5E-04	8.8E-04	2.0E-02	4.8E-02	1.3E-02	1.0E-01
SS I 36	2.7E-02	1.5E-04	8.8E-04	2.7E-02	5.1E-02	1.1E-02	1.2E-01
SS J 7	9.0E-03	3.0E-03	8.8E-04	6.3E-03	5.0E-02	1.3E-02	8.2E-02
SS J 8	9.0E-03	1.5E-04	8.8E-04	9.8E-03	3.7E-02	1.2E-02	6.8E-02
SS J 9	2.3E-02	3.0E-03	8.8E-04	4.4E-02	3.4E-02	1.3E-02	1.2E-01
SS J 10	1.7E-02	3.0E-03	8.8E-04	2.7E-02	3.3E-02	1.1E-02	9.0E-02
SS J 11	2.0E-02	1.5E-04	8.8E-04	3.4E-02	3.4E-02	1.1E-02	1.0E-01
SS J 12	2.0E-02	1.5E-04	8.8E-04	3.0E-02	3.3E-02	1.1E-02	9.5E-02
SS J 13	2.4E-02	1.5E-04	8.8E-04	1.6E-02	3.3E-02	9.3E-03	8.3E-02
SS J 14	1.2E-02	1.5E-04	8.8E-04	4.0E-03	4.7E-02	9.9E-03	7.4E-02
SS J 15	1.1E-02	3.0E-03	8.8E-04	3.3E-03	4.1E-02	1.1E-02	7.0E-02
SS J 16	1.5E-02	1.5E-04	8.8E-04	4.0E-03	4.3E-02	1.0E-02	7.3E-02
SS J 17	6.0E-03	3.0E-03	8.8E-04	4.0E-03	3.6E-02	1.2E-02	6.2E-02
SS J 18	2.3E-03	1.5E-04	8.8E-04	2.9E-03	3.3E-02	9.5E-03	4.9E-02
SS J 19	1.8E-02	1.5E-04	8.8E-04	4.8E-03	4.5E-02	1.2E-02	8.1E-02
SS J 20	7.5E-03	1.5E-04	8.8E-04	3.5E-03	4.5E-02	1.3E-02	7.0E-02
SS J 21	1.5E-02	3.0E-03	8.8E-04	3.8E-03	4.4E-02	1.2E-02	7.8E-02
SS J 22	9.0E-03	1.5E-04	8.8E-04	3.8E-03	3.3E-02	1.3E-02	5.9E-02
SS J 23	7.5E-03	1.5E-04	8.8E-04	2.8E-03	3.1E-02	9.4E-03	5.2E-02
SS J 24	1.1E-02	1.5E-04	8.8E-04	3.0E-03	3.7E-02	1.1E-02	6.2E-02
SS J 25	1.7E-02	3.0E-03	8.8E-04	3.8E-03	5.0E-02	1.2E-02	8.6E-02
SS J 26	2.7E-02	3.0E-03	8.8E-04	9.5E-03	4.4E-02	1.1E-02	9.5E-02
SS J 27	4.7E-02	1.5E-04	8.8E-04	9.0E-03	4.5E-02	8.1E-03	1.1E-01
SS J 28	2.3E-02	3.0E-03	8.8E-04	9.8E-03	6.1E-02	1.3E-02	1.1E-01
SS J 29	2.9E-02	3.0E-03	8.8E-04	5.5E-03	5.3E-02	1.3E-02	1.0E-01
SS J 30	2.1E-02	1.5E-04	8.8E-04	2.3E-03	6.4E-02	1.4E-02	1.0E-01
SS J 31	1.5E-01	1.5E-04	8.8E-04	3.0E-03	8.9E-01	1.1E-02	1.1E+00
SS J 32	2.4E-02	3.0E-03	8.8E-04	4.8E-03	6.3E-02	1.3E-02	1.1E-01
SS J 33	2.3E-02	1.5E-04	8.8E-04	3.3E-03	5.1E-02	1.4E-02	9.2E-02

Data 6-4

Exposure Risk of Heavy Metals in Soil

(5)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS J 34	2.9E-02	1.5E-04	8.8E-04	2.8E-02	5.1E-02	1.1E-02	1.2E-01
SS J 35	3.0E-02	1.5E-04	8.8E-04	2.0E-02	5.3E-02	1.2E-02	1.2E-01
SS J 36	2.4E-02	3.0E-03	8.8E-04	2.3E-02	5.1E-02	1.3E-02	1.2E-01
SS K 06	1.2E-02	1.5E-04	8.8E-04	3.9E-03	2.9E-02	1.0E-02	5.5E-02
SS K 07	9.4E-03	1.5E-04	8.8E-04	3.7E-03	3.7E-02	9.0E-03	6.0E-02
SS K 08	1.9E-02	1.5E-04	8.8E-04	2.8E-02	2.9E-02	1.8E-02	9.5E-02
SS K 09	3.2E-03	1.5E-04	8.8E-04	3.3E-02	3.1E-02	1.7E-02	8.5E-02
SS K 10	4.1E-03	1.5E-04	8.8E-04	3.3E-02	3.0E-02	1.2E-02	8.1E-02
SS K 11	9.1E-03	1.5E-04	8.8E-04	3.6E-02	2.6E-02	1.2E-02	8.4E-02
SS K 12	8.7E-03	1.5E-04	8.8E-04	1.9E-02	3.3E-02	1.8E-02	8.0E-02
SS K 13	2.0E-02	1.5E-04	8.8E-04	2.4E-03	2.9E-02	1.2E-02	6.5E-02
SS K 14	9.1E-03	1.5E-04	8.8E-04	2.4E-03	3.1E-02	1.2E-02	5.6E-02
SS K 15	3.4E-03	1.5E-04	8.8E-04	2.7E-03	2.6E-02	1.2E-02	4.6E-02
SS K 16	7.5E-04	1.5E-04	8.8E-04	1.3E-02	7.5E-02	1.8E-02	1.1E-01
SS K 17	7.9E-03	1.5E-04	8.8E-04	2.7E-03	3.5E-02	1.3E-02	6.0E-02
SS K 18	3.5E-02	1.5E-04	8.8E-04	2.7E-03	4.6E-02	1.8E-02	1.0E-01
SS K 19	4.1E-03	1.5E-04	8.8E-04	3.1E-03	3.0E-02	1.1E-02	4.9E-02
SS K 20	3.5E-03	1.5E-04	8.8E-04	2.3E-03	2.9E-02	1.1E-02	4.6E-02
SS K 21	6.9E-03	1.5E-04	8.8E-04	1.1E-03	2.3E-02	9.2E-03	4.2E-02
SS K 22	3.5E-03	1.5E-04	8.8E-04	2.4E-03	4.2E-02	8.6E-03	5.8E-02
SS K 23	5.3E-03	1.5E-04	8.8E-04	2.1E-03	4.2E-02	1.1E-02	6.2E-02
SS K 24	1.1E-02	1.5E-04	8.8E-04	3.7E-03	3.7E-02	1.1E-02	6.3E-02
SS K 25	1.2E-02	1.5E-04	8.8E-04	5.0E-03	3.9E-02	1.0E-02	6.8E-02
SS K 26	2.7E-02	1.5E-04	8.8E-04	8.2E-03	3.7E-02	9.9E-03	8.3E-02
SS K 27	2.4E-02	1.5E-04	8.8E-04	7.1E-03	4.3E-02	1.0E-02	8.5E-02
SS K 28	3.4E-02	1.5E-04	8.8E-04	3.4E-03	4.0E-02	1.1E-02	8.9E-02
SS K 29	3.6E-02	1.5E-04	8.8E-04	2.0E-03	4.4E-02	1.2E-02	9.5E-02
SS K 30	2.5E-01	1.5E-04	8.8E-04	2.0E-03	3.6E-02	1.2E-02	3.0E-01
SS K 31	1.7E-02	1.5E-04	8.8E-04	1.2E-02	6.0E-02	1.2E-02	1.0E-01
SS K 32	1.9E-02	1.5E-04	8.8E-04	4.0E-03	3.5E-02	1.4E-02	7.3E-02
SS K 33	1.8E-02	1.5E-04	8.8E-04	2.5E-02	4.0E-02	1.0E-02	9.3E-02
SS K 34	1.8E-02	1.5E-04	8.8E-04	2.3E-02	8.0E-02	1.3E-02	1.3E-01
SS K 35	1.4E-02	1.5E-04	8.8E-04	3.3E-02	3.7E-02	1.6E-02	1.0E-01
SS K 36	1.2E-02	4.8E-03	8.8E-04	7.0E-03	1.5E-01	3.4E-02	2.1E-01
SS L 05	9.5E-03	1.5E-04	8.8E-04	5.9E-03	3.4E-02	1.1E-02	6.2E-02
SS L 06	7.5E-04	1.5E-04	8.8E-04	6.3E-03	3.4E-02	9.9E-03	5.2E-02
SS L 07	1.1E-02	1.5E-04	8.8E-04	7.8E-03	5.2E-02	1.3E-02	8.5E-02
SS L 08	8.8E-03	1.5E-04	8.8E-04	3.1E-02	3.0E-02	1.1E-02	8.1E-02
SS L 09	1.7E-02	1.5E-04	8.8E-04	3.2E-02	2.0E-02	1.2E-02	8.2E-02
SS L 10	7.5E-04	1.5E-04	8.8E-04	3.3E-02	2.8E-02	1.2E-02	7.4E-02
SS L 11	1.5E-02	1.5E-04	8.8E-04	1.7E-02	2.6E-02	1.1E-02	6.9E-02
SS L 12	7.8E-03	1.5E-04	8.8E-04	6.5E-03	3.6E-02	1.3E-02	6.4E-02
SS L 13	5.9E-03	1.5E-04	8.8E-04	3.4E-03	3.0E-02	1.1E-02	5.1E-02
SS L 14	2.4E-03	1.5E-04	8.8E-04	3.9E-03	3.2E-02	1.3E-02	5.2E-02
SS L 15	1.8E-02	1.5E-04	8.8E-04	2.7E-03	3.4E-02	1.3E-02	6.8E-02
SS L 16	3.2E-03	1.5E-04	8.8E-04	1.8E-03	2.6E-02	9.3E-03	4.1E-02
SS L 17	1.2E-02	3.8E-03	8.8E-04	2.2E-03	3.6E-02	1.0E-02	6.5E-02
SS L 18	5.7E-03	1.5E-04	8.8E-04	3.1E-03	3.8E-02	1.1E-02	5.9E-02
SS L 19	7.6E-03	1.5E-04	8.8E-04	1.7E-03	3.3E-02	1.0E-02	5.4E-02
SS L 20	3.0E-03	1.5E-04	8.8E-04	2.2E-03	4.3E-02	1.3E-02	6.3E-02
SS L 21	8.5E-03	1.5E-04	8.8E-04	3.9E-03	1.5E-01	9.1E-03	1.7E-01

Data 6-4

Exposure Risk of Heavy Metals in Soil

(6)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS L 22	1.1E-02	1.5E-04	8.8E-04	4.0E-03	3.9E-02	1.1E-02	6.7E-02
SS L 23	1.6E-02	1.5E-04	8.8E-04	2.5E-03	4.1E-02	1.0E-02	7.1E-02
SS L 24	1.1E-02	1.5E-04	8.8E-04	5.3E-03	4.1E-02	9.9E-03	6.8E-02
SS L 25	1.4E-02	1.5E-04	8.8E-04	6.4E-03	4.4E-02	1.0E-02	7.5E-02
SS L 26	3.5E-02	1.5E-04	8.8E-04	5.8E-03	5.4E-02	9.7E-03	1.1E-01
SS L 27	2.0E-02	1.5E-04	8.8E-04	4.5E-03	6.3E-02	1.2E-02	1.0E-01
SS L 28	1.7E-02	1.5E-04	8.8E-04	2.6E-03	4.8E-02	1.2E-02	8.2E-02
SS L 29	9.0E-02	1.5E-04	8.8E-04	1.5E-03	6.2E-01	6.9E-02	7.8E-01
SS L 30	1.0E-02	1.5E-04	8.8E-04	2.1E-03	4.2E-02	1.4E-02	7.0E-02
SS L 31	2.1E-02	1.5E-04	8.8E-04	1.3E-02	9.4E-02	1.2E-02	1.4E-01
SS L 32	7.4E-03	1.5E-04	8.8E-04	7.3E-03	5.3E-02	1.2E-02	8.1E-02
SS L 33	2.3E-02	1.5E-04	8.8E-04	6.4E-03	6.1E-02	1.1E-02	1.0E-01
SS L 34	1.7E-02	1.5E-04	8.8E-04	8.9E-03	5.5E-02	1.3E-02	9.4E-02
SS L 35	1.0E-02	1.2E-02	8.8E-04	4.7E-03	5.0E-01	6.8E-02	6.0E-01
SS L 36	5.9E-03	3.4E-03	8.8E-04	2.8E-03	9.2E-02	1.9E-02	1.2E-01
SS M 04	1.1E-02	1.5E-04	8.8E-04	2.2E-03	3.6E-02	9.7E-03	6.1E-02
SS M 05	8.3E-03	1.5E-04	8.8E-04	3.7E-03	3.7E-02	1.1E-02	6.1E-02
SS M 06	2.2E-02	1.5E-04	8.8E-04	3.7E-03	4.5E-02	1.4E-02	8.6E-02
SS M 07	8.6E-03	1.5E-04	8.8E-04	5.0E-03	4.7E-02	1.3E-02	7.5E-02
SS M 08	1.1E-02	1.5E-04	8.8E-04	4.1E-02	2.7E-02	1.2E-02	9.2E-02
SS M 09	8.6E-03	1.5E-04	8.8E-04	4.3E-02	2.5E-02	1.3E-02	9.1E-02
SS M 10	2.4E-02	1.5E-04	8.8E-04	1.9E-02	3.0E-02	1.1E-02	8.4E-02
SS M 11	5.9E-03	1.5E-04	8.8E-04	3.2E-03	3.1E-02	1.3E-02	5.3E-02
SS M 12	2.0E-02	1.5E-04	8.8E-04	2.0E-03	3.6E-02	1.3E-02	7.2E-02
SS M 13	6.0E-03	1.5E-04	8.8E-04	5.7E-03	3.7E-02	1.3E-02	6.3E-02
SS M 14	4.4E-03	1.5E-04	8.8E-04	3.0E-03	4.0E-02	1.3E-02	6.2E-02
SS M 15	6.3E-03	1.5E-04	8.8E-04	2.4E-03	3.5E-02	1.3E-02	5.8E-02
SS M 16	9.0E-03	1.5E-04	8.8E-04	4.1E-03	2.8E-02	1.2E-02	5.4E-02
SS M 17	6.1E-03	1.5E-04	8.8E-04	2.1E-03	2.9E-02	1.1E-02	5.0E-02
SS M 18	9.2E-03	1.5E-04	8.8E-04	2.6E-03	3.6E-02	1.3E-02	6.2E-02
SS M 19	6.8E-03	1.5E-04	8.8E-04	2.6E-03	2.9E-02	1.1E-02	5.0E-02
SS M 20	1.6E-02	1.5E-04	8.8E-04	2.3E-03	3.0E-02	9.8E-03	6.0E-02
SS M 21	1.8E-02	1.5E-04	8.8E-04	3.0E-03	3.9E-02	1.3E-02	7.4E-02
SS M 22	1.5E-02	1.5E-04	8.8E-04	3.9E-03	4.8E-02	1.2E-02	8.0E-02
SS M 23	2.7E-02	1.5E-04	8.8E-04	4.3E-03	3.3E-02	9.1E-03	7.5E-02
SS M 24	1.6E-02	1.5E-04	8.8E-04	6.3E-03	4.0E-02	1.0E-02	7.3E-02
SS M 25	4.6E-02	1.5E-04	8.8E-04	3.0E-03	8.2E-02	2.1E-02	1.5E-01
SS M 26	3.2E-02	1.5E-04	8.8E-04	2.6E-03	3.5E-02	1.1E-02	8.1E-02
SS M 27	2.6E-02	1.5E-04	8.8E-04	3.9E-03	4.7E-02	2.3E-02	1.0E-01
SS M 28	8.5E-02	1.5E-04	8.8E-04	1.6E-03	4.3E-01	3.2E-02	5.5E-01
SS M 29	4.1E-02	1.1E-02	8.8E-04	3.3E-03	5.9E-01	1.1E-01	7.6E-01
SS M 30	4.2E-03	1.5E-04	8.8E-04	2.1E-03	3.9E-02	1.4E-02	6.1E-02
SS M 31	3.6E-02	1.5E-04	8.8E-04	7.9E-03	1.0E-01	1.1E-02	1.6E-01
SS M 32	3.4E-02	1.5E-04	8.8E-04	7.1E-03	1.5E-01	1.8E-02	2.1E-01
SS M 33	3.5E-02	6.6E-03	8.8E-04	5.4E-03	3.9E-01	8.5E-02	5.2E-01
SS M 34	1.8E-01	8.5E-02	8.8E-04	4.7E-03	4.6E+00	8.7E-01	5.7E+00
SS M 35	4.5E-02	1.4E-01	8.8E-04	3.5E-03	1.8E+01	1.5E+00	2.0E+01
SS M 36	1.6E-03	1.5E-04	8.8E-04	1.5E-03	9.2E-02	2.0E-02	1.2E-01
SS N 03	3.6E-02	1.5E-04	8.8E-04	3.1E-03	4.9E-02	9.9E-03	9.9E-02
SS N 04	9.3E-02	1.5E-04	8.8E-04	1.4E-03	6.2E-02	1.0E-02	1.7E-01
SS N 05	4.2E-03	1.5E-04	8.8E-04	4.7E-03	4.4E-02	2.1E-02	7.5E-02

Data 6-4

Exposure Risk of Heavy Metals in Soil

(7)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS N 06	3.0E-03	1.5E-04	8.8E-04	6.2E-03	4.5E-02	1.2E-02	6.7E-02
SS N 07	1.4E-02	1.5E-04	8.8E-04	1.9E-02	3.2E-02	1.1E-02	7.7E-02
SS N 08	1.6E-02	1.5E-04	8.8E-04	3.8E-02	3.3E-02	1.2E-02	9.9E-02
SS N 09	1.2E-02	1.5E-04	8.8E-04	3.0E-02	4.7E-02	1.1E-02	1.0E-01
SS N 10	8.3E-03	1.5E-04	8.8E-04	8.6E-03	3.5E-02	1.0E-02	6.4E-02
SS N 11	3.2E-03	1.5E-04	8.8E-04	2.0E-03	4.2E-02	1.4E-02	6.3E-02
SS N 12	5.1E-03	1.5E-04	8.8E-04	1.2E-03	4.4E-02	1.3E-02	6.4E-02
SS N 13	6.8E-03	1.5E-04	8.8E-04	1.4E-03	5.1E-02	1.1E-02	7.1E-02
SS N 14	2.3E-03	1.5E-04	8.8E-04	2.3E-03	3.5E-02	1.3E-02	5.3E-02
SS N 15	5.9E-03	1.5E-04	8.8E-04	3.1E-03	2.8E-02	1.2E-02	5.1E-02
SS N 16	7.2E-03	1.5E-04	8.8E-04	1.6E-03	3.6E-02	1.2E-02	5.8E-02
SS N 17	1.9E-02	1.5E-04	8.8E-04	1.7E-03	5.7E-02	1.6E-02	9.5E-02
SS N 18	8.3E-03	1.5E-04	8.8E-04	2.7E-03	4.7E-02	1.8E-02	7.7E-02
SS N 19	9.5E-03	1.5E-04	8.8E-04	2.0E-03	4.8E-02	1.2E-02	7.3E-02
SS N 20	4.6E-02	1.5E-04	8.8E-04	1.6E-03	5.7E-02	1.3E-02	1.2E-01
SS N 21	2.0E-02	1.5E-04	8.8E-04	6.3E-03	6.2E-02	1.7E-02	1.1E-01
SS N 22	1.8E-02	1.5E-04	8.8E-04	4.9E-03	7.4E-02	1.8E-02	1.2E-01
SS N 23	2.1E-02	7.8E-03	8.8E-04	8.2E-03	2.3E-01	5.0E-02	3.2E-01
SS N 24	8.7E-02	2.0E-02	8.8E-04	3.7E-03	1.5E+00	2.0E-01	1.8E+00
SS N 25	2.8E-01	1.5E-04	8.8E-04	3.7E-03	1.6E+00	8.4E-02	1.9E+00
SS N 26	2.8E-01	7.4E-02	8.8E-04	2.5E-03	2.9E+00	8.0E-01	4.1E+00
SS N 27	4.9E-01	1.7E-02	8.8E-04	5.6E-03	4.1E+00	3.6E-01	5.0E+00
SS N 28	3.4E-01	4.7E-02	8.8E-04	1.3E-05	2.6E+00	4.6E-01	3.4E+00
SS N 29	2.6E-02	1.5E-04	8.8E-04	4.0E-03	1.2E-01	2.3E-02	1.7E-01
SS N 30	4.3E-01	3.1E-02	8.8E-04	6.8E-04	3.4E+00	5.0E-01	4.4E+00
SS N 31	5.0E-01	5.9E-02	8.8E-04	2.2E-03	3.9E+00	7.3E-01	5.2E+00
SS N 32	4.2E-01	1.9E-02	8.8E-04	2.3E-03	6.0E+00	4.6E-01	6.9E+00
SS N 33	1.6E-01	4.1E-02	8.8E-04	3.0E-03	4.5E+00	4.7E-01	5.2E+00
SS N 34	1.0E-02	5.4E-03	8.8E-04	5.2E-03	5.9E-01	7.2E-02	6.9E-01
SS N 35	5.9E-02	3.1E-02	8.8E-04	2.6E-03	2.6E+00	3.6E-01	3.1E+00
SS N 36	5.7E-03	1.5E-04	8.8E-04	3.8E-04	2.1E-01	2.8E-02	2.5E-01
SS O 02	4.2E-02	1.5E-04	8.8E-04	4.7E-03	9.1E-02	1.1E-02	1.5E-01
SS O 03	5.0E-02	1.5E-04	8.8E-04	1.5E-03	9.3E-02	1.6E-02	1.6E-01
SS O 04	1.3E-02	1.5E-04	8.8E-04	3.6E-03	5.0E-02	1.2E-02	7.9E-02
SS O 05	1.4E-02	1.5E-04	8.8E-04	5.9E-03	5.3E-02	1.3E-02	8.7E-02
SS O 06	5.3E-03	1.5E-04	8.8E-04	8.7E-03	4.6E-02	1.1E-02	7.1E-02
SS O 07	2.3E-02	1.5E-04	8.8E-04	1.1E-02	6.1E-02	7.6E-03	1.0E-01
SS O 08	2.2E-02	1.5E-04	8.8E-04	3.2E-02	4.2E-02	1.3E-02	1.1E-01
SS O 09	4.2E-02	1.5E-04	8.8E-04	1.8E-02	4.0E-02	1.2E-02	1.1E-01
SS O 10	1.3E-02	1.5E-04	8.8E-04	2.1E-02	4.2E-02	1.5E-02	9.2E-02
SS O 11	3.2E-03	1.5E-04	8.8E-04	6.0E-03	1.2E-01	4.2E-02	1.7E-01
SS O 12	2.0E-03	1.5E-04	8.8E-04	4.5E-03	4.4E-02	2.2E-02	7.3E-02
SS O 13	4.5E-03	1.5E-04	8.8E-04	3.8E-03	5.2E-02	1.5E-02	7.6E-02
SS O 14	3.0E-03	1.5E-04	8.8E-04	2.9E-03	4.7E-02	1.5E-02	6.8E-02
SS O 15	7.4E-03	1.5E-04	8.8E-04	2.7E-03	7.8E-02	1.6E-02	1.0E-01
SS O 16	1.3E-02	1.5E-04	8.8E-04	3.4E-03	7.2E-02	1.3E-02	1.0E-01
SS O 17	1.1E-02	1.5E-04	8.8E-04	3.4E-03	6.8E-02	1.3E-02	9.7E-02
SS O 18	2.3E-02	1.5E-04	8.8E-04	3.9E-03	8.3E-02	1.4E-02	1.2E-01
SS O 19	4.0E-02	1.5E-04	8.8E-04	4.5E-03	1.2E-01	1.8E-02	1.9E-01
SS O 20	2.9E-02	1.5E-04	8.8E-04	5.3E-03	6.9E-02	1.4E-02	1.2E-01
SS O 21	1.3E-02	1.5E-04	8.8E-04	2.4E-03	8.6E-02	1.9E-02	1.2E-01

Data 6-4

Exposure Risk of Heavy Metals in Soil

(8)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS O 22	6.1E-02	1.5E-04	8.8E-04	5.6E-03	7.9E-02	1.5E-02	1.6E-01
SS O 23	1.2E-01	1.5E-04	8.8E-04	2.3E-03	4.9E-02	1.5E-02	1.9E-01
SS O 24	1.2E-01	1.5E-04	8.8E-04	4.3E-03	6.5E-02	1.4E-02	2.0E-01
SS O 25	1.2E-01	1.5E-04	8.8E-04	4.8E-03	8.9E-02	1.6E-02	2.3E-01
SS O 26	4.0E-01	1.5E-04	8.8E-04	3.7E-03	1.2E-01	1.4E-02	5.3E-01
SS O 27	2.8E-01	1.5E-04	8.8E-04	2.4E-03	3.6E-01	2.0E-02	6.6E-01
SS O 28	2.7E-01	4.4E-02	8.8E-04	2.8E-03	1.8E+00	4.9E-01	2.6E+00
SS O 29	3.4E-02	1.1E-01	8.8E-04	3.3E-03	5.2E+00	1.1E+00	6.4E+00
SS O 30	6.5E-01	3.2E-02	8.8E-04	2.7E-03	3.0E+00	3.7E-01	4.1E+00
SS O 31	1.6E-02	4.2E-03	8.8E-04	3.7E-03	1.4E-01	2.5E-02	1.9E-01
SS O 32	2.9E-02	1.5E-04	8.8E-04	2.9E-03	8.8E-02	1.8E-02	1.4E-01
SS O 33	5.4E-02	1.5E-04	8.8E-04	4.9E-03	1.3E-01	2.6E-02	2.1E-01
SS O 34	2.4E-02	1.5E-04	8.8E-04	3.7E-03	5.8E-01	4.3E-02	6.5E-01
SS O 35	3.2E-02	1.5E-04	8.8E-04	1.4E-03	7.4E-02	2.0E-02	1.3E-01
SS O 36	1.0E-02	1.5E-04	8.8E-04	6.8E-04	6.4E-02	1.9E-02	9.5E-02
SS P 01	1.1E-02	6.0E-04	8.8E-04	6.2E-03	4.6E-02	1.4E-02	7.9E-02
SS P 02	1.9E-02	1.5E-03	8.8E-04	1.8E-03	4.9E-02	1.4E-02	8.6E-02
SS P 03	6.3E-03	1.2E-03	8.8E-04	3.6E-03	4.0E-02	1.5E-02	6.7E-02
SS P 04	2.2E-02	6.0E-04	8.8E-04	6.7E-03	3.8E-02	1.2E-02	7.9E-02
SS P 05	1.0E-02	3.0E-04	8.8E-04	8.6E-03	3.5E-02	1.2E-02	6.7E-02
SS P 06	1.5E-02	6.0E-04	8.8E-04	1.4E-02	4.0E-02	1.5E-02	8.5E-02
SS P 07	1.3E-02	2.4E-03	8.8E-04	8.8E-03	4.9E-02	1.5E-02	8.9E-02
SS P 08	3.2E-02	9.0E-04	8.8E-04	1.0E-02	4.0E-02	1.3E-02	9.7E-02
SS P 09	3.3E-03	9.0E-04	8.8E-04	1.2E-03	3.9E-02	1.6E-02	6.1E-02
SS P 10	5.7E-03	3.3E-03	8.8E-04	3.6E-03	3.9E-02	1.7E-02	6.9E-02
SS P 11	4.2E-03	6.0E-04	8.8E-04	1.5E-03	2.9E-02	1.7E-02	5.3E-02
SS P 12	3.3E-03	1.2E-03	8.8E-04	2.5E-03	3.7E-02	1.5E-02	6.0E-02
SS P 13	6.6E-03	1.5E-03	8.8E-04	3.6E-03	4.0E-02	1.4E-02	6.6E-02
SS P 14	5.3E-02	3.0E-04	8.8E-04	3.7E-03	1.3E-01	1.8E-02	2.1E-01
SS P 15	1.1E-02	9.0E-04	8.8E-04	2.6E-03	5.2E-02	1.3E-02	8.1E-02
SS P 16	1.1E-02	3.0E-04	8.8E-04	2.4E-03	4.9E-02	1.3E-02	7.6E-02
SS P 17	4.6E-02	0.0E+00	8.8E-04	6.1E-03	1.0E-01	1.6E-02	1.7E-01
SS P 18	3.6E-02	3.0E-04	8.8E-04	7.7E-03	9.2E-02	1.7E-02	1.5E-01
SS P 19	3.8E-02	3.0E-04	8.8E-04	3.4E-03	9.9E-02	1.6E-02	1.6E-01
SS P 20	2.0E-02	9.0E-04	8.8E-04	2.0E-03	4.3E-02	1.5E-02	8.2E-02
SS P 21	2.5E-01	1.8E-02	8.8E-04	2.4E-03	3.2E+00	2.8E-01	3.7E+00
SS P 22	2.9E-02	4.5E-03	8.8E-04	2.6E-03	8.4E-02	1.8E-02	1.4E-01
SS P 23	4.3E-02	0.0E+00	8.8E-04	5.4E-03	5.6E-02	1.7E-02	1.2E-01
SS P 24	2.9E-02	1.2E-03	8.8E-04	4.0E-03	4.7E-02	1.5E-02	9.8E-02
SS P 25	7.4E-02	3.0E-04	8.8E-04	2.9E-03	6.8E-02	1.5E-02	1.6E-01
SS P 26	1.8E-01	1.2E-03	8.8E-04	5.8E-03	7.6E-02	1.7E-02	2.8E-01
SS P 27	1.2E-01	3.0E-04	8.8E-04	4.0E-03	1.4E-01	1.7E-02	2.9E-01
SS P 28	5.3E-02	1.5E-04	8.8E-04	1.1E-03	7.5E-01	2.5E-02	8.3E-01
SS P 29	4.0E-02	1.5E-04	8.8E-04	3.8E-03	1.3E+00	3.6E-02	1.4E+00
SS P 30	5.8E-02	1.5E-04	8.8E-04	6.4E-03	1.5E-01	1.9E-02	2.3E-01
SS P 31	5.5E-02	1.5E-04	8.8E-04	4.8E-03	8.8E-02	1.4E-02	1.6E-01
SS P 32	1.6E-01	1.5E-04	8.8E-04	4.5E-03	1.1E-01	1.4E-02	2.9E-01
SS P 33	1.7E-02	1.5E-04	8.8E-04	2.9E-03	1.5E-01	3.0E-02	2.0E-01
SS P 34	7.5E-05	1.5E-04	8.8E-04	6.8E-04	5.1E-02	1.4E-02	6.7E-02
SS P 35	2.7E-02	1.5E-04	8.8E-04	8.8E-04	4.9E-02	1.5E-02	9.3E-02
SS P 36	6.4E-03	1.5E-04	8.8E-04	1.7E-03	5.9E-02	1.6E-02	8.4E-02

Data 6-4

Exposure Risk of Heavy Metals in Soil

(9)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS Q 01	1.9E-02	1.2E-03	8.8E-04	2.9E-03	5.5E-02	1.4E-02	9.4E-02
SS Q 02	9.5E-03	9.0E-04	8.8E-04	1.9E-03	4.8E-02	1.6E-02	7.7E-02
SS Q 03	1.0E-02	1.2E-03	8.8E-04	5.6E-03	4.4E-02	1.7E-02	7.9E-02
SS Q 04	9.2E-03	1.2E-03	8.8E-04	4.0E-03	4.2E-02	1.2E-02	6.9E-02
SS Q 05	1.0E-02	6.0E-04	8.8E-04	1.7E-02	3.6E-02	1.1E-02	7.6E-02
SS Q 06	2.1E-02	3.0E-04	8.8E-04	5.0E-03	3.6E-02	1.1E-02	7.5E-02
SS Q 07	1.6E-02	6.0E-04	8.8E-04	8.6E-03	3.9E-02	1.1E-02	7.6E-02
SS Q 08	1.7E-02	3.0E-04	8.8E-04	4.2E-03	3.6E-02	1.2E-02	7.1E-02
SS Q 09	1.3E-02	3.0E-04	8.8E-04	6.3E-03	3.6E-02	1.3E-02	6.9E-02
SS Q 10	3.6E-03	6.0E-04	8.8E-04	3.7E-03	3.6E-02	1.3E-02	5.8E-02
SS Q 11	5.9E-03	1.5E-03	8.8E-04	2.5E-03	4.3E-02	1.3E-02	6.7E-02
SS Q 12	7.5E-05	1.5E-03	8.8E-04	3.2E-03	2.8E-02	1.1E-02	4.5E-02
SS Q 13	3.3E-03	1.2E-03	8.8E-04	2.8E-03	4.7E-02	1.3E-02	6.8E-02
SS Q 14	2.5E-02	1.5E-03	8.8E-04	3.9E-03	9.4E-02	1.5E-02	1.4E-01
SS Q 15	1.5E-02	2.1E-03	8.8E-04	4.2E-03	5.0E-02	1.3E-02	8.6E-02
SS Q 16	3.5E-02	6.0E-04	8.8E-04	4.3E-03	8.0E-02	1.6E-02	1.4E-01
SS Q 17	3.8E-02	1.5E-03	8.8E-04	8.1E-03	1.1E-01	1.4E-02	1.7E-01
SS Q 18	3.4E-02	1.2E-03	8.8E-04	5.4E-03	9.2E-02	1.4E-02	1.5E-01
SS Q 19	2.3E-02	1.5E-03	8.8E-04	3.7E-03	7.1E-02	1.4E-02	1.1E-01
SS Q 20	1.2E-01	4.2E-03	8.8E-04	1.6E-03	1.3E+00	1.1E-01	1.5E+00
SS Q 21	5.8E-02	1.5E-03	8.8E-04	2.7E-03	7.8E-02	1.8E-02	1.6E-01
SS Q 22	1.1E-01	3.0E-04	8.8E-04	3.2E-03	6.9E-02	1.7E-02	2.0E-01
SS Q 23	4.4E-02	3.3E-03	8.8E-04	2.0E-03	1.7E-01	2.5E-02	2.5E-01
SS Q 24	5.5E-02	9.0E-04	8.8E-04	4.6E-03	2.3E-01	2.1E-02	3.2E-01
SS Q 25	4.5E-02	6.0E-04	8.8E-04	4.0E-03	1.4E-01	1.7E-02	2.0E-01
SS Q 26	4.7E-02	9.0E-04	8.8E-04	2.1E-03	9.5E-02	1.8E-02	1.6E-01
SS Q 27	2.0E-01	9.0E-04	8.8E-04	3.3E-03	8.2E-02	1.5E-02	3.0E-01
SS Q 28	5.4E-02	1.5E-04	8.8E-04	1.4E-03	8.7E-02	1.9E-02	1.6E-01
SS Q 29	2.6E-02	3.0E-03	8.8E-04	3.6E-03	1.1E-01	1.9E-02	1.6E-01
SS Q 30	2.5E-02	1.5E-04	8.8E-04	3.4E-03	8.0E-02	2.3E-02	1.3E-01
SS Q 31	2.2E-02	1.5E-04	8.8E-04	3.1E-03	7.9E-02	2.4E-02	1.3E-01
SS Q 32	1.1E-02	1.5E-03	8.8E-04	2.9E-03	7.2E-02	2.0E-02	1.1E-01
SS Q 33	6.9E-03	2.7E-03	8.8E-04	2.1E-03	4.7E-02	1.4E-02	7.4E-02
SS R 01	8.2E-03	1.5E-04	8.8E-04	2.2E-03	4.6E-02	1.3E-02	7.0E-02
SS R 02	7.2E-03	1.5E-04	8.8E-04	5.0E-03	4.3E-02	1.1E-02	6.8E-02
SS R 03	1.1E-02	1.5E-04	8.8E-04	4.5E-03	5.4E-02	1.5E-02	8.5E-02
SS R 04	9.9E-03	1.5E-04	8.8E-04	4.6E-03	6.1E-02	1.7E-02	9.4E-02
SS R 05	1.1E-02	1.5E-04	8.8E-04	5.9E-03	6.2E-02	1.7E-02	9.7E-02
SS R 06	2.1E-02	1.5E-04	8.8E-04	4.0E-03	5.3E-02	1.3E-02	9.2E-02
SS R 07	1.4E-02	1.5E-04	8.8E-04	8.2E-03	5.6E-02	1.5E-02	9.3E-02
SS R 08	1.5E-02	1.5E-04	8.8E-04	7.3E-03	5.0E-02	1.5E-02	8.8E-02
SS R 09	4.2E-03	1.5E-04	8.8E-04	3.2E-03	5.0E-02	1.6E-02	7.4E-02
SS R 10	6.2E-03	1.5E-04	8.8E-04	2.6E-03	4.3E-02	1.5E-02	6.9E-02
SS R 11	4.5E-03	1.5E-04	8.8E-04	3.6E-03	5.3E-02	1.4E-02	7.6E-02
SS R 12	2.4E-03	1.5E-04	8.8E-04	3.2E-03	4.0E-02	1.3E-02	5.9E-02
SS R 13	2.6E-03	1.5E-04	8.8E-04	3.1E-03	6.4E-02	1.4E-02	8.5E-02
SS R 14	3.3E-03	1.2E-02	8.8E-04	4.8E-03	8.1E-01	1.1E-01	9.4E-01
SS R 15	8.9E-03	3.6E-02	8.8E-04	3.1E-03	2.6E+00	3.6E-01	3.0E+00
SS R 16	3.2E-03	1.7E-02	8.8E-04	3.9E-03	1.1E+00	1.7E-01	1.3E+00
SS R 17	2.1E-02	1.5E-04	8.8E-04	2.2E-03	1.3E-01	1.9E-02	1.7E-01
SS R 18	2.1E-02	4.5E-03	8.8E-04	6.1E-03	2.6E-01	1.6E-03	2.9E-01

Data 6-4

Exposure Risk of Heavy Metals in Soil

(10)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS R 19	1.9E-02	1.5E-04	8.8E-04	2.7E-03	9.6E-02	1.9E-02	1.4E-01
SS R 20	3.5E-02	1.5E-04	8.8E-04	5.5E-03	9.6E-02	2.9E-02	1.7E-01
SS R 21	3.5E-02	1.5E-04	8.8E-04	9.9E-03	7.4E-02	1.8E-02	1.4E-01
SS R 22	5.3E-02	1.5E-04	8.8E-04	6.9E-03	1.2E-01	2.7E-02	2.1E-01
SS R 23	5.7E-02	1.5E-04	8.8E-04	2.4E-03	7.5E-02	1.8E-02	1.5E-01
SS R 24	7.4E-02	1.5E-04	8.8E-04	1.1E-03	5.0E-02	1.5E-02	1.4E-01
SS R 25	8.4E-01	8.3E-03	8.8E-04	2.4E-03	6.9E-02	1.6E-02	9.4E-01
SS R 26	2.4E-01	3.0E-03	8.8E-04	2.4E-03	6.6E-02	1.3E-02	3.2E-01
SS R 27	1.6E-01	1.5E-04	8.8E-04	2.6E-03	5.6E-02	1.7E-02	2.4E-01
SS R 28	7.1E-02	1.5E-04	8.8E-04	2.9E-03	8.3E-02	1.9E-02	1.8E-01
SS R 29	3.6E-02	1.5E-04	8.8E-04	3.8E-03	5.4E-02	1.4E-02	1.1E-01
SS R 30	4.5E-02	1.5E-04	8.8E-04	3.6E-03	6.9E-02	1.2E-02	1.3E-01
SS R 31	1.3E-02	1.5E-04	8.8E-04	2.4E-03	6.0E-02	1.8E-02	9.4E-02
SS R 32	1.1E-02	1.5E-04	8.8E-04	2.1E-03	9.0E-02	1.9E-02	1.2E-01
SS R 33	1.1E-02	1.5E-04	8.8E-04	1.9E-03	5.1E-02	1.3E-02	7.9E-02
SS S 01	1.5E-02	1.5E-04	8.8E-04	6.6E-03	3.7E-02	1.1E-02	7.0E-02
SS S 02	6.9E-03	1.5E-04	8.8E-04	7.2E-03	4.1E-02	1.1E-02	6.7E-02
SS S 03	9.5E-03	1.5E-04	8.8E-04	2.2E-03	4.0E-02	1.4E-02	6.7E-02
SS S 04	7.4E-03	1.5E-04	8.8E-04	1.0E-02	1.3E-01	1.9E-02	1.6E-01
SS S 05	1.1E-02	6.0E-03	8.8E-04	9.6E-03	1.8E-01	4.4E-02	2.5E-01
SS S 06	1.7E-02	1.1E-02	8.8E-04	7.3E-03	4.0E-01	9.1E-02	5.2E-01
SS S 07	2.0E-02	1.6E-02	8.8E-04	7.0E-03	8.1E-01	1.4E-01	1.0E+00
SS S 08	1.8E-02	9.0E-03	8.8E-04	7.8E-03	3.3E-01	7.1E-02	4.4E-01
SS S 09	4.1E-02	2.7E-02	8.8E-04	4.7E-03	1.4E+00	2.2E-01	1.7E+00
SS S 10	5.7E-02	2.5E-02	8.8E-04	3.5E-03	1.8E+00	2.6E-01	2.1E+00
SS S 11	3.2E-02	2.8E-02	8.8E-04	5.0E-03	1.2E+00	2.3E-01	1.5E+00
SS S 12	4.6E-02	2.4E-02	8.8E-04	4.8E-03	1.3E+00	2.2E-01	1.6E+00
SS S 13	1.0E-01	2.1E-02	8.8E-04	4.0E-03	1.6E+00	2.1E-01	1.9E+00
SS S 14	3.6E-02	1.2E-02	8.8E-04	4.8E-03	7.1E-01	1.1E-01	8.7E-01
SS S 15	1.3E-01	3.4E-02	8.8E-04	3.3E-03	2.3E+00	3.6E-01	2.8E+00
SS S 16	6.1E-02	1.6E-02	8.8E-04	4.0E-03	9.7E-01	1.7E-01	1.2E+00
SS S 17	1.3E-01	2.1E-02	8.8E-04	2.7E-03	1.9E+00	2.3E-01	2.3E+00
SS S 18	2.5E-02	8.7E-03	8.8E-04	5.6E-03	4.7E-01	7.3E-02	5.8E-01
SS S 19	1.9E-02	1.5E-04	8.8E-04	3.5E-03	6.2E-02	1.6E-02	1.0E-01
SS S 20	2.6E-02	1.5E-04	8.8E-04	7.1E-03	6.9E-02	1.6E-02	1.2E-01
SS S 21	8.1E-02	2.4E-03	8.8E-04	1.1E-03	3.2E-02	1.5E-02	1.3E-01
SS S 22	8.8E-02	2.1E-03	8.8E-04	5.4E-03	7.0E-02	2.1E-02	1.9E-01
SS S 23	1.1E+00	6.9E-03	8.8E-04	3.3E-03	4.9E-02	1.5E-02	1.2E+00
SS S 24	2.0E-01	2.1E-03	8.8E-04	2.8E-03	6.0E-02	1.4E-02	2.8E-01
SS S 25	2.1E-01	2.4E-03	8.8E-04	5.2E-03	5.8E-02	2.2E-02	3.0E-01
SS S 26	2.4E-01	2.7E-03	8.8E-04	2.2E-03	3.7E-02	1.4E-02	2.9E-01
SS S 27	2.0E-01	2.4E-03	8.8E-04	1.7E-03	5.5E-02	1.8E-02	2.8E-01
SS S 28	2.0E-02	3.0E-03	8.8E-04	5.6E-03	6.1E-02	1.7E-02	1.1E-01
SS S 29	8.9E-03	1.5E-04	8.8E-04	6.6E-03	5.2E-02	1.3E-02	8.1E-02
SS S 30	1.8E-02	3.4E-03	8.8E-04	4.5E-03	1.5E-01	2.5E-02	2.0E-01
SS S 31	2.0E-02	3.3E-03	8.8E-04	2.8E-03	2.2E-01	2.6E-02	2.7E-01
SS S 32	1.2E-02	1.5E-04	8.8E-04	1.6E-03	6.5E-02	2.2E-02	1.0E-01
SS S 33	3.0E-02	3.7E-03	8.8E-04	1.8E-03	6.7E-02	2.2E-02	1.3E-01
SS T 01	1.3E-02	3.2E-03	8.8E-04	6.6E-03	6.4E-02	1.8E-02	1.1E-01
SS T 02	1.1E-02	3.1E-03	8.8E-04	1.0E-02	7.7E-02	2.0E-02	1.2E-01
SS T 03	6.7E-03	3.6E-03	8.8E-04	1.2E-02	8.1E-02	2.6E-02	1.3E-01

Data 6-4

Exposure Risk of Heavy Metals in Soil

(11)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS T 04	8.4E-03	3.4E-03	8.8E-04	1.1E-02	8.8E-02	2.7E-02	1.4E-01
SS T 05	3.7E-02	3.0E-02	8.8E-04	7.2E-03	1.4E+00	2.5E-01	1.7E+00
SS T 06	4.4E-02	1.8E-02	8.8E-04	4.3E-03	8.4E-01	1.5E-01	1.1E+00
SS T 07	3.7E-02	1.7E-02	8.8E-04	3.6E-03	6.2E-01	1.4E-01	8.2E-01
SS T 08	4.1E-02	1.1E-02	8.8E-04	2.2E-03	6.8E-01	1.0E-01	8.4E-01
SS T 09	8.6E-02	2.9E-02	8.8E-04	2.7E-03	1.6E+00	2.6E-01	2.0E+00
SS T 10	2.5E-02	2.5E-02	8.8E-04	3.3E-03	1.2E+00	2.2E-01	1.5E+00
SS T 11	3.3E-02	7.8E-03	8.8E-04	5.2E-03	4.4E-01	7.4E-02	5.6E-01
SS T 12	2.0E-02	1.5E-04	8.8E-04	2.8E-03	4.6E-02	1.5E-02	8.6E-02
SS T 13	1.6E-02	1.5E-04	8.8E-04	2.3E-03	4.2E-02	1.5E-02	7.7E-02
SS T 14	3.4E-02	1.5E-04	8.8E-04	2.3E-03	3.8E-02	1.5E-02	9.1E-02
SS T 15	3.2E-03	1.5E-04	8.8E-04	2.0E-03	2.8E-02	1.2E-02	4.6E-02
SS T 16	7.5E-03	1.5E-04	8.8E-04	2.2E-03	4.9E-02	2.1E-02	8.0E-02
SS T 17	1.4E-02	1.5E-04	8.8E-04	1.1E-03	3.7E-02	1.6E-02	6.9E-02
SS T 18	3.6E-02	1.5E-04	8.8E-04	2.3E-03	4.8E-02	1.6E-02	1.0E-01
SS T 19	2.3E-02	4.4E-03	8.8E-04	2.8E-03	3.2E-01	4.4E-02	3.9E-01
SS T 20	2.6E-02	4.0E-03	8.8E-04	3.0E-03	3.3E-01	4.1E-02	4.0E-01
SS T 21	8.5E-02	1.5E-04	8.8E-04	3.4E-03	3.1E-01	5.0E-02	4.5E-01
SS T 22	1.6E-01	1.5E-04	8.8E-04	2.4E-03	3.0E-02	1.2E-02	2.1E-01
SS T 23	5.1E-01	1.5E-04	8.8E-04	1.7E-03	2.8E-02	1.1E-02	5.6E-01
SS T 24	1.0E+00	6.7E-03	8.8E-04	4.0E-03	4.6E-02	1.6E-02	1.1E+00
SS T 25	4.1E-02	1.5E-04	8.8E-04	2.7E-03	3.5E-02	1.5E-02	9.5E-02
SS T 26	9.1E-02	1.5E-04	8.8E-04	1.6E-03	2.9E-02	1.2E-02	1.3E-01
SS T 27	4.9E-02	1.5E-04	8.8E-04	2.9E-03	6.2E-02	1.8E-02	1.3E-01
SS T 28	1.4E-02	1.5E-04	8.8E-04	8.0E-03	3.6E-02	1.2E-02	7.2E-02
SS T 29	1.6E-02	1.5E-04	8.8E-04	5.4E-03	4.6E-02	1.2E-02	8.0E-02
SS T 30	1.8E-02	1.5E-04	8.8E-04	3.7E-03	5.6E-02	1.5E-02	9.4E-02
SS T 31	1.8E-02	1.5E-04	8.8E-04	2.1E-03	5.7E-02	1.8E-02	9.5E-02
SS T 32	4.8E-02	1.2E-02	8.8E-04	1.6E-03	7.0E-01	1.4E-01	9.0E-01
SS T 33	1.3E-01	1.5E-04	8.8E-04	1.0E-03	5.4E-02	2.1E-02	2.0E-01
SS U 01	4.2E-03	1.5E-04	8.8E-04	4.2E-03	6.8E-02	1.5E-02	9.2E-02
SS U 02	1.1E-02	7.3E-03	8.8E-04	7.0E-03	3.1E-01	6.8E-02	4.0E-01
SS U 03	1.7E-02	9.1E-03	8.8E-04	6.0E-03	3.8E-01	8.1E-02	4.9E-01
SS U 04	2.5E-02	9.9E-03	8.8E-04	4.2E-03	4.0E-01	1.0E-01	5.4E-01
SS U 05	2.0E-02	1.2E-02	8.8E-04	4.8E-03	5.2E-01	1.2E-01	6.7E-01
SS U 06	4.6E-03	1.5E-04	8.8E-04	2.7E-03	8.0E-02	2.3E-02	1.1E-01
SS U 07	2.2E-02	1.5E-04	8.8E-04	3.9E-03	5.8E-02	2.6E-02	1.1E-01
SS U 08	1.7E-02	1.5E-04	8.8E-04	3.9E-03	3.3E-02	1.1E-02	6.5E-02
SS U 09	4.1E-02	1.5E-04	8.8E-04	5.0E-03	4.9E-02	2.1E-02	1.2E-01
SS U 10	6.0E-02	1.5E-04	8.8E-04	4.2E-03	6.5E-02	2.3E-02	1.5E-01
SS U 11	4.8E-02	1.5E-04	8.8E-04	4.0E-03	6.1E-02	2.2E-02	1.4E-01
SS U 12	1.8E-02	3.2E-03	8.8E-04	4.1E-03	5.9E-02	1.4E-02	1.0E-01
SS U 13	1.2E-02	3.0E-03	8.8E-04	3.1E-03	9.0E-02	2.0E-02	1.3E-01
SS U 14	1.4E-02	1.5E-04	8.8E-04	2.4E-03	1.1E-01	1.7E-02	1.5E-01
SS U 15	1.1E-02	3.2E-03	8.8E-04	2.3E-03	9.0E-02	1.1E-02	1.2E-01
SS U 16	6.0E-03	3.2E-03	8.8E-04	2.3E-03	9.0E-02	1.1E-02	1.1E-01
SS U 17	1.0E-02	1.5E-04	8.8E-04	1.5E-03	5.6E-02	7.0E-03	7.6E-02
SS U 18	2.2E-02	3.2E-03	8.8E-04	2.3E-03	9.0E-02	1.1E-02	1.3E-01
SS U 19	1.7E-02	3.2E-03	8.8E-04	2.3E-03	9.0E-02	1.1E-02	1.2E-01
SS U 20	1.1E-02	1.5E-04	8.8E-04	2.2E-03	3.6E-02	1.5E-02	6.5E-02
SS U 21	6.4E-02	1.5E-04	8.8E-04	2.5E-03	3.9E-02	1.8E-02	1.2E-01

Data 6-4

Exposure Risk of Heavy Metals in Soil

(12)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS U 22	2.7E-02	4.3E-03	8.8E-04	5.5E-03	3.8E-01	5.3E-02	4.7E-01
SS U 23	9.8E-02	3.2E-03	8.8E-04	2.0E-03	4.8E-01	6.0E-02	6.4E-01
SS U 24	2.8E-01	1.5E-04	8.8E-04	2.5E-03	5.4E-02	2.0E-02	3.6E-01
SS U 25	1.1E-01	1.5E-04	8.8E-04	1.8E-03	2.7E-02	8.9E-03	1.5E-01
SS U 26	1.7E-01	1.5E-04	8.8E-04	1.2E-03	2.6E-02	8.6E-03	2.0E-01
SS U 27	1.1E+00	2.8E-03	8.8E-04	1.6E-03	3.5E-02	8.8E-03	1.1E+00
SS U 28	1.8E-02	1.5E-04	8.8E-04	5.1E-03	3.1E-01	2.6E-02	3.6E-01
SS U 29	2.7E-02	1.5E-04	8.8E-04	4.9E-03	6.9E-02	1.5E-02	1.2E-01
SS U 30	6.5E-02	1.3E-02	8.8E-04	2.4E-03	1.4E+00	1.4E-01	1.6E+00
SS U 31	1.4E-01	1.5E-04	8.8E-04	1.1E-03	4.0E-02	1.9E-02	2.0E-01
SS U 32	1.7E-01	1.5E-04	8.8E-04	1.7E-03	3.4E-02	1.5E-02	2.2E-01
SS U 33	1.2E-01	1.5E-04	8.8E-04	2.4E-03	4.6E-02	1.4E-02	1.8E-01
SS V 01	2.0E-02	6.4E-03	8.8E-04	4.9E-03	3.9E-01	6.8E-02	4.9E-01
SS V 02	3.2E-02	1.1E-02	8.8E-04	5.9E-03	5.2E-01	1.4E-01	7.1E-01
SS V 03	3.3E-02	9.3E-03	8.8E-04	5.3E-03	4.6E-01	1.1E-01	6.1E-01
SS V 04	3.3E-02	1.4E-02	8.8E-04	4.0E-03	5.9E-01	1.3E-01	7.8E-01
SS V 05	4.3E-02	1.5E-04	8.8E-04	6.6E-03	5.7E-02	3.4E-02	1.4E-01
SS V 06	2.6E-02	1.5E-04	8.8E-04	7.2E-03	5.1E-02	2.0E-02	1.0E-01
SS V 07	5.9E-02	1.5E-04	8.8E-04	4.7E-03	4.8E-02	2.3E-02	1.4E-01
SS V 08	3.3E-02	1.5E-04	8.8E-04	4.4E-03	5.0E-02	1.5E-02	1.0E-01
SS V 09	3.5E-02	1.5E-04	8.8E-04	4.7E-03	4.3E-02	1.6E-02	1.0E-01
SS V 10	3.5E-02	1.5E-04	8.8E-04	6.0E-03	4.1E-02	2.3E-02	1.1E-01
SS V 11	1.1E-02	1.5E-04	8.8E-04	1.5E-03	3.7E-02	1.3E-02	6.3E-02
SS V 12	1.8E-02	1.5E-04	8.8E-04	1.3E-03	3.7E-02	1.2E-02	6.9E-02
SS V 13	1.0E-02	1.5E-04	8.8E-04	1.5E-03	4.5E-02	1.1E-02	6.8E-02
SS V 14	1.6E-02	1.5E-04	8.8E-04	1.7E-03	2.9E-02	1.3E-02	6.1E-02
SS V 15	5.7E-03	1.5E-04	8.8E-04	2.2E-03	1.6E-02	1.1E-02	3.6E-02
SS V 16	2.5E-02	1.5E-04	8.8E-04	5.3E-04	5.6E-02	9.2E-03	9.1E-02
SS V 17	1.1E-02	1.5E-04	8.8E-04	8.3E-03	3.7E-02	1.3E-02	7.0E-02
SS V 18	1.0E-02	1.5E-04	8.8E-04	3.8E-03	4.6E-02	1.6E-02	7.7E-02
SS V 19	3.0E-03	1.5E-04	8.8E-04	1.7E-03	2.7E-02	1.4E-02	4.7E-02
SS V 20	1.1E-02	1.5E-04	8.8E-04	3.0E-03	3.1E-02	1.4E-02	6.0E-02
SS V 21	4.4E-02	1.5E-04	8.8E-04	2.0E-03	3.1E-02	1.4E-02	9.2E-02
SS V 22	9.3E-03	1.5E-04	8.8E-04	2.2E-03	3.1E-02	1.5E-02	5.9E-02
SS V 23	1.5E-02	1.5E-04	8.8E-04	3.0E-03	5.2E-02	1.6E-02	8.7E-02
SS V 24	2.8E-02	6.0E-03	8.8E-04	3.2E-03	6.6E-01	7.0E-02	7.7E-01
SS V 25	5.0E-02	3.0E-03	8.8E-04	2.7E-03	2.7E-01	4.0E-02	3.7E-01
SS V 26	1.4E-01	1.5E-04	8.8E-04	3.0E-03	1.3E-01	2.3E-02	3.0E-01
SS V 27	1.3E-01	1.5E-04	8.8E-04	1.7E-03	5.3E-02	1.2E-02	2.0E-01
SS V 28	5.5E-02	5.4E-03	8.8E-04	3.0E-03	6.9E-01	7.8E-02	8.3E-01
SS V 29	1.6E-01	1.5E-04	8.8E-04	2.7E-03	3.8E-02	1.9E-02	2.2E-01
SS V 30	6.8E-02	1.5E-04	8.8E-04	1.6E-02	5.3E-02	1.6E-02	1.5E-01
SS V 31	1.1E-01	1.5E-04	8.8E-04	7.4E-03	4.3E-02	1.6E-02	1.7E-01
SS V 32	1.0E-01	1.5E-04	8.8E-04	2.2E-03	5.8E-02	1.4E-02	1.8E-01
SS V 33	2.7E-02	1.5E-04	8.8E-04	2.9E-03	4.3E-02	1.4E-02	8.7E-02
SS W 01	5.5E-02	2.2E-02	8.8E-04	3.6E-03	9.9E-01	1.8E-01	1.3E+00
SS W 02	5.2E-02	2.2E-02	8.8E-04	4.2E-03	1.1E+00	2.1E-01	1.4E+00
SS W 03	3.3E-02	1.5E-04	8.8E-04	4.7E-03	4.7E-02	1.6E-02	1.0E-01
SS W 04	4.8E-02	1.5E-04	8.8E-04	5.6E-03	5.5E-02	1.4E-02	1.2E-01
SS W 05	5.1E-02	1.5E-04	8.8E-04	5.6E-03	5.6E-02	2.3E-02	1.4E-01
SS W 06	4.2E-02	1.5E-04	8.8E-04	6.2E-03	6.0E-02	1.8E-02	1.3E-01

Data 6-4

Exposure Risk of Heavy Metals in Soil

(13)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS W 07	4.9E-02	1.5E-04	8.8E-04	6.1E-03	5.8E-02	2.2E-02	1.4E-01
SS W 08	4.8E-02	1.5E-04	8.8E-04	6.2E-03	5.8E-02	2.2E-02	1.4E-01
SS W 09	7.7E-02	1.5E-04	8.8E-04	7.2E-04	3.3E-02	9.6E-03	1.2E-01
SS W 10	9.5E-03	1.5E-04	8.8E-04	4.6E-03	2.6E-02	1.1E-02	5.3E-02
SS W 11	6.3E-03	1.5E-04	8.8E-04	4.1E-03	2.9E-02	1.1E-02	5.1E-02
SS W 12	1.9E-02	1.5E-04	8.8E-04	3.1E-03	3.4E-02	9.2E-03	6.6E-02
SS W 13	1.9E-02	1.5E-04	8.8E-04	3.0E-03	4.1E-02	9.9E-03	7.4E-02
SS W 14	8.3E-03	1.5E-04	8.8E-04	2.5E-03	3.3E-02	1.0E-02	5.5E-02
SS W 15	1.4E-02	1.5E-04	8.8E-04	2.7E-03	2.1E-02	9.9E-03	4.8E-02
SS W 16	2.7E-03	1.5E-04	8.8E-04	2.5E-03	1.8E-02	1.0E-02	3.5E-02
SS W 17	5.1E-03	1.5E-04	8.8E-04	3.3E-03	3.6E-02	9.9E-03	5.5E-02
SS W 18	1.1E-02	1.5E-04	8.8E-04	2.1E-03	3.0E-02	9.7E-03	5.4E-02
SS W 19	3.3E-02	1.5E-04	8.8E-04	4.2E-03	3.0E-02	1.1E-02	8.0E-02
SS W 20	3.6E-02	1.5E-04	8.8E-04	2.6E-03	2.4E-02	1.2E-02	7.6E-02
SS W 21	1.1E-02	1.5E-04	8.8E-04	3.2E-03	3.3E-02	1.2E-02	6.0E-02
SS W 22	1.1E-02	1.5E-04	8.8E-04	3.8E-03	3.7E-02	1.7E-02	7.0E-02
SS W 23	2.6E-02	1.5E-04	8.8E-04	2.5E-03	3.4E-02	1.9E-02	8.2E-02
SS W 24	3.1E-02	1.5E-04	8.8E-04	2.7E-03	3.4E-02	1.6E-02	8.4E-02
SS W 25	1.1E-01	1.5E-04	8.8E-04	4.5E-03	8.3E-02	2.6E-02	2.2E-01
SS W 26	2.6E-02	1.5E-04	8.8E-04	6.4E-03	1.1E-01	3.0E-02	1.7E-01
SS W 27	1.4E-01	1.5E-04	8.8E-04	8.3E-03	2.6E-01	6.5E-02	4.8E-01
SS W 28	6.2E-01	1.5E-04	8.8E-04	8.4E-03	4.4E-02	1.3E-02	6.8E-01
SS W 29	2.8E-01	1.5E-04	8.8E-04	7.1E-02	7.7E-02	2.3E-02	4.5E-01
SS W 30	3.8E-01	1.5E-04	8.8E-04	2.6E-02	5.7E-02	2.1E-02	4.8E-01
SS W 31	8.1E-02	1.5E-04	8.8E-04	2.1E-02	4.5E-02	1.6E-02	1.6E-01
SS W 32	7.5E-02	1.5E-04	8.8E-04	2.7E-03	6.0E-02	2.4E-02	1.6E-01
SS W 33	1.0E-01	1.5E-04	8.8E-04	3.3E-03	6.3E-02	2.3E-02	1.9E-01
SS X 24	2.2E-02	1.5E-04	8.8E-04	2.3E-03	3.4E-02	1.4E-02	7.4E-02
SS X 25	1.5E-01	1.5E-04	8.8E-04	6.0E-03	4.2E-02	1.6E-02	2.1E-01
SS X 26	5.9E-02	1.5E-04	8.8E-04	1.1E-03	2.2E-02	1.0E-02	9.3E-02
SS X 27	2.2E-02	1.5E-04	8.8E-04	7.3E-03	1.1E-01	3.3E-02	1.7E-01
SS X 28	1.5E-01	3.0E-03	8.8E-04	3.6E-02	5.4E-02	1.3E-02	2.6E-01
SS X 29	1.9E-01	1.5E-04	8.8E-04	1.6E-02	4.6E-02	1.2E-02	2.7E-01
SS X 30	1.4E-01	1.5E-04	8.8E-04	8.6E-03	5.1E-02	1.2E-02	2.1E-01
SS X 31	9.0E-02	1.5E-04	8.8E-04	2.5E-03	4.5E-02	1.1E-02	1.5E-01
SS X 32	1.2E-02	1.5E-04	8.8E-04	4.6E-03	4.0E-02	1.1E-02	6.9E-02
SS X 33	6.4E-02	1.5E-04	8.8E-04	1.5E-03	4.5E-02	1.0E-02	1.2E-01
SS Y 24	1.6E-01	1.5E-04	8.8E-04	3.1E-03	3.9E-02	2.5E-02	2.3E-01
SS Y 25	3.3E-01	1.5E-04	8.8E-04	2.5E-03	3.8E-02	1.8E-02	3.9E-01
SS Y 26	1.5E-01	1.5E-04	8.8E-04	3.1E-03	5.4E-02	1.3E-02	2.2E-01
SS Y 27	8.9E-02	1.5E-04	8.8E-04	2.5E-03	4.6E-02	1.4E-02	1.5E-01
SS Y 28	7.1E-02	1.5E-04	8.8E-04	4.9E-03	1.2E-01	2.8E-02	2.3E-01
SS Y 29	6.3E-02	1.5E-04	8.8E-04	5.3E-03	1.1E-01	3.6E-02	2.1E-01
SS Y 30	7.2E-02	1.5E-04	8.8E-04	3.7E-03	7.9E-02	2.4E-02	1.8E-01
SS Y 31	5.0E-02	3.5E-03	8.8E-04	3.1E-03	1.1E-01	6.1E-02	2.2E-01
SS Y 32	2.9E-02	5.3E-03	8.8E-04	4.9E-03	2.0E-01	8.8E-02	3.3E-01
SS Y 33	2.3E-02	5.3E-03	8.8E-04	3.2E-03	1.2E-01	8.3E-02	2.4E-01
SS Z 24	2.1E-01	1.5E-04	8.8E-04	3.9E-03	8.0E-02	4.4E-02	3.3E-01
SS Z 25	5.3E-01	1.5E-04	1.9E-03	1.6E-03	2.5E-01	2.2E-02	8.1E-01
SS Z 26	2.2E-01	1.5E-04	4.1E-03	3.3E-03	1.8E-01	4.6E-02	4.5E-01
SS Z 27	9.6E-02	1.5E-04	8.8E-04	2.9E-03	5.9E-02	1.6E-02	1.8E-01

Data 6-4

Exposure Risk of Heavy Metals in Soil

(14)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS Z 28	5.5E-02	2.3E-02	8.8E-04	2.6E-03	1.4E-01	6.6E-02	2.9E-01
SS Z 29	7.5E-02	3.9E-03	8.8E-04	5.0E-03	1.0E-01	2.8E-02	2.1E-01
SS Z 30	1.2E-02	4.6E-03	8.8E-04	1.9E-03	1.6E-01	9.5E-02	2.8E-01
SS Z 31	7.5E-04	4.8E-03	8.8E-04	1.9E-03	9.5E-02	4.0E-02	1.4E-01
SS Z 32	1.5E-02	4.6E-03	8.8E-04	4.3E-03	1.6E-01	9.5E-02	2.8E-01
SS Z 33	1.4E-02	4.0E-03	8.8E-04	2.2E-03	1.0E-01	9.2E-02	2.2E-01
SS a 24	2.1E-01	1.5E-04	8.8E-04	3.2E-03	1.4E-01	3.2E-02	3.9E-01
SS a 25	2.2E-01	1.5E-04	8.8E-04	1.7E-03	1.1E+00	1.5E-02	1.4E+00
SS a 26	4.2E-02	3.9E-03	8.8E-04	4.9E-03	2.1E-01	6.9E-02	3.3E-01
SS a 27	8.9E-02	1.5E-04	8.8E-04	2.1E-03	3.6E-02	1.4E-02	1.4E-01
SS a 28	6.4E-02	3.5E-02	8.8E-04	2.2E-03	2.7E-01	1.4E-01	5.1E-01
SS a 29	2.3E-02	5.9E-03	8.8E-04	5.6E-03	1.7E-01	4.5E-02	2.5E-01
SS a 30	2.8E-02	1.3E-02	8.8E-04	1.1E-03	3.8E-01	1.1E-01	5.4E-01
SS a 31	5.3E-03	7.1E-03	8.8E-04	2.4E-03	1.7E-01	9.8E-02	2.8E-01
SS a 32	3.2E-03	1.5E-04	8.8E-04	5.9E-03	1.2E-01	3.3E-02	1.6E-01
SS a 33	9.4E-03	1.5E-04	8.8E-04	3.3E-03	7.1E-02	6.9E-02	1.5E-01
Maximum	1.1E+00	1.4E-01	4.1E-03	7.1E-02	1.8E+01	1.5E+00	2.0E+01
Minimum	7.5E-05	0.0E+00	8.8E-04	1.3E-05	1.4E-02	1.6E-03	2.8E-02
Average	5.1E-02	2.8E-03	8.9E-04	7.3E-03	2.2E-01	3.8E-02	3.2E-01

**Data 6-5 (1) Exposure Risk of Heavy Metals in Soil
Characterised by Land-use**

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(1)

(E: Exponent)

400m Grid No.	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS A 13	0	1	0	0	99	0.0E+00	4.4E-04	0.0E+00	0.0E+00	4.4E-02	4.5E-02
SS A 14	0	45	0	0	55	0.0E+00	1.3E-02	0.0E+00	0.0E+00	2.5E-02	3.8E-02
SS A 15	0	19	0	0	81	0.0E+00	5.4E-03	0.0E+00	0.0E+00	3.4E-02	3.9E-02
SS A 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-02	4.6E-02
SS A 17	0	41	0	0	59	0.0E+00	1.1E-02	0.0E+00	0.0E+00	2.4E-02	3.5E-02
SS A 18	0	3	0	0	97	0.0E+00	1.1E-03	0.0E+00	0.0E+00	5.1E-02	5.2E-02
SS A 19	0	15	0	0	85	0.0E+00	4.3E-03	0.0E+00	0.0E+00	3.6E-02	4.0E-02
SS A 20	0	92	0	0	8	0.0E+00	2.4E-02	0.0E+00	0.0E+00	3.2E-03	2.7E-02
SS A 21	0	72	0	0	28	0.0E+00	1.9E-02	0.0E+00	0.0E+00	1.1E-02	3.1E-02
SS A 22	0	49	0	0	51	0.0E+00	1.4E-02	0.0E+00	0.0E+00	2.2E-02	3.5E-02
SS A 23	0	79	0	0	21	0.0E+00	1.8E-02	0.0E+00	0.0E+00	7.2E-03	2.5E-02
SS A 24	0	94	0	0	6	0.0E+00	3.2E-02	0.0E+00	0.0E+00	2.9E-03	3.5E-02
SS A 25	0	41	0	0	59	0.0E+00	1.4E-02	0.0E+00	0.0E+00	3.0E-02	4.4E-02
SS B 12	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.9E-02	5.9E-02
SS B 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.3E-02	6.3E-02
SS B 14	0	47	0	0	53	0.0E+00	1.4E-02	0.0E+00	0.0E+00	2.4E-02	3.8E-02
SS B 15	0	48	0	0	52	0.0E+00	1.4E-02	0.0E+00	0.0E+00	2.2E-02	3.6E-02
SS B 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.4E-02	3.4E-02
SS B 17	0	33	0	0	67	0.0E+00	9.2E-03	0.0E+00	0.0E+00	2.7E-02	3.7E-02
SS B 18	0	23	0	0	77	0.0E+00	7.6E-03	0.0E+00	0.0E+00	3.9E-02	4.6E-02
SS B 19	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-02	5.0E-02
SS B 20	0	76	0	0	24	0.0E+00	2.2E-02	0.0E+00	0.0E+00	1.0E-02	3.2E-02
SS B 21	0	72	0	0	28	0.0E+00	1.9E-02	0.0E+00	0.0E+00	1.1E-02	3.1E-02
SS B 22	0	79	0	0	21	0.0E+00	2.4E-02	0.0E+00	0.0E+00	9.3E-03	3.3E-02
SS B 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.3E-02	4.3E-02
SS B 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.4E-02	3.4E-02
SS B 25	0	78	0	0	22	0.0E+00	1.9E-02	0.0E+00	0.0E+00	8.1E-03	2.7E-02
SS C 11	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.3E-02	4.3E-02
SS C 12	0	0	0	0	100	0.0E+00	1.1E-04	0.0E+00	0.0E+00	4.6E-02	4.6E-02
SS C 13	0	21	0	0	79	0.0E+00	6.0E-03	0.0E+00	0.0E+00	3.3E-02	3.9E-02
SS C 14	0	64	0	0	36	0.0E+00	1.8E-02	0.0E+00	0.0E+00	1.5E-02	3.3E-02
SS C 15	0	63	0	0	37	0.0E+00	2.2E-02	0.0E+00	0.0E+00	1.9E-02	4.2E-02
SS C 16	0	54	0	0	46	0.0E+00	1.5E-02	0.0E+00	0.0E+00	1.9E-02	3.4E-02
SS C 17	0	35	0	0	65	0.0E+00	1.1E-02	0.0E+00	0.0E+00	3.0E-02	4.1E-02
SS C 18	0	12	0	0	87	0.0E+00	4.3E-03	7.9E-05	0.0E+00	4.5E-02	5.0E-02
SS C 19	0	5	0	0	95	0.0E+00	1.6E-03	0.0E+00	0.0E+00	5.0E-02	5.2E-02
SS C 20	0	56	0	0	44	0.0E+00	1.9E-02	0.0E+00	0.0E+00	2.2E-02	4.1E-02
SS C 21	0	45	0	0	55	0.0E+00	1.6E-02	0.0E+00	0.0E+00	2.9E-02	4.5E-02
SS C 22	0	93	0	0	7	0.0E+00	2.9E-02	0.0E+00	0.0E+00	3.1E-03	3.2E-02
SS C 23	0	67	0	0	33	0.0E+00	6.3E-03	0.0E+00	0.0E+00	4.7E-03	1.1E-02
SS C 24	0	38	0	0	62	0.0E+00	7.4E-03	0.0E+00	0.0E+00	1.8E-02	2.5E-02
SS C 25	0	8	0	0	92	0.0E+00	1.7E-03	0.0E+00	0.0E+00	3.0E-02	3.2E-02
SS D 10	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.4E-02	4.4E-02
SS D 11	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.3E-02	5.3E-02
SS D 12	0	42	0	0	58	0.0E+00	1.1E-02	0.0E+00	0.0E+00	2.2E-02	3.3E-02
SS D 13	0	91	0	0	9	0.0E+00	2.5E-02	0.0E+00	0.0E+00	3.9E-03	2.9E-02
SS D 14	0	35	0	0	65	0.0E+00	1.1E-02	0.0E+00	0.0E+00	3.0E-02	4.1E-02
SS D 15	0	59	0	0	41	0.0E+00	1.6E-02	0.0E+00	0.0E+00	1.7E-02	3.4E-02
SS D 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-02	4.6E-02
SS D 17	0	70	0	0	30	0.0E+00	2.1E-02	0.0E+00	0.0E+00	1.4E-02	3.5E-02
SS D 18	4	58	3	0	34	3.9E-03	1.7E-02	1.3E-03	0.0E+00	1.5E-02	3.8E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(2)

(E: Exponent)

400m Grid No.	Land-use					Risk Characterised by Land-use					
	Heavy Metals	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS D 19	5	54	1	0	39	5.5E-03	1.8E-02	3.4E-04	0.0E+00	2.0E-02	4.4E-02
SS D 20	0	19	0	0	81	0.0E+00	4.2E-03	0.0E+00	0.0E+00	2.7E-02	3.1E-02
SS D 21	0	25	0	0	75	0.0E+00	5.4E-03	0.0E+00	0.0E+00	2.5E-02	3.0E-02
SS D 22	0	6	0	0	94	0.0E+00	1.4E-03	0.0E+00	0.0E+00	3.2E-02	3.4E-02
SS D 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.3E-02	5.3E-02
SS D 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.9E-02	7.9E-02
SS D 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.4E-02	6.4E-02
SS E 9	0	3	0	0	97	0.0E+00	6.2E-04	0.0E+00	0.0E+00	3.4E-02	3.5E-02
SS E 10	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.5E-02	6.5E-02
SS E 11	0	34	0	0	66	0.0E+00	1.2E-02	0.0E+00	0.0E+00	3.6E-02	4.8E-02
SS E 12	0	76	0	0	24	0.0E+00	2.6E-02	0.0E+00	0.0E+00	1.2E-02	3.8E-02
SS E 13	0	73	0	0	27	0.0E+00	3.9E-02	0.0E+00	0.0E+00	2.1E-02	6.0E-02
SS E 14	0	80	0	0	20	0.0E+00	3.0E-02	0.0E+00	0.0E+00	1.1E-02	4.1E-02
SS E 15	0	83	0	0	17	0.0E+00	2.3E-02	0.0E+00	0.0E+00	7.3E-03	3.0E-02
SS E 16	0	100	0	0	0	0.0E+00	2.0E-02	0.0E+00	0.0E+00	2.5E-05	2.0E-02
SS E 17	0	75	0	0	25	0.0E+00	1.7E-02	0.0E+00	0.0E+00	8.5E-03	2.6E-02
SS E 18	11	13	0	0	76	1.1E-02	4.5E-03	0.0E+00	0.0E+00	3.9E-02	5.5E-02
SS E 19	15	23	0	0	61	1.6E-02	8.1E-03	0.0E+00	0.0E+00	3.2E-02	5.7E-02
SS E 20	0	11	0	0	89	0.0E+00	3.0E-03	0.0E+00	0.0E+00	3.5E-02	3.8E-02
SS E 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS E 22	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.2E-02	5.2E-02
SS E 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.6E-02	7.6E-02
SS E 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-01	1.4E-01
SS E 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.8E-02	4.8E-02
SS F 9	0	0	0	0	100	0.0E+00	4.4E-07	0.0E+00	0.0E+00	5.2E-02	5.2E-02
SS F 10	0	8	0	0	92	0.0E+00	1.8E-03	0.0E+00	0.0E+00	3.3E-02	3.5E-02
SS F 11	0	65	0	0	35	0.0E+00	1.9E-02	0.0E+00	0.0E+00	1.6E-02	3.5E-02
SS F 12	0	48	0	0	52	0.0E+00	1.7E-02	0.0E+00	0.0E+00	2.7E-02	4.4E-02
SS F 13	0	19	0	0	81	0.0E+00	6.2E-03	0.0E+00	0.0E+00	3.9E-02	4.5E-02
SS F 14	0	100	0	0	0	0.0E+00	2.3E-02	0.0E+00	0.0E+00	4.8E-05	2.3E-02
SS F 15	0	95	0	0	5	0.0E+00	2.8E-02	0.0E+00	0.0E+00	2.2E-03	3.0E-02
SS F 16	0	81	0	0	19	0.0E+00	1.9E-02	0.0E+00	0.0E+00	6.6E-03	2.5E-02
SS F 17	0	41	0	0	59	0.0E+00	1.4E-02	0.0E+00	0.0E+00	3.1E-02	4.6E-02
SS F 18	0	34	0	0	66	0.0E+00	1.2E-02	0.0E+00	0.0E+00	3.6E-02	4.8E-02
SS F 19	0	33	0	0	67	0.0E+00	9.2E-03	0.0E+00	0.0E+00	2.8E-02	3.7E-02
SS F 20	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.7E-02	4.7E-02
SS F 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.0E-02	7.0E-02
SS F 22	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.2E-01	2.2E-01
SS F 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-02	5.0E-02
SS F 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.7E-02	3.7E-02
SS F 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.3E-02	4.3E-02
SS G 9	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.5E-02	5.5E-02
SS G 10	0	3	0	0	97	0.0E+00	8.8E-04	0.0E+00	0.0E+00	4.1E-02	4.2E-02
SS G 11	0	53	0	0	47	0.0E+00	1.9E-02	0.0E+00	0.0E+00	2.6E-02	4.5E-02
SS G 12	0	29	0	0	71	0.0E+00	8.8E-03	0.0E+00	0.0E+00	3.2E-02	4.1E-02
SS G 13	0	31	0	0	69	0.0E+00	8.7E-03	0.0E+00	0.0E+00	2.9E-02	3.8E-02
SS G 14	0	81	0	0	19	0.0E+00	2.2E-02	0.0E+00	0.0E+00	7.7E-03	3.0E-02
SS G 15	0	81	0	0	19	0.0E+00	2.5E-02	0.0E+00	0.0E+00	8.7E-03	3.3E-02
SS G 16	0	39	3	0	57	0.0E+00	1.1E-02	1.4E-03	0.0E+00	2.4E-02	3.6E-02
SS G 17	0	10	3	0	86	0.0E+00	2.8E-03	1.3E-03	0.0E+00	3.4E-02	3.8E-02
SS G 18	20	13	0	0	67	2.1E-02	4.6E-03	0.0E+00	0.0E+00	3.5E-02	6.1E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(3)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS G 19	0	6	0	0	94	0.0E+00	3.0E-03	0.0E+00	0.0E+00	7.4E-02	7.7E-02
SS G 20	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.2E-02	9.2E-02
SS G 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-01	1.1E-01
SS G 22	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.1E-02	4.1E-02
SS G 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-02	3.0E-02
SS G 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS G 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.7E-02	3.7E-02
SS G 26	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.3E-02	4.3E-02
SS G 27	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-02	5.0E-02
SS G 28	0	87	0	0	13	0.0E+00	3.4E-02	0.0E+00	0.0E+00	7.5E-03	4.2E-02
SS G 29	0	100	0	0	0	0.0E+00	4.0E-02	0.0E+00	0.0E+00	0.0E+00	4.0E-02
SS G 30	0	100	0	0	0	0.0E+00	3.7E-02	0.0E+00	0.0E+00	0.0E+00	3.7E-02
SS G 31	0	64	0	0	36	0.0E+00	2.6E-02	0.0E+00	0.0E+00	2.2E-02	4.8E-02
SS G 32	0	38	0	0	62	0.0E+00	1.9E-02	0.0E+00	0.0E+00	4.7E-02	6.6E-02
SS G 33	0	1	12	0	88	0.0E+00	2.3E-04	7.4E-03	0.0E+00	5.4E-02	6.2E-02
SS G 34	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.3E-02	7.3E-02
SS G 35	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.8E-02	6.8E-02
SS G 36	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.3E-02	7.3E-02
SS H 9	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.9E-02	3.9E-02
SS H 10	0	38	0	0	62	0.0E+00	1.3E-02	0.0E+00	0.0E+00	3.2E-02	4.5E-02
SS H 11	0	67	0	0	33	0.0E+00	2.0E-02	0.0E+00	0.0E+00	1.5E-02	3.5E-02
SS H 12	0	59	0	0	41	0.0E+00	1.7E-02	0.0E+00	0.0E+00	1.7E-02	3.4E-02
SS H 13	0	79	0	0	21	0.0E+00	2.4E-02	0.0E+00	0.0E+00	9.8E-03	3.4E-02
SS H 14	0	78	0	0	22	0.0E+00	2.0E-02	0.0E+00	0.0E+00	8.3E-03	2.8E-02
SS H 15	0	75	0	0	25	0.0E+00	2.9E-02	0.0E+00	0.0E+00	1.4E-02	4.3E-02
SS H 16	0	23	0	0	77	0.0E+00	5.7E-03	0.0E+00	0.0E+00	2.9E-02	3.5E-02
SS H 17	0	37	0	0	63	0.0E+00	1.0E-02	0.0E+00	0.0E+00	2.6E-02	3.6E-02
SS H 18	9	5	0	0	85	7.3E-03	1.4E-03	0.0E+00	0.0E+00	3.4E-02	4.2E-02
SS H 19	0	0	0	0	100	5.0E-05	8.5E-07	0.0E+00	0.0E+00	4.2E-02	4.2E-02
SS H 20	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.6E-02	7.6E-02
SS H 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.9E-02	4.9E-02
SS H 22	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.7E-02	4.7E-02
SS H 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.1E-02	5.1E-02
SS H 24	4	0	0	0	96	3.3E-03	0.0E+00	0.0E+00	0.0E+00	3.8E-02	4.2E-02
SS H 25	36	0	0	0	64	2.9E-02	0.0E+00	0.0E+00	0.0E+00	2.6E-02	5.6E-02
SS H 26	0	0	0	0	100	0.0E+00	2.2E-05	0.0E+00	0.0E+00	4.2E-02	4.2E-02
SS H 27	0	15	0	0	85	0.0E+00	4.0E-03	0.0E+00	0.0E+00	3.3E-02	3.7E-02
SS H 28	0	100	0	0	0	0.0E+00	3.9E-02	0.0E+00	0.0E+00	0.0E+00	3.9E-02
SS H 29	0	100	0	0	0	0.0E+00	3.9E-02	0.0E+00	0.0E+00	0.0E+00	3.9E-02
SS H 30	0	88	0	0	12	0.0E+00	3.3E-02	0.0E+00	0.0E+00	6.7E-03	4.0E-02
SS H 31	0	28	0	0	72	0.0E+00	1.3E-02	0.0E+00	0.0E+00	5.1E-02	6.4E-02
SS H 32	0	0	0	0	100	0.0E+00	7.9E-05	0.0E+00	0.0E+00	6.0E-02	6.0E-02
SS H 33	0	0	40	0	60	0.0E+00	2.5E-06	1.9E-02	0.0E+00	2.9E-02	4.8E-02
SS H 34	0	6	3	0	91	0.0E+00	3.6E-03	2.1E-03	0.0E+00	7.6E-02	8.2E-02
SS H 35	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.6E-02	5.6E-02
SS H 36	0	9	0	0	91	0.0E+00	3.7E-03	0.0E+00	0.0E+00	5.8E-02	6.1E-02
SS I 8	23	8	0	0	69	2.6E-02	3.0E-03	0.0E+00	0.0E+00	3.9E-02	6.8E-02
SS I 9	0	25	0	0	75	0.0E+00	8.3E-03	0.0E+00	0.0E+00	3.8E-02	4.7E-02
SS I 10	0	88	1	0	10	0.0E+00	3.0E-02	6.8E-04	0.0E+00	5.2E-03	3.6E-02
SS I 11	0	81	0	0	19	0.0E+00	2.2E-02	0.0E+00	0.0E+00	7.6E-03	3.0E-02
SS I 12	0	94	0	0	6	0.0E+00	3.0E-02	0.0E+00	0.0E+00	2.7E-03	3.3E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(4)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS I 13	0	87	0	0	13	0.0E+00	2.5E-02	0.0E+00	0.0E+00	5.4E-03	3.0E-02
SS I 14	0	38	0	0	62	0.0E+00	9.9E-03	0.0E+00	0.0E+00	2.4E-02	3.4E-02
SS I 15	0	42	0	0	58	0.0E+00	1.1E-02	0.0E+00	0.0E+00	2.4E-02	3.5E-02
SS I 16	0	1	0	0	99	0.0E+00	2.9E-04	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS I 17	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.1E-02	4.1E-02
SS I 18	0	8	0	0	92	0.0E+00	1.9E-03	0.0E+00	0.0E+00	3.3E-02	3.4E-02
SS I 19	0	16	0	0	84	0.0E+00	4.0E-03	0.0E+00	0.0E+00	3.1E-02	3.5E-02
SS I 20	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.1E-02	4.1E-02
SS I 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS I 22	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.4E-02	4.4E-02
SS I 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.3E-02	3.3E-02
SS I 24	0	2	0	0	98	0.0E+00	3.8E-04	0.0E+00	0.0E+00	2.5E-02	2.5E-02
SS I 25	0	57	0	0	43	0.0E+00	1.4E-02	0.0E+00	0.0E+00	1.6E-02	3.0E-02
SS I 26	0	45	0	0	55	0.0E+00	1.2E-02	0.0E+00	0.0E+00	2.2E-02	3.4E-02
SS I 27	0	59	0	0	41	0.0E+00	2.1E-02	0.0E+00	0.0E+00	2.2E-02	4.3E-02
SS I 28	0	89	0	0	11	0.0E+00	3.5E-02	0.0E+00	0.0E+00	6.4E-03	4.1E-02
SS I 29	0	95	0	0	5	0.0E+00	4.0E-02	0.0E+00	0.0E+00	3.0E-03	4.3E-02
SS I 30	0	24	0	0	76	0.0E+00	9.9E-03	0.0E+00	0.0E+00	4.7E-02	5.7E-02
SS I 31	0	2	0	0	98	0.0E+00	9.9E-04	0.0E+00	0.0E+00	7.3E-02	7.4E-02
SS I 32	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-02	5.0E-02
SS I 33	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.3E-02	6.3E-02
SS I 34	0	0	0	0	100	0.0E+00	8.8E-05	0.0E+00	0.0E+00	4.3E-02	4.3E-02
SS I 35	0	50	4	0	46	0.0E+00	1.7E-02	2.0E-03	0.0E+00	2.3E-02	4.2E-02
SS I 36	0	47	3	0	50	0.0E+00	1.8E-02	1.9E-03	0.0E+00	2.9E-02	4.9E-02
SS J 7	0	4	0	0	96	0.0E+00	9.9E-04	0.0E+00	0.0E+00	3.9E-02	4.0E-02
SS J 8	5	62	0	0	34	3.3E-03	1.4E-02	0.0E+00	0.0E+00	1.2E-02	2.9E-02
SS J 9	0	95	0	0	5	0.0E+00	3.7E-02	0.0E+00	0.0E+00	2.8E-03	4.0E-02
SS J 10	0	35	0	0	65	0.0E+00	1.1E-02	0.0E+00	0.0E+00	2.9E-02	4.0E-02
SS J 11	0	50	0	0	50	0.0E+00	1.7E-02	0.0E+00	0.0E+00	2.5E-02	4.2E-02
SS J 12	0	94	0	0	6	0.0E+00	3.0E-02	0.0E+00	0.0E+00	2.7E-03	3.3E-02
SS J 13	0	68	0	0	32	0.0E+00	1.9E-02	0.0E+00	0.0E+00	1.4E-02	3.2E-02
SS J 14	0	0	0	0	100	0.0E+00	9.5E-05	0.0E+00	0.0E+00	3.7E-02	3.7E-02
SS J 15	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.5E-02	3.5E-02
SS J 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.7E-02	3.7E-02
SS J 17	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.1E-02	3.1E-02
SS J 18	0	4	0	0	96	0.0E+00	6.2E-04	0.0E+00	0.0E+00	2.4E-02	2.4E-02
SS J 19	0	3	0	0	97	0.0E+00	8.0E-04	0.0E+00	0.0E+00	3.9E-02	4.0E-02
SS J 20	0	37	0	0	63	0.0E+00	8.6E-03	0.0E+00	0.0E+00	2.2E-02	3.1E-02
SS J 21	0	6	0	0	94	0.0E+00	1.5E-03	0.0E+00	0.0E+00	3.7E-02	3.9E-02
SS J 22	0	2	0	0	98	0.0E+00	3.7E-04	0.0E+00	0.0E+00	2.9E-02	2.9E-02
SS J 23	0	26	0	0	74	0.0E+00	4.5E-03	0.0E+00	0.0E+00	1.9E-02	2.4E-02
SS J 24	0	65	2	0	33	0.0E+00	1.3E-02	5.4E-04	0.0E+00	1.0E-02	2.4E-02
SS J 25	0	89	2	0	9	0.0E+00	2.5E-02	7.8E-04	0.0E+00	4.1E-03	3.0E-02
SS J 26	0	82	0	0	18	0.0E+00	2.6E-02	0.0E+00	0.0E+00	8.8E-03	3.5E-02
SS J 27	0	100	0	0	0	0.0E+00	3.7E-02	0.0E+00	0.0E+00	0.0E+00	3.7E-02
SS J 28	0	87	0	0	13	0.0E+00	3.2E-02	0.0E+00	0.0E+00	7.2E-03	3.9E-02
SS J 29	24	52	0	0	24	2.5E-02	1.8E-02	0.0E+00	0.0E+00	1.3E-02	5.6E-02
SS J 30	13	19	0	0	68	1.3E-02	6.4E-03	0.0E+00	0.0E+00	3.5E-02	5.5E-02
SS J 31	0	1	0	0	99	0.0E+00	5.2E-03	0.0E+00	0.0E+00	5.2E-01	5.3E-01
SS J 32	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.5E-02	5.5E-02
SS J 33	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-02	4.6E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(5)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS J 34	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.0E-02	6.0E-02
SS J 35	0	1	12	0	88	0.0E+00	3.0E-04	6.7E-03	0.0E+00	5.1E-02	5.8E-02
SS J 36	15	19	0	0	65	1.8E-02	7.5E-03	0.0E+00	0.0E+00	3.8E-02	6.3E-02
SS K 06	0	0	0	0	100	0.0E+00	6.3E-07	0.0E+00	0.0E+00	2.8E-02	2.8E-02
SS K 07	0	36	0	0	64	0.0E+00	7.2E-03	0.0E+00	0.0E+00	1.9E-02	2.6E-02
SS K 08	0	63	0	0	37	0.0E+00	2.0E-02	0.0E+00	0.0E+00	1.8E-02	3.8E-02
SS K 09	0	97	0	0	3	0.0E+00	2.7E-02	0.0E+00	0.0E+00	1.4E-03	2.9E-02
SS K 10	0	55	2	0	43	0.0E+00	1.5E-02	6.9E-04	0.0E+00	1.7E-02	3.3E-02
SS K 11	0	95	0	0	5	0.0E+00	2.7E-02	0.0E+00	0.0E+00	2.2E-03	2.9E-02
SS K 12	0	90	0	0	10	0.0E+00	2.4E-02	0.0E+00	0.0E+00	3.9E-03	2.8E-02
SS K 13	0	23	0	0	77	0.0E+00	4.9E-03	0.0E+00	0.0E+00	2.5E-02	3.0E-02
SS K 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.8E-02	2.8E-02
SS K 15	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-02	2.3E-02
SS K 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.4E-02	5.4E-02
SS K 17	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-02	3.0E-02
SS K 18	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.1E-02	5.1E-02
SS K 19	0	45	0	0	55	0.0E+00	7.4E-03	0.0E+00	0.0E+00	1.4E-02	2.1E-02
SS K 20	0	98	0	0	2	0.0E+00	1.5E-02	0.0E+00	0.0E+00	5.4E-04	1.6E-02
SS K 21	2	64	0	0	34	7.4E-04	8.9E-03	0.0E+00	0.0E+00	7.2E-03	1.7E-02
SS K 22	41	45	0	0	14	2.4E-02	8.6E-03	0.0E+00	0.0E+00	4.0E-03	3.6E-02
SS K 23	0	100	0	0	0	0.0E+00	2.1E-02	0.0E+00	0.0E+00	0.0E+00	2.1E-02
SS K 24	0	99	0	0	1	0.0E+00	2.1E-02	0.0E+00	0.0E+00	1.8E-04	2.1E-02
SS K 25	0	84	0	0	16	0.0E+00	1.9E-02	0.0E+00	0.0E+00	5.6E-03	2.4E-02
SS K 26	0	78	0	0	22	0.0E+00	2.1E-02	0.0E+00	0.0E+00	9.3E-03	3.1E-02
SS K 27	0	100	0	0	0	0.0E+00	2.8E-02	0.0E+00	0.0E+00	0.0E+00	2.8E-02
SS K 28	0	73	0	0	27	0.0E+00	2.2E-02	0.0E+00	0.0E+00	1.2E-02	3.4E-02
SS K 29	30	36	0	0	34	2.8E-02	1.1E-02	0.0E+00	0.0E+00	1.6E-02	5.6E-02
SS K 30	0	1	0	0	99	0.0E+00	5.0E-04	0.0E+00	0.0E+00	1.5E-01	1.5E-01
SS K 31	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.1E-02	5.1E-02
SS K 32	0	0	1	0	99	0.0E+00	0.0E+00	5.2E-04	0.0E+00	3.6E-02	3.7E-02
SS K 33	0	0	59	0	41	0.0E+00	0.0E+00	2.8E-02	0.0E+00	1.9E-02	4.7E-02
SS K 34	0	0	30	0	70	0.0E+00	0.0E+00	2.0E-02	0.0E+00	4.7E-02	6.7E-02
SS K 35	11	0	7	0	83	1.1E-02	0.0E+00	3.5E-03	0.0E+00	4.2E-02	5.6E-02
SS K 36	76	0	0	0	24	1.6E-01	0.0E+00	0.0E+00	0.0E+00	2.5E-02	1.9E-01
SS L 05	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.1E-02	3.1E-02
SS L 06	0	14	0	0	86	0.0E+00	2.4E-03	0.0E+00	0.0E+00	2.2E-02	2.5E-02
SS L 07	0	99	0	0	1	0.0E+00	2.8E-02	0.0E+00	0.0E+00	2.5E-04	2.9E-02
SS L 08	0	80	0	0	20	0.0E+00	2.2E-02	0.0E+00	0.0E+00	8.2E-03	3.0E-02
SS L 09	0	100	0	0	0	0.0E+00	2.7E-02	0.0E+00	0.0E+00	0.0E+00	2.7E-02
SS L 10	0	96	0	0	4	0.0E+00	2.4E-02	0.0E+00	0.0E+00	1.5E-03	2.5E-02
SS L 11	0	87	0	0	13	0.0E+00	2.0E-02	0.0E+00	0.0E+00	4.5E-03	2.5E-02
SS L 12	0	2	0	0	98	0.0E+00	4.9E-04	0.0E+00	0.0E+00	3.1E-02	3.2E-02
SS L 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.6E-02	2.6E-02
SS L 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.6E-02	2.6E-02
SS L 15	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.4E-02	3.4E-02
SS L 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.0E-02	2.0E-02
SS L 17	0	27	0	0	73	0.0E+00	5.9E-03	0.0E+00	0.0E+00	2.4E-02	3.0E-02
SS L 18	0	100	0	0	0	0.0E+00	2.0E-02	0.0E+00	0.0E+00	0.0E+00	2.0E-02
SS L 19	0	100	0	0	0	0.0E+00	1.8E-02	0.0E+00	0.0E+00	0.0E+00	1.8E-02
SS L 20	0	97	0	0	3	0.0E+00	2.0E-02	0.0E+00	0.0E+00	9.0E-04	2.1E-02
SS L 21	0	92	0	0	8	0.0E+00	5.2E-02	0.0E+00	0.0E+00	7.2E-03	5.9E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(6)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS L 22	0	83	0	0	17	0.0E+00	1.8E-02	0.0E+00	0.0E+00	5.8E-03	2.4E-02
SS L 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.6E-02	3.6E-02
SS L 24	0	98	0	0	2	0.0E+00	2.2E-02	0.0E+00	0.0E+00	5.3E-04	2.3E-02
SS L 25	0	82	0	0	18	0.0E+00	2.1E-02	0.0E+00	0.0E+00	6.6E-03	2.7E-02
SS L 26	0	99	0	0	1	0.0E+00	3.5E-02	0.0E+00	0.0E+00	6.6E-04	3.6E-02
SS L 27	0	63	0	0	37	0.0E+00	2.1E-02	0.0E+00	0.0E+00	1.9E-02	4.0E-02
SS L 28	0	12	0	8	80	0.0E+00	3.3E-03	0.0E+00	3.2E-03	3.3E-02	3.9E-02
SS L 29	0	26	0	0	74	0.0E+00	6.8E-02	0.0E+00	0.0E+00	2.9E-01	3.6E-01
SS L 30	0	4	0	0	96	0.0E+00	9.0E-04	0.0E+00	0.0E+00	3.3E-02	3.4E-02
SS L 31	0	0	1	0	99	0.0E+00	0.0E+00	7.2E-04	0.0E+00	7.0E-02	7.1E-02
SS L 32	0	20	20	0	60	0.0E+00	5.3E-03	8.1E-03	0.0E+00	2.4E-02	3.8E-02
SS L 33	0	6	40	0	54	0.0E+00	1.9E-03	2.0E-02	0.0E+00	2.8E-02	5.0E-02
SS L 34	0	5	43	0	52	0.0E+00	1.5E-03	2.0E-02	0.0E+00	2.5E-02	4.6E-02
SS L 35	57	18	3	0	22	3.4E-01	3.6E-02	8.4E-03	0.0E+00	6.6E-02	4.5E-01
SS L 36	47	0	0	0	53	5.8E-02	0.0E+00	0.0E+00	0.0E+00	3.3E-02	9.1E-02
SS M 04	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-02	3.0E-02
SS M 05	0	15	0	0	85	2.0E-05	3.0E-03	0.0E+00	0.0E+00	2.6E-02	2.9E-02
SS M 06	0	41	0	0	59	0.0E+00	1.2E-02	0.0E+00	0.0E+00	2.5E-02	3.7E-02
SS M 07	0	82	0	0	18	0.0E+00	2.0E-02	0.0E+00	0.0E+00	6.8E-03	2.7E-02
SS M 08	0	90	2	0	8	0.0E+00	2.8E-02	7.6E-04	0.0E+00	3.6E-03	3.2E-02
SS M 09	0	87	0	0	13	0.0E+00	2.6E-02	1.6E-04	0.0E+00	5.7E-03	3.2E-02
SS M 10	0	95	4	0	1	0.0E+00	2.7E-02	1.8E-03	0.0E+00	4.2E-04	2.9E-02
SS M 11	0	82	0	0	18	0.0E+00	1.5E-02	0.0E+00	0.0E+00	4.9E-03	1.9E-02
SS M 12	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.6E-02	3.6E-02
SS M 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.1E-02	3.1E-02
SS M 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.1E-02	3.1E-02
SS M 15	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.9E-02	2.9E-02
SS M 16	0	18	0	0	82	0.0E+00	3.2E-03	0.0E+00	0.0E+00	2.2E-02	2.5E-02
SS M 17	0	100	0	0	0	0.0E+00	1.7E-02	0.0E+00	0.0E+00	4.8E-05	1.7E-02
SS M 18	0	96	0	0	4	0.0E+00	2.0E-02	0.0E+00	0.0E+00	1.1E-03	2.1E-02
SS M 19	0	99	0	0	1	0.0E+00	1.6E-02	0.0E+00	0.0E+00	3.1E-04	1.7E-02
SS M 20	0	100	0	0	0	0.0E+00	2.0E-02	0.0E+00	0.0E+00	0.0E+00	2.0E-02
SS M 21	0	93	0	0	7	0.0E+00	2.3E-02	0.0E+00	0.0E+00	2.6E-03	2.6E-02
SS M 22	0	75	0	0	25	0.0E+00	2.0E-02	0.0E+00	0.0E+00	9.8E-03	3.0E-02
SS M 23	0	99	1	0	0	0.0E+00	2.5E-02	4.5E-04	0.0E+00	0.0E+00	2.5E-02
SS M 24	0	100	0	0	0	0.0E+00	2.4E-02	0.0E+00	0.0E+00	7.6E-05	2.4E-02
SS M 25	0	74	0	0	26	0.0E+00	3.8E-02	0.0E+00	0.0E+00	2.0E-02	5.8E-02
SS M 26	0	19	0	0	81	0.0E+00	5.2E-03	0.0E+00	0.0E+00	3.3E-02	3.8E-02
SS M 27	0	8	0	6	87	0.0E+00	2.6E-03	0.0E+00	2.8E-03	4.3E-02	4.9E-02
SS M 28	0	6	0	49	46	0.0E+00	1.0E-02	0.0E+00	1.3E-01	1.3E-01	2.7E-01
SS M 29	0	42	3	0	55	0.0E+00	1.1E-01	1.1E-02	0.0E+00	2.1E-01	3.2E-01
SS M 30	0	14	0	0	86	0.0E+00	2.9E-03	0.0E+00	0.0E+00	2.6E-02	2.9E-02
SS M 31	0	0	1	0	99	0.0E+00	0.0E+00	1.0E-03	0.0E+00	7.9E-02	8.0E-02
SS M 32	0	5	0	0	95	0.0E+00	3.6E-03	4.1E-04	5.6E-06	1.0E-01	1.1E-01
SS M 33	7	5	4	19	66	3.7E-02	8.2E-03	9.6E-03	4.9E-02	1.7E-01	2.8E-01
SS M 34	57	0	0	0	43	3.3E+00	0.0E+00	7.6E-03	0.0E+00	1.2E+00	4.5E+00
SS M 35	90	0	0	0	10	1.8E+01	0.0E+00	0.0E+00	0.0E+00	1.0E+00	1.9E+01
SS M 36	34	0	0	0	66	4.0E-02	0.0E+00	0.0E+00	0.0E+00	3.8E-02	7.8E-02
SS N 03	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.9E-02	4.9E-02
SS N 04	0	4	0	0	96	0.0E+00	2.4E-03	0.0E+00	0.0E+00	8.0E-02	8.2E-02
SS N 05	24	23	0	0	53	1.8E-02	5.6E-03	0.0E+00	0.0E+00	2.0E-02	4.4E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(7)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS N 06	0	75	2	0	23	0.0E+00	1.7E-02	6.6E-04	0.0E+00	7.8E-03	2.5E-02
SS N 07	0	72	7	0	21	0.0E+00	1.9E-02	2.6E-03	0.0E+00	8.3E-03	2.9E-02
SS N 08	0	93	1	0	6	0.0E+00	3.1E-02	7.3E-04	0.0E+00	2.9E-03	3.4E-02
SS N 09	0	100	0	0	0	0.0E+00	3.3E-02	0.0E+00	0.0E+00	0.0E+00	3.3E-02
SS N 10	0	100	0	0	0	0.0E+00	2.1E-02	0.0E+00	0.0E+00	0.0E+00	2.1E-02
SS N 11	0	82	0	0	18	2.8E-04	1.7E-02	0.0E+00	0.0E+00	5.5E-03	2.3E-02
SS N 12	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.2E-02	3.2E-02
SS N 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.5E-02	3.5E-02
SS N 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-02	2.7E-02
SS N 15	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.5E-02	2.5E-02
SS N 16	0	32	0	0	68	0.0E+00	6.3E-03	0.0E+00	0.0E+00	2.0E-02	2.6E-02
SS N 17	0	86	0	0	14	0.0E+00	2.7E-02	0.0E+00	0.0E+00	6.7E-03	3.4E-02
SS N 18	0	95	0	0	5	0.0E+00	2.4E-02	0.0E+00	0.0E+00	2.1E-03	2.6E-02
SS N 19	0	100	0	0	0	0.0E+00	2.4E-02	0.0E+00	0.0E+00	0.0E+00	2.4E-02
SS N 20	0	94	0	0	6	0.0E+00	3.7E-02	0.0E+00	0.0E+00	3.7E-03	4.1E-02
SS N 21	0	82	0	0	18	0.0E+00	2.9E-02	0.0E+00	0.0E+00	9.6E-03	3.9E-02
SS N 22	0	89	0	0	11	0.0E+00	3.4E-02	0.0E+00	0.0E+00	6.5E-03	4.1E-02
SS N 23	0	60	1	0	39	0.0E+00	6.4E-02	2.2E-03	0.0E+00	6.1E-02	1.3E-01
SS N 24	0	17	0	0	83	0.0E+00	1.0E-01	0.0E+00	0.0E+00	7.5E-01	8.5E-01
SS N 25	0	0	0	10	90	0.0E+00	0.0E+00	0.0E+00	9.9E-02	8.7E-01	9.7E-01
SS N 26	0	0	0	60	40	0.0E+00	0.0E+00	0.0E+00	1.2E+00	8.1E-01	2.0E+00
SS N 27	0	0	0	35	65	0.0E+00	0.0E+00	0.0E+00	8.6E-01	1.6E+00	2.5E+00
SS N 28	0	12	0	23	65	0.0E+00	1.3E-01	1.6E-04	3.9E-01	1.1E+00	1.6E+00
SS N 29	0	39	13	0	47	0.0E+00	2.3E-02	1.1E-02	0.0E+00	4.1E-02	7.5E-02
SS N 30	0	0	3	77	20	0.0E+00	0.0E+00	7.0E-02	1.7E+00	4.3E-01	2.2E+00
SS N 31	0	0	0	95	5	0.0E+00	0.0E+00	0.0E+00	2.5E+00	1.4E-01	2.6E+00
SS N 32	1	0	0	80	18	9.4E-02	0.0E+00	0.0E+00	2.8E+00	6.3E-01	3.5E+00
SS N 33	41	0	0	40	19	2.1E+00	0.0E+00	0.0E+00	1.0E+00	5.0E-01	3.7E+00
SS N 34	100	0	0	0	0	6.9E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.9E-01
SS N 35	97	0	0	0	3	3.0E+00	0.0E+00	0.0E+00	0.0E+00	4.9E-02	3.0E+00
SS N 36	57	0	0	0	43	1.4E-01	0.0E+00	0.0E+00	0.0E+00	5.3E-02	1.9E-01
SS O 02	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.5E-02	7.5E-02
SS O 03	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.1E-02	8.1E-02
SS O 04	0	30	0	0	70	0.0E+00	7.9E-03	0.0E+00	0.0E+00	2.8E-02	3.6E-02
SS O 05	0	71	1	0	28	0.0E+00	2.1E-02	5.8E-04	0.0E+00	1.2E-02	3.3E-02
SS O 06	0	79	1	0	20	0.0E+00	1.9E-02	5.3E-04	0.0E+00	7.0E-03	2.6E-02
SS O 07	0	89	2	0	9	0.0E+00	3.1E-02	1.2E-03	0.0E+00	4.5E-03	3.7E-02
SS O 08	0	93	0	0	7	0.0E+00	3.4E-02	0.0E+00	0.0E+00	3.9E-03	3.8E-02
SS O 09	0	29	0	0	71	0.0E+00	1.1E-02	0.0E+00	0.0E+00	4.0E-02	5.1E-02
SS O 10	0	48	0	0	52	0.0E+00	1.5E-02	0.0E+00	0.0E+00	2.4E-02	3.9E-02
SS O 11	43	1	0	0	56	7.4E-02	5.5E-04	0.0E+00	0.0E+00	4.8E-02	1.2E-01
SS O 12	10	0	0	0	90	7.3E-03	0.0E+00	0.0E+00	0.0E+00	3.3E-02	4.0E-02
SS O 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS O 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.4E-02	3.4E-02
SS O 15	0	0	0	0	100	0.0E+00	2.2E-05	0.0E+00	0.0E+00	5.2E-02	5.2E-02
SS O 16	0	33	0	0	67	0.0E+00	1.1E-02	0.0E+00	0.0E+00	3.4E-02	4.5E-02
SS O 17	0	31	0	0	69	0.0E+00	1.0E-02	0.0E+00	0.0E+00	3.3E-02	4.3E-02
SS O 18	0	60	0	0	40	0.0E+00	2.5E-02	0.0E+00	0.0E+00	2.5E-02	5.0E-02
SS O 19	0	59	0	0	41	0.0E+00	3.7E-02	0.0E+00	0.0E+00	3.9E-02	7.5E-02
SS O 20	0	88	0	0	12	0.0E+00	3.4E-02	0.0E+00	0.0E+00	7.3E-03	4.2E-02
SS O 21	0	72	0	0	28	0.0E+00	2.9E-02	0.0E+00	0.0E+00	1.7E-02	4.6E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(8)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS O 22	0	74	0	0	26	0.0E+00	4.0E-02	0.0E+00	0.0E+00	2.1E-02	6.1E-02
SS O 23	0	56	0	0	44	0.0E+00	3.4E-02	0.0E+00	0.0E+00	4.1E-02	7.6E-02
SS O 24	0	37	0	0	63	0.0E+00	2.5E-02	0.0E+00	0.0E+00	6.4E-02	8.9E-02
SS O 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.2E-01	1.2E-01
SS O 26	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-01	2.7E-01
SS O 27	0	0	0	0	100	0.0E+00	5.1E-04	0.0E+00	0.0E+00	3.3E-01	3.3E-01
SS O 28	0	0	0	0	100	0.0E+00	3.2E-03	0.0E+00	0.0E+00	1.3E+00	1.3E+00
SS O 29	0	21	3	0	75	2.1E-02	4.5E-01	1.0E-01	0.0E+00	2.4E+00	3.0E+00
SS O 30	18	7	0	37	38	7.4E-01	1.0E-01	0.0E+00	7.5E-01	7.8E-01	2.4E+00
SS O 31	37	33	0	18	11	7.0E-02	2.1E-02	0.0E+00	1.7E-02	1.1E-02	1.2E-01
SS O 32	83	0	1	1	15	1.1E-01	0.0E+00	7.7E-04	5.5E-04	1.0E-02	1.3E-01
SS O 33	96	0	0	0	4	2.0E-01	0.0E+00	0.0E+00	0.0E+00	3.8E-03	2.1E-01
SS O 34	82	0	0	0	18	5.3E-01	0.0E+00	0.0E+00	0.0E+00	5.7E-02	5.9E-01
SS O 35	48	0	0	0	52	6.2E-02	6.6E-05	0.0E+00	0.0E+00	3.3E-02	9.5E-02
SS O 36	29	1	0	0	70	2.7E-02	3.3E-04	0.0E+00	0.0E+00	3.3E-02	6.1E-02
SS P 01	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.0E-02	4.0E-02
SS P 02	0	2	0	0	98	0.0E+00	5.3E-04	0.0E+00	0.0E+00	4.2E-02	4.3E-02
SS P 03	0	57	0	0	43	0.0E+00	1.3E-02	0.0E+00	0.0E+00	1.4E-02	2.7E-02
SS P 04	0	64	0	0	36	0.0E+00	1.7E-02	0.0E+00	0.0E+00	1.4E-02	3.1E-02
SS P 05	0	83	0	0	17	0.0E+00	1.9E-02	0.0E+00	0.0E+00	5.5E-03	2.4E-02
SS P 06	0	90	0	0	10	0.0E+00	2.6E-02	0.0E+00	0.0E+00	4.4E-03	3.0E-02
SS P 07	0	100	0	0	0	0.0E+00	3.0E-02	0.0E+00	0.0E+00	0.0E+00	3.0E-02
SS P 08	0	76	0	0	24	0.0E+00	2.4E-02	0.0E+00	0.0E+00	1.2E-02	3.6E-02
SS P 09	0	63	0	0	37	0.0E+00	1.3E-02	0.0E+00	0.0E+00	1.1E-02	2.4E-02
SS P 10	0	5	0	0	95	0.0E+00	1.2E-03	0.0E+00	0.0E+00	3.3E-02	3.4E-02
SS P 11	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.6E-02	2.6E-02
SS P 12	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-02	3.0E-02
SS P 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.3E-02	3.3E-02
SS P 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-01	1.0E-01
SS P 15	0	9	0	0	91	0.0E+00	2.3E-03	0.0E+00	0.0E+00	3.7E-02	3.9E-02
SS P 16	0	39	0	0	61	0.0E+00	9.9E-03	0.0E+00	0.0E+00	2.3E-02	3.3E-02
SS P 17	0	44	0	0	56	0.0E+00	2.6E-02	0.0E+00	0.0E+00	4.9E-02	7.4E-02
SS P 18	0	70	0	0	30	0.0E+00	3.6E-02	0.0E+00	0.0E+00	2.3E-02	5.9E-02
SS P 19	0	52	0	0	48	0.0E+00	2.7E-02	0.0E+00	0.0E+00	3.8E-02	6.5E-02
SS P 20	0	45	0	0	55	0.0E+00	1.2E-02	0.0E+00	0.0E+00	2.2E-02	3.5E-02
SS P 21	0	21	0	0	79	0.0E+00	2.6E-01	0.0E+00	0.0E+00	1.5E+00	1.7E+00
SS P 22	0	77	0	0	23	4.2E-04	3.6E-02	8.5E-05	0.0E+00	1.6E-02	5.2E-02
SS P 23	6	69	1	0	24	7.7E-03	2.8E-02	8.8E-04	0.0E+00	1.4E-02	5.1E-02
SS P 24	8	52	0	0	39	8.3E-03	1.7E-02	0.0E+00	0.0E+00	1.9E-02	4.4E-02
SS P 25	0	20	0	0	80	0.0E+00	1.1E-02	0.0E+00	0.0E+00	6.4E-02	7.5E-02
SS P 26	0	43	0	0	57	0.0E+00	4.0E-02	0.0E+00	0.0E+00	7.8E-02	1.2E-01
SS P 27	0	81	0	0	19	0.0E+00	7.8E-02	0.0E+00	0.0E+00	2.8E-02	1.1E-01
SS P 28	37	8	0	0	55	3.1E-01	2.1E-02	0.0E+00	0.0E+00	2.3E-01	5.6E-01
SS P 29	63	9	0	0	28	8.7E-01	4.0E-02	0.0E+00	0.0E+00	1.9E-01	1.1E+00
SS P 30	60	3	0	0	38	1.4E-01	2.1E-03	0.0E+00	0.0E+00	4.4E-02	1.8E-01
SS P 31	87	0	0	0	13	1.4E-01	0.0E+00	0.0E+00	0.0E+00	1.0E-02	1.5E-01
SS P 32	94	0	0	0	6	2.8E-01	0.0E+00	0.0E+00	0.0E+00	8.0E-03	2.8E-01
SS P 33	61	0	0	0	39	1.2E-01	0.0E+00	0.0E+00	0.0E+00	3.9E-02	1.6E-01
SS P 34	14	9	0	0	77	9.3E-03	2.0E-03	0.0E+00	0.0E+00	2.6E-02	3.7E-02
SS P 35	0	1	0	0	99	0.0E+00	3.2E-04	0.0E+00	0.0E+00	4.6E-02	4.6E-02
SS P 36	0	5	0	0	95	0.0E+00	1.3E-03	0.0E+00	0.0E+00	4.0E-02	4.1E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(9)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS Q 01	0	6	0	0	94	0.0E+00	1.8E-03	0.0E+00	0.0E+00	4.4E-02	4.6E-02
SS Q 02	0	79	0	0	21	0.0E+00	2.0E-02	0.0E+00	0.0E+00	8.2E-03	2.8E-02
SS Q 03	0	87	0	0	13	0.0E+00	2.3E-02	0.0E+00	0.0E+00	5.2E-03	2.8E-02
SS Q 04	0	86	0	0	14	0.0E+00	2.0E-02	0.0E+00	0.0E+00	4.8E-03	2.5E-02
SS Q 05	0	78	0	0	22	0.0E+00	2.0E-02	0.0E+00	0.0E+00	8.2E-03	2.8E-02
SS Q 06	0	96	0	0	4	0.0E+00	2.4E-02	0.0E+00	0.0E+00	1.4E-03	2.5E-02
SS Q 07	0	100	0	0	0	0.0E+00	2.5E-02	0.0E+00	0.0E+00	0.0E+00	2.5E-02
SS Q 08	0	91	0	0	9	0.0E+00	2.1E-02	0.0E+00	0.0E+00	3.3E-03	2.5E-02
SS Q 09	0	80	0	0	20	0.0E+00	1.8E-02	0.0E+00	0.0E+00	6.9E-03	2.5E-02
SS Q 10	0	2	0	0	98	0.0E+00	3.9E-04	0.0E+00	0.0E+00	2.8E-02	2.9E-02
SS Q 11	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.3E-02	3.3E-02
SS Q 12	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-02	2.3E-02
SS Q 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.4E-02	3.4E-02
SS Q 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.0E-02	7.0E-02
SS Q 15	1	40	0	0	59	7.8E-04	1.1E-02	0.0E+00	0.0E+00	2.5E-02	3.8E-02
SS Q 16	0	12	0	0	88	0.0E+00	5.6E-03	0.0E+00	0.0E+00	6.0E-02	6.5E-02
SS Q 17	0	43	0	0	57	0.0E+00	2.5E-02	0.0E+00	0.0E+00	5.0E-02	7.5E-02
SS Q 18	0	2	0	0	98	0.0E+00	9.5E-04	0.0E+00	0.0E+00	7.2E-02	7.3E-02
SS Q 19	0	32	0	0	68	0.0E+00	1.2E-02	0.0E+00	0.0E+00	3.9E-02	5.1E-02
SS Q 20	0	6	0	0	94	0.0E+00	2.7E-02	0.0E+00	0.0E+00	7.0E-01	7.3E-01
SS Q 21	0	8	0	0	92	0.0E+00	4.3E-03	0.0E+00	0.0E+00	7.3E-02	7.7E-02
SS Q 22	1	16	1	0	82	1.3E-03	1.0E-02	1.0E-03	0.0E+00	8.1E-02	9.4E-02
SS Q 23	18	47	1	0	33	4.6E-02	4.0E-02	1.2E-03	0.0E+00	4.2E-02	1.3E-01
SS Q 24	13	25	3	0	59	4.1E-02	2.6E-02	4.5E-03	0.0E+00	9.4E-02	1.7E-01
SS Q 25	0	90	0	0	10	0.0E+00	6.1E-02	0.0E+00	0.0E+00	9.8E-03	7.1E-02
SS Q 26	0	100	0	0	0	0.0E+00	5.5E-02	0.0E+00	0.0E+00	0.0E+00	5.5E-02
SS Q 27	0	100	0	0	0	0.0E+00	1.0E-01	0.0E+00	0.0E+00	0.0E+00	1.0E-01
SS Q 28	0	34	0	0	66	0.0E+00	1.8E-02	0.0E+00	0.0E+00	5.4E-02	7.2E-02
SS Q 29	0	53	0	0	47	0.0E+00	2.9E-02	0.0E+00	0.0E+00	3.8E-02	6.7E-02
SS Q 30	0	72	0	0	28	0.0E+00	3.2E-02	0.0E+00	0.0E+00	1.9E-02	5.1E-02
SS Q 31	2	55	2	0	41	2.5E-03	2.4E-02	1.4E-03	0.0E+00	2.7E-02	5.4E-02
SS Q 32	3	10	9	0	78	3.0E-03	3.7E-03	5.0E-03	0.0E+00	4.2E-02	5.4E-02
SS Q 33	5	0	0	0	95	3.9E-03	0.0E+00	0.0E+00	0.0E+00	3.5E-02	3.9E-02
SS R 01	0	51	0	0	49	0.0E+00	1.2E-02	0.0E+00	0.0E+00	1.7E-02	2.9E-02
SS R 02	0	97	0	0	3	0.0E+00	2.2E-02	0.0E+00	0.0E+00	9.9E-04	2.3E-02
SS R 03	0	98	0	0	2	0.0E+00	2.8E-02	0.0E+00	0.0E+00	7.1E-04	2.9E-02
SS R 04	1	67	0	0	32	1.3E-03	2.1E-02	0.0E+00	0.0E+00	1.5E-02	3.7E-02
SS R 05	8	67	5	0	20	8.0E-03	2.1E-02	2.6E-03	0.0E+00	9.4E-03	4.2E-02
SS R 06	0	85	0	0	15	0.0E+00	2.6E-02	0.0E+00	0.0E+00	6.8E-03	3.3E-02
SS R 07	0	91	0	0	9	0.0E+00	2.8E-02	0.0E+00	0.0E+00	4.4E-03	3.3E-02
SS R 08	0	56	1	0	43	0.0E+00	1.6E-02	6.2E-04	0.0E+00	1.9E-02	3.6E-02
SS R 09	0	30	0	0	70	0.0E+00	7.5E-03	0.0E+00	0.0E+00	2.6E-02	3.3E-02
SS R 10	0	0	0	0	100	0.0E+00	3.2E-05	0.0E+00	0.0E+00	3.4E-02	3.4E-02
SS R 11	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS R 12	0	10	0	0	90	0.0E+00	2.0E-03	0.0E+00	0.0E+00	2.6E-02	2.8E-02
SS R 13	0	17	0	0	83	0.0E+00	4.7E-03	0.0E+00	0.0E+00	3.5E-02	4.0E-02
SS R 14	6	26	0	0	68	5.8E-02	8.1E-02	0.0E+00	0.0E+00	3.2E-01	4.6E-01
SS R 15	28	41	0	0	30	8.5E-01	4.1E-01	0.0E+00	0.0E+00	4.6E-01	1.7E+00
SS R 16	0	34	2	0	63	0.0E+00	1.5E-01	1.5E-02	0.0E+00	4.1E-01	5.8E-01
SS R 17	0	41	0	0	59	0.0E+00	2.3E-02	0.0E+00	0.0E+00	5.0E-02	7.3E-02
SS R 18	0	15	0	0	85	0.0E+00	1.4E-02	0.0E+00	0.0E+00	1.2E-01	1.4E-01

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(10)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS R 19	0	1	0	0	99	0.0E+00	4.3E-04	0.0E+00	0.0E+00	6.8E-02	6.8E-02
SS R 20	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.3E-02	8.3E-02
SS R 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.9E-02	6.9E-02
SS R 22	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-01	1.1E-01
SS R 23	0	7	4	0	89	0.0E+00	3.7E-03	3.1E-03	0.0E+00	6.8E-02	7.4E-02
SS R 24	0	8	5	0	88	0.0E+00	3.7E-03	3.2E-03	0.0E+00	6.2E-02	6.9E-02
SS R 25	0	77	0	0	23	0.0E+00	2.4E-01	0.0E+00	0.0E+00	1.1E-01	3.5E-01
SS R 26	0	100	0	0	0	0.0E+00	1.1E-01	0.0E+00	0.0E+00	0.0E+00	1.1E-01
SS R 27	0	87	0	0	13	0.0E+00	6.9E-02	0.0E+00	0.0E+00	1.5E-02	8.4E-02
SS R 28	0	15	0	0	85	0.0E+00	8.8E-03	0.0E+00	0.0E+00	7.5E-02	8.4E-02
SS R 29	0	98	0	0	2	0.0E+00	3.6E-02	0.0E+00	0.0E+00	1.1E-03	3.7E-02
SS R 30	0	100	0	0	0	0.0E+00	4.4E-02	0.0E+00	0.0E+00	0.0E+00	4.4E-02
SS R 31	0	68	4	0	28	0.0E+00	2.1E-02	1.7E-03	0.0E+00	1.3E-02	3.6E-02
SS R 32	0	4	4	0	92	0.0E+00	1.5E-03	2.4E-03	0.0E+00	5.7E-02	6.1E-02
SS R 33	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.9E-02	3.9E-02
SS S 01	0	61	0	0	39	0.0E+00	1.4E-02	0.0E+00	0.0E+00	1.4E-02	2.8E-02
SS S 02	0	76	0	0	24	0.0E+00	1.7E-02	0.0E+00	0.0E+00	8.1E-03	2.5E-02
SS S 03	0	70	0	0	30	0.0E+00	1.6E-02	0.0E+00	0.0E+00	9.8E-03	2.5E-02
SS S 04	0	90	0	0	10	0.0E+00	4.9E-02	0.0E+00	0.0E+00	8.2E-03	5.7E-02
SS S 05	0	86	0	0	14	3.5E-04	7.3E-02	0.0E+00	0.0E+00	1.8E-02	9.1E-02
SS S 06	0	96	0	0	4	0.0E+00	1.7E-01	0.0E+00	0.0E+00	9.8E-03	1.8E-01
SS S 07	0	78	0	0	22	0.0E+00	2.6E-01	0.0E+00	0.0E+00	1.1E-01	3.7E-01
SS S 08	0	36	1	0	64	0.0E+00	5.2E-02	1.5E-03	0.0E+00	1.4E-01	1.9E-01
SS S 09	0	24	0	0	76	0.0E+00	1.4E-01	0.0E+00	0.0E+00	6.3E-01	7.7E-01
SS S 10	0	16	0	0	84	0.0E+00	1.1E-01	0.0E+00	0.0E+00	8.9E-01	1.0E+00
SS S 11	0	29	0	0	71	0.0E+00	1.5E-01	0.0E+00	0.0E+00	5.3E-01	6.7E-01
SS S 12	0	64	0	0	36	0.0E+00	3.4E-01	0.0E+00	0.0E+00	2.9E-01	6.3E-01
SS S 13	0	40	0	0	60	0.0E+00	2.5E-01	0.0E+00	0.0E+00	5.7E-01	8.2E-01
SS S 14	0	13	0	0	87	0.0E+00	3.9E-02	0.0E+00	0.0E+00	3.8E-01	4.1E-01
SS S 15	0	50	0	0	50	0.0E+00	4.7E-01	0.0E+00	0.0E+00	7.1E-01	1.2E+00
SS S 16	0	51	2	0	47	0.0E+00	2.1E-01	9.9E-03	0.0E+00	2.9E-01	5.1E-01
SS S 17	0	30	0	0	70	0.0E+00	2.4E-01	0.0E+00	0.0E+00	8.1E-01	1.0E+00
SS S 18	0	20	2	0	78	0.0E+00	3.9E-02	4.8E-03	0.0E+00	2.3E-01	2.7E-01
SS S 19	0	39	0	0	61	0.0E+00	1.3E-02	0.0E+00	0.0E+00	3.1E-02	4.4E-02
SS S 20	0	33	0	0	67	0.0E+00	1.3E-02	0.0E+00	0.0E+00	4.0E-02	5.3E-02
SS S 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.6E-02	6.6E-02
SS S 22	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.3E-02	9.3E-02
SS S 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.0E-01	6.0E-01
SS S 24	0	1	0	0	99	0.0E+00	7.0E-04	0.0E+00	0.0E+00	1.4E-01	1.4E-01
SS S 25	0	53	0	0	47	0.0E+00	5.3E-02	0.0E+00	0.0E+00	7.2E-02	1.2E-01
SS S 26	0	70	0	0	30	0.0E+00	6.8E-02	0.0E+00	0.0E+00	4.5E-02	1.1E-01
SS S 27	0	38	0	0	62	0.0E+00	3.6E-02	0.0E+00	0.0E+00	8.6E-02	1.2E-01
SS S 28	0	66	0	0	34	0.0E+00	2.4E-02	0.0E+00	0.0E+00	1.8E-02	4.2E-02
SS S 29	0	100	0	0	0	0.0E+00	2.7E-02	0.0E+00	0.0E+00	0.0E+00	2.7E-02
SS S 30	0	95	0	0	5	0.0E+00	6.3E-02	0.0E+00	0.0E+00	5.3E-03	6.8E-02
SS S 31	0	32	0	0	68	0.0E+00	2.9E-02	0.0E+00	0.0E+00	9.2E-02	1.2E-01
SS S 32	0	0	0	0	100	0.0E+00	1.5E-04	0.0E+00	0.0E+00	5.0E-02	5.0E-02
SS S 33	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.3E-02	6.3E-02
SS T 01	0	71	0	0	29	0.0E+00	2.5E-02	0.0E+00	0.0E+00	1.5E-02	4.0E-02
SS T 02	0	33	0	0	67	0.0E+00	1.3E-02	0.0E+00	0.0E+00	4.1E-02	5.4E-02
SS T 03	0	32	0	0	68	0.0E+00	1.4E-02	0.0E+00	0.0E+00	4.4E-02	5.8E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(11)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS T 04	0	84	0	0	16	0.0E+00	3.9E-02	0.0E+00	0.0E+00	1.1E-02	5.0E-02
SS T 05	0	54	0	0	46	0.0E+00	3.1E-01	0.0E+00	0.0E+00	3.9E-01	7.0E-01
SS T 06	0	36	0	0	64	0.0E+00	1.3E-01	0.0E+00	0.0E+00	3.4E-01	4.7E-01
SS T 07	0	12	0	0	88	0.0E+00	3.1E-02	0.0E+00	0.0E+00	3.6E-01	3.9E-01
SS T 08	0	32	0	0	68	0.0E+00	9.0E-02	0.0E+00	0.0E+00	2.8E-01	3.7E-01
SS T 09	0	16	0	0	84	0.0E+00	1.0E-01	0.0E+00	0.0E+00	8.2E-01	9.2E-01
SS T 10	0	4	0	0	96	0.0E+00	1.9E-02	0.0E+00	0.0E+00	7.2E-01	7.4E-01
SS T 11	0	24	0	0	76	0.0E+00	4.5E-02	0.0E+00	0.0E+00	2.1E-01	2.6E-01
SS T 12	0	12	0	0	88	0.0E+00	3.4E-03	0.0E+00	0.0E+00	3.8E-02	4.1E-02
SS T 13	0	2	0	0	98	0.0E+00	5.3E-04	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS T 14	0	12	0	0	88	0.0E+00	3.7E-03	0.0E+00	0.0E+00	4.0E-02	4.4E-02
SS T 15	12	32	0	0	55	5.7E-03	5.0E-03	0.0E+00	0.0E+00	1.3E-02	2.4E-02
SS T 16	26	9	0	0	66	2.0E-02	2.3E-03	0.0E+00	0.0E+00	2.6E-02	4.9E-02
SS T 17	0	29	0	0	71	0.0E+00	6.7E-03	0.0E+00	0.0E+00	2.4E-02	3.1E-02
SS T 18	0	23	0	0	77	0.0E+00	8.0E-03	0.0E+00	0.0E+00	4.0E-02	4.8E-02
SS T 19	0	30	0	0	70	0.0E+00	3.9E-02	0.0E+00	0.0E+00	1.4E-01	1.8E-01
SS T 20	0	53	0	0	47	0.0E+00	7.1E-02	0.0E+00	0.0E+00	9.4E-02	1.7E-01
SS T 21	0	24	0	0	76	0.0E+00	3.5E-02	0.0E+00	0.0E+00	1.7E-01	2.1E-01
SS T 22	0	5	0	0	95	0.0E+00	3.1E-03	0.0E+00	0.0E+00	9.8E-02	1.0E-01
SS T 23	0	2	0	0	98	0.0E+00	4.1E-03	0.0E+00	0.0E+00	2.7E-01	2.8E-01
SS T 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.4E-01	5.4E-01
SS T 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.8E-02	4.8E-02
SS T 26	0	14	0	0	86	0.0E+00	6.3E-03	0.0E+00	0.0E+00	5.8E-02	6.4E-02
SS T 27	0	16	0	0	84	0.0E+00	7.2E-03	0.0E+00	0.0E+00	5.5E-02	6.3E-02
SS T 28	0	57	0	0	43	0.0E+00	1.4E-02	0.0E+00	0.0E+00	1.5E-02	2.9E-02
SS T 29	0	100	0	0	0	0.0E+00	2.7E-02	0.0E+00	0.0E+00	0.0E+00	2.7E-02
SS T 30	0	74	5	0	20	0.0E+00	2.3E-02	2.5E-03	0.0E+00	9.6E-03	3.5E-02
SS T 31	0	1	0	0	99	0.0E+00	3.1E-04	0.0E+00	0.0E+00	4.7E-02	4.7E-02
SS T 32	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.5E-01	4.5E-01
SS T 33	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-01	1.0E-01
SS U 01	0	54	0	0	46	0.0E+00	1.7E-02	0.0E+00	0.0E+00	2.1E-02	3.8E-02
SS U 02	0	72	0	0	28	0.0E+00	9.7E-02	0.0E+00	0.0E+00	5.5E-02	1.5E-01
SS U 03	0	61	0	0	39	0.0E+00	1.0E-01	0.0E+00	0.0E+00	9.5E-02	2.0E-01
SS U 04	0	33	0	0	67	0.0E+00	6.0E-02	0.0E+00	0.0E+00	1.8E-01	2.4E-01
SS U 05	0	27	0	0	73	0.0E+00	6.0E-02	0.0E+00	0.0E+00	2.5E-01	3.1E-01
SS U 06	0	59	0	0	41	0.0E+00	2.2E-02	0.0E+00	0.0E+00	2.3E-02	4.5E-02
SS U 07	14	31	0	0	56	1.5E-02	1.1E-02	0.0E+00	0.0E+00	3.1E-02	5.7E-02
SS U 08	1	0	0	0	99	6.4E-04	0.0E+00	0.0E+00	0.0E+00	3.2E-02	3.3E-02
SS U 09	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.8E-02	5.8E-02
SS U 10	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.7E-02	7.7E-02
SS U 11	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.8E-02	6.8E-02
SS U 12	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-02	5.0E-02
SS U 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.4E-02	6.4E-02
SS U 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.4E-02	7.4E-02
SS U 15	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.9E-02	5.9E-02
SS U 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.7E-02	5.7E-02
SS U 17	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS U 18	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.5E-02	6.5E-02
SS U 19	0	4	0	0	96	0.0E+00	1.9E-03	0.0E+00	0.0E+00	5.9E-02	6.1E-02
SS U 20	0	28	0	0	72	0.0E+00	5.9E-03	0.0E+00	0.0E+00	2.3E-02	2.9E-02
SS U 21	0	18	0	0	82	0.0E+00	7.5E-03	0.0E+00	0.0E+00	5.1E-02	5.8E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(12)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS U 22	0	43	0	0	57	0.0E+00	6.7E-02	0.0E+00	0.0E+00	1.4E-01	2.0E-01
SS U 23	0	15	1	0	83	0.0E+00	3.3E-02	4.3E-03	0.0E+00	2.7E-01	3.0E-01
SS U 24	0	27	3	0	71	0.0E+00	3.2E-02	4.7E-03	0.0E+00	1.3E-01	1.6E-01
SS U 25	0	3	0	0	97	2.7E-04	1.6E-03	0.0E+00	0.0E+00	7.0E-02	7.2E-02
SS U 26	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-01	1.0E-01
SS U 27	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.6E-01	5.6E-01
SS U 28	0	25	0	0	75	0.0E+00	3.0E-02	0.0E+00	0.0E+00	1.3E-01	1.6E-01
SS U 29	0	56	0	0	44	0.0E+00	2.2E-02	0.0E+00	0.0E+00	2.6E-02	4.7E-02
SS U 30	0	12	0	0	88	0.0E+00	6.6E-02	0.0E+00	0.0E+00	7.0E-01	7.7E-01
SS U 31	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-01	1.0E-01
SS U 32	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-01	1.1E-01
SS U 33	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.1E-02	9.1E-02
SS V 01	0	29	0	0	71	0.0E+00	4.8E-02	0.0E+00	0.0E+00	1.7E-01	2.2E-01
SS V 02	0	59	0	0	41	0.0E+00	1.4E-01	0.0E+00	0.0E+00	1.5E-01	2.9E-01
SS V 03	0	78	0	0	22	0.0E+00	1.6E-01	0.0E+00	0.0E+00	6.6E-02	2.3E-01
SS V 04	0	73	0	0	27	0.0E+00	1.9E-01	0.0E+00	0.0E+00	1.1E-01	2.9E-01
SS V 05	0	59	0	0	41	0.0E+00	2.8E-02	0.0E+00	0.0E+00	2.9E-02	5.7E-02
SS V 06	0	41	0	0	59	0.0E+00	1.4E-02	0.0E+00	0.0E+00	3.1E-02	4.5E-02
SS V 07	0	3	0	0	97	0.0E+00	1.2E-03	0.0E+00	0.0E+00	6.6E-02	6.7E-02
SS V 08	0	60	0	0	40	0.0E+00	2.1E-02	0.0E+00	0.0E+00	2.1E-02	4.1E-02
SS V 09	0	52	0	0	48	0.0E+00	1.7E-02	0.0E+00	0.0E+00	2.4E-02	4.1E-02
SS V 10	0	53	0	0	47	0.0E+00	1.9E-02	0.0E+00	0.0E+00	2.5E-02	4.4E-02
SS V 11	0	17	0	0	83	0.0E+00	3.5E-03	0.0E+00	0.0E+00	2.6E-02	3.0E-02
SS V 12	0	12	0	0	88	0.0E+00	2.8E-03	0.0E+00	0.0E+00	3.0E-02	3.3E-02
SS V 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.4E-02	3.4E-02
SS V 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-02	3.0E-02
SS V 15	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.8E-02	1.8E-02
SS V 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-02	4.6E-02
SS V 17	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.5E-02	3.5E-02
SS V 18	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.9E-02	3.9E-02
SS V 19	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-02	2.3E-02
SS V 20	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-02	3.0E-02
SS V 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-02	4.6E-02
SS V 22	0	10	0	0	90	0.0E+00	2.0E-03	0.0E+00	0.0E+00	2.6E-02	2.8E-02
SS V 23	0	43	0	0	57	0.0E+00	1.3E-02	0.0E+00	0.0E+00	2.5E-02	3.7E-02
SS V 24	0	37	0	0	63	0.0E+00	9.4E-02	0.0E+00	0.0E+00	2.4E-01	3.4E-01
SS V 25	23	26	0	0	52	8.3E-02	3.2E-02	0.0E+00	0.0E+00	9.6E-02	2.1E-01
SS V 26	29	15	6	0	50	8.5E-02	1.5E-02	9.1E-03	0.0E+00	7.4E-02	1.8E-01
SS V 27	0	14	9	0	77	0.0E+00	9.6E-03	8.9E-03	0.0E+00	7.7E-02	9.5E-02
SS V 28	0	11	3	0	87	0.0E+00	3.0E-02	1.1E-02	0.0E+00	3.6E-01	4.0E-01
SS V 29	0	13	0	0	87	0.0E+00	9.5E-03	0.0E+00	0.0E+00	9.6E-02	1.1E-01
SS V 30	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.7E-02	7.7E-02
SS V 31	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.7E-02	8.7E-02
SS V 32	0	0	1	0	99	0.0E+00	1.0E-04	1.1E-03	0.0E+00	8.7E-02	8.8E-02
SS V 33	0	3	0	0	97	0.0E+00	8.1E-04	0.0E+00	0.0E+00	4.2E-02	4.3E-02
SS W 01	0	21	0	0	79	0.0E+00	8.9E-02	0.0E+00	0.0E+00	4.9E-01	5.8E-01
SS W 02	0	96	0	0	4	0.0E+00	4.5E-01	0.0E+00	0.0E+00	2.5E-02	4.7E-01
SS W 03	0	59	0	0	41	0.0E+00	2.0E-02	0.0E+00	0.0E+00	2.1E-02	4.1E-02
SS W 04	0	47	0	0	53	0.0E+00	1.9E-02	0.0E+00	0.0E+00	3.2E-02	5.2E-02
SS W 05	0	40	0	0	60	0.0E+00	1.8E-02	0.0E+00	0.0E+00	4.1E-02	5.9E-02
SS W 06	0	32	0	0	68	0.0E+00	1.4E-02	0.0E+00	0.0E+00	4.3E-02	5.7E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(13)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS W 07	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.8E-02	6.8E-02
SS W 08	0	35	0	0	65	0.0E+00	1.6E-02	0.0E+00	0.0E+00	4.4E-02	6.0E-02
SS W 09	0	32	0	0	68	0.0E+00	1.3E-02	0.0E+00	0.0E+00	4.1E-02	5.4E-02
SS W 10	0	65	0	0	35	0.0E+00	1.1E-02	0.0E+00	0.0E+00	9.1E-03	2.1E-02
SS W 11	0	54	0	0	46	0.0E+00	9.2E-03	0.0E+00	0.0E+00	1.2E-02	2.1E-02
SS W 12	0	65	0	0	35	0.0E+00	1.4E-02	0.0E+00	0.0E+00	1.2E-02	2.6E-02
SS W 13	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.7E-02	3.7E-02
SS W 14	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-02	2.7E-02
SS W 15	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.4E-02	2.4E-02
SS W 16	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.7E-02	1.7E-02
SS W 17	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-02	2.7E-02
SS W 18	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-02	2.7E-02
SS W 19	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.0E-02	4.0E-02
SS W 20	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-02	3.8E-02
SS W 21	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-02	3.0E-02
SS W 22	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.5E-02	3.5E-02
SS W 23	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.1E-02	4.1E-02
SS W 24	0	35	0	0	65	0.0E+00	9.8E-03	0.0E+00	0.0E+00	2.8E-02	3.7E-02
SS W 25	0	12	0	0	88	0.0E+00	8.5E-03	0.0E+00	0.0E+00	9.8E-02	1.1E-01
SS W 26	0	7	1	0	92	0.0E+00	3.8E-03	9.6E-04	0.0E+00	7.9E-02	8.4E-02
SS W 27	0	10	2	0	88	0.0E+00	1.5E-02	4.7E-03	0.0E+00	2.1E-01	2.3E-01
SS W 28	0	15	0	0	85	0.0E+00	3.4E-02	6.8E-05	0.0E+00	2.9E-01	3.2E-01
SS W 29	0	0	0	0	100	0.0E+00	8.6E-05	0.0E+00	0.0E+00	2.2E-01	2.2E-01
SS W 30	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.4E-01	2.4E-01
SS W 31	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.2E-02	8.2E-02
SS W 32	0	25	0	0	75	0.0E+00	1.4E-02	3.0E-04	0.0E+00	6.1E-02	7.5E-02
SS W 33	0	4	3	0	93	0.0E+00	2.6E-03	2.9E-03	0.0E+00	8.9E-02	9.5E-02
SS X 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.7E-02	3.7E-02
SS X 25	0	2	0	0	98	0.0E+00	1.4E-03	0.0E+00	0.0E+00	1.0E-01	1.1E-01
SS X 26	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.6E-02	4.6E-02
SS X 27	0	21	0	0	79	0.0E+00	1.2E-02	0.0E+00	0.0E+00	6.9E-02	8.1E-02
SS X 28	0	17	3	0	80	0.0E+00	1.4E-02	3.5E-03	0.0E+00	1.0E-01	1.2E-01
SS X 29	0	27	0	0	73	0.0E+00	2.4E-02	0.0E+00	0.0E+00	9.8E-02	1.2E-01
SS X 30	0	14	2	0	84	0.0E+00	9.9E-03	2.2E-03	0.0E+00	8.9E-02	1.0E-01
SS X 31	0	9	0	0	91	0.0E+00	4.5E-03	0.0E+00	0.0E+00	6.9E-02	7.3E-02
SS X 32	0	15	5	0	80	0.0E+00	3.6E-03	1.7E-03	0.0E+00	2.8E-02	3.3E-02
SS X 33	0	9	0	0	91	0.0E+00	3.6E-03	0.0E+00	0.0E+00	5.6E-02	5.9E-02
SS Y 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-01	1.1E-01
SS Y 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.0E-01	2.0E-01
SS Y 26	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-01	1.1E-01
SS Y 27	0	6	0	0	94	0.0E+00	2.8E-03	0.0E+00	0.0E+00	7.2E-02	7.5E-02
SS Y 28	0	16	0	0	84	0.0E+00	1.2E-02	0.0E+00	0.0E+00	9.5E-02	1.1E-01
SS Y 29	17	8	0	0	75	3.7E-02	5.7E-03	3.0E-04	0.0E+00	8.0E-02	1.2E-01
SS Y 30	0	9	9	0	82	0.0E+00	5.4E-03	8.0E-03	0.0E+00	7.4E-02	8.7E-02
SS Y 31	59	0	0	0	41	1.3E-01	3.0E-04	0.0E+00	0.0E+00	4.5E-02	1.8E-01
SS Y 32	15	11	12	0	62	5.1E-02	1.2E-02	2.0E-02	0.0E+00	1.0E-01	1.8E-01
SS Y 33	0	2	0	0	98	0.0E+00	1.7E-03	0.0E+00	0.0E+00	1.2E-01	1.2E-01
SS Z 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.7E-01	1.7E-01
SS Z 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.1E-01	4.1E-01
SS Z 26	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-01	2.3E-01
SS Z 27	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.8E-02	8.8E-02

Data 6-5 (1) Exposure Risk of Heavy Metals in Soil Characterised by Land-use

(14)

(E: Exponent)

400m Grid	Land-use					Risk Characterised by Land-use					
	Residential Area	Agricultural area	Orchard	Tailings dam	Forest, bush & pasture	Residential Area	Agricult. area	Orchard	Tailings dam	Forest, bush & pasture	Total Risk by Land-use
Ratio of Land-use	%	%	%	%	%	Exposure frequency: 365days, 24 hrs/day	Exposure frequency: 365days, 8 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Exposure frequency: 365days, 12 hrs/day	Total
SS Z 28	0	22	0	0	78	0.0E+00	2.1E-02	0.0E+00	0.0E+00	1.1E-01	1.3E-01
SS Z 29	0	8	0	0	92	0.0E+00	5.8E-03	0.0E+00	0.0E+00	9.8E-02	1.0E-01
SS Z 30	15	6	0	0	79	4.2E-02	5.2E-03	0.0E+00	0.0E+00	1.1E-01	1.6E-01
SS Z 31	43	0	0	0	57	6.1E-02	0.0E+00	0.0E+00	0.0E+00	4.1E-02	1.0E-01
SS Z 32	46	1	0	0	54	1.3E-01	5.0E-04	5.2E-05	0.0E+00	7.6E-02	2.1E-01
SS Z 33	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-01	1.1E-01
SS a 24	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.9E-01	1.9E-01
SS a 25	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.9E-01	6.9E-01
SS a 26	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.7E-01	1.7E-01
SS a 27	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.1E-02	7.1E-02
SS a 28	0	0	0	0	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.6E-01	2.6E-01
SS a 29	0	20	12	0	68	0.0E+00	1.7E-02	1.5E-02	0.0E+00	8.4E-02	1.2E-01
SS a 30	1	17	3	0	80	5.5E-03	3.0E-02	6.9E-03	0.0E+00	2.1E-01	2.6E-01
SS a 31	8	0	0	0	92	2.3E-02	0.0E+00	0.0E+00	0.0E+00	1.3E-01	1.5E-01
SS a 32	26	3	0	0	71	4.3E-02	1.5E-03	0.0E+00	0.0E+00	5.9E-02	1.0E-01
SS a 33	12	0	0	0	88	1.8E-02	0.0E+00	0.0E+00	0.0E+00	6.8E-02	8.6E-02
Maximum	100.0	100.0	59.0	94.6	100.0	1.8E+01	4.7E-01	1.0E-01	2.8E+00	2.4E+00	1.9E+01
Minimum	0.0	0.0	0.0	0.0	0.0	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-02
Average	3.3	31.8	0.7	0.8	63.3	4.9E-02	2.1E-02	8.1E-04	1.7E-02	8.7E-02	1.8E-01

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil
Characterised by Land-use**

Data 6-5 (2)

Exposure Risk of Heavy Metals in Soil
Characterised by Land-use

(1)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS A 13	1.3E-02	7.5E-05	4.4E-04	2.5E-03	2.2E-02	6.1E-03	4.5E-02
SS A 14	1.1E-02	1.3E-03	3.8E-04	2.4E-03	1.7E-02	5.5E-03	3.8E-02
SS A 15	9.8E-03	1.4E-03	4.1E-04	3.5E-03	1.9E-02	5.3E-03	3.9E-02
SS A 16	9.0E-03	1.5E-03	4.4E-04	2.1E-03	2.7E-02	5.6E-03	4.6E-02
SS A 17	7.1E-03	6.5E-05	3.8E-04	2.3E-03	1.9E-02	5.8E-03	3.5E-02
SS A 18	1.2E-02	1.5E-03	4.4E-04	1.1E-02	2.0E-02	7.7E-03	5.2E-02
SS A 19	7.1E-03	1.4E-03	4.2E-04	9.8E-03	1.6E-02	4.7E-03	4.0E-02
SS A 20	7.8E-03	5.2E-05	3.1E-04	5.6E-03	1.0E-02	3.0E-03	2.7E-02
SS A 21	6.8E-03	5.7E-05	3.4E-04	3.5E-03	1.6E-02	3.5E-03	3.1E-02
SS A 22	1.0E-02	6.3E-05	3.7E-04	3.2E-03	1.6E-02	5.7E-03	3.5E-02
SS A 23	4.4E-03	5.5E-05	3.3E-04	4.5E-03	1.2E-02	3.8E-03	2.5E-02
SS A 24	4.1E-03	5.1E-05	3.0E-04	5.0E-03	2.0E-02	5.7E-03	3.5E-02
SS A 25	6.5E-03	1.3E-03	3.8E-04	6.5E-03	2.3E-02	6.3E-03	4.4E-02
SS B 12	2.6E-02	7.5E-05	4.4E-04	2.3E-03	2.4E-02	6.0E-03	5.9E-02
SS B 13	2.9E-02	7.5E-05	4.4E-04	1.4E-03	2.5E-02	7.1E-03	6.3E-02
SS B 14	1.3E-02	6.3E-05	3.7E-04	1.7E-03	1.8E-02	5.4E-03	3.8E-02
SS B 15	6.9E-03	6.3E-05	3.7E-04	3.4E-03	1.8E-02	6.8E-03	3.6E-02
SS B 16	7.5E-03	7.5E-05	4.4E-04	5.0E-03	1.6E-02	5.1E-03	3.4E-02
SS B 17	3.3E-03	6.7E-05	3.9E-04	5.8E-03	2.2E-02	5.3E-03	3.7E-02
SS B 18	8.3E-03	6.9E-05	4.1E-04	1.5E-02	1.7E-02	5.5E-03	4.6E-02
SS B 19	1.1E-02	7.5E-05	4.4E-04	1.2E-02	2.1E-02	6.0E-03	5.0E-02
SS B 20	5.6E-03	5.6E-05	3.3E-04	7.8E-03	1.3E-02	5.0E-03	3.2E-02
SS B 21	6.8E-03	5.7E-05	3.3E-04	4.0E-03	1.6E-02	3.7E-03	3.1E-02
SS B 22	8.3E-03	5.5E-05	3.2E-04	8.0E-03	1.2E-02	4.4E-03	3.3E-02
SS B 23	9.0E-03	7.5E-05	4.4E-04	7.4E-03	2.1E-02	5.4E-03	4.3E-02
SS B 24	6.8E-03	7.5E-05	4.4E-04	4.9E-03	1.6E-02	5.5E-03	3.4E-02
SS B 25	6.1E-03	5.5E-05	3.3E-04	3.7E-03	1.4E-02	3.6E-03	2.7E-02
SS C 11	7.5E-03	1.5E-03	4.4E-04	2.4E-03	2.7E-02	5.1E-03	4.3E-02
SS C 12	1.5E-02	7.5E-05	4.4E-04	2.2E-03	2.2E-02	6.0E-03	4.6E-02
SS C 13	9.8E-03	1.4E-03	4.1E-04	2.8E-03	2.0E-02	5.6E-03	3.9E-02
SS C 14	4.7E-03	5.9E-05	3.5E-04	3.2E-03	1.7E-02	7.8E-03	3.3E-02
SS C 15	1.1E-02	5.9E-05	3.5E-04	6.3E-03	1.7E-02	6.5E-03	4.2E-02
SS C 16	7.4E-03	6.2E-05	3.6E-04	2.5E-03	1.8E-02	6.2E-03	3.4E-02
SS C 17	8.6E-03	6.6E-05	3.9E-04	7.4E-03	1.9E-02	5.7E-03	4.1E-02
SS C 18	1.1E-02	7.2E-05	4.2E-04	8.3E-03	2.4E-02	6.2E-03	5.0E-02
SS C 19	8.9E-03	7.4E-05	4.3E-04	1.5E-02	2.2E-02	5.5E-03	5.2E-02
SS C 20	4.9E-03	6.1E-05	3.6E-04	7.9E-03	2.1E-02	6.2E-03	4.1E-02
SS C 21	1.7E-02	6.4E-05	3.7E-04	5.8E-03	1.6E-02	5.6E-03	4.5E-02
SS C 22	9.8E-03	1.0E-03	3.0E-04	3.1E-03	1.4E-02	4.0E-03	3.2E-02
SS C 23	2.3E-03	5.8E-05	3.4E-04	1.4E-03	5.3E-03	1.6E-03	1.1E-02
SS C 24	2.6E-03	6.5E-05	3.8E-04	3.1E-03	1.4E-02	5.0E-03	2.5E-02
SS C 25	6.6E-03	7.3E-05	4.3E-04	1.8E-03	1.7E-02	6.0E-03	3.2E-02
SS D 10	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.4E-02	6.3E-03	4.4E-02
SS D 11	2.4E-02	7.5E-05	4.4E-04	1.6E-03	2.2E-02	4.7E-03	5.3E-02
SS D 12	8.4E-03	6.5E-05	3.8E-04	2.9E-03	1.7E-02	4.8E-03	3.3E-02
SS D 13	7.8E-03	5.2E-05	3.1E-04	2.9E-03	1.4E-02	3.8E-03	2.9E-02
SS D 14	7.3E-03	6.6E-05	3.9E-04	7.7E-03	2.0E-02	5.8E-03	4.1E-02
SS D 15	6.0E-03	6.0E-05	3.5E-04	2.4E-03	2.0E-02	5.2E-03	3.4E-02
SS D 16	1.4E-02	7.5E-05	4.4E-04	4.5E-03	2.2E-02	5.9E-03	4.6E-02
SS D 17	4.6E-03	5.8E-05	3.4E-04	8.1E-03	1.5E-02	6.1E-03	3.5E-02
SS D 18	8.3E-03	6.4E-05	3.7E-04	8.8E-03	1.6E-02	4.7E-03	3.8E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(2) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS D 19	7.2E-03	6.5E-05	3.9E-04	8.2E-03	2.2E-02	6.2E-03	4.4E-02
SS D 20	6.3E-03	7.0E-05	4.1E-04	4.4E-03	1.4E-02	5.1E-03	3.1E-02
SS D 21	7.6E-03	6.9E-05	4.0E-04	4.6E-03	1.3E-02	4.5E-03	3.0E-02
SS D 22	9.6E-03	7.4E-05	4.3E-04	1.6E-03	1.6E-02	6.0E-03	3.4E-02
SS D 23	2.3E-02	7.5E-05	4.4E-04	2.3E-03	2.3E-02	4.7E-03	5.3E-02
SS D 24	4.1E-02	7.5E-05	4.4E-04	2.6E-03	3.0E-02	4.9E-03	7.9E-02
SS D 25	3.2E-02	7.5E-05	4.4E-04	1.8E-03	2.5E-02	5.6E-03	6.4E-02
SS E 9	6.7E-03	7.4E-05	4.4E-04	4.2E-03	1.7E-02	6.2E-03	3.5E-02
SS E 10	2.6E-02	7.5E-05	4.4E-04	1.0E-03	3.5E-02	3.1E-03	6.5E-02
SS E 11	6.7E-03	6.7E-05	3.9E-04	4.2E-03	3.0E-02	6.2E-03	4.8E-02
SS E 12	1.1E-02	5.6E-05	3.3E-04	8.9E-03	1.4E-02	4.1E-03	3.8E-02
SS E 13	2.9E-02	5.7E-05	3.3E-04	1.5E-03	2.4E-02	4.4E-03	6.0E-02
SS E 14	1.0E-02	5.5E-05	3.2E-04	1.1E-02	1.5E-02	4.6E-03	4.1E-02
SS E 15	4.3E-03	5.4E-05	3.2E-04	8.7E-03	1.2E-02	4.7E-03	3.0E-02
SS E 16	4.0E-03	5.0E-05	2.9E-04	6.3E-03	6.6E-03	3.0E-03	2.0E-02
SS E 17	5.1E-03	5.6E-05	3.3E-04	6.8E-03	1.0E-02	3.1E-03	2.6E-02
SS E 18	1.0E-02	8.0E-05	4.7E-04	1.3E-02	2.5E-02	6.6E-03	5.5E-02
SS E 19	1.8E-02	8.1E-05	4.8E-04	9.8E-03	2.0E-02	8.3E-03	5.7E-02
SS E 20	8.7E-03	7.2E-05	4.2E-04	3.6E-03	1.9E-02	6.8E-03	3.8E-02
SS E 21	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.0E-02	5.6E-03	3.8E-02
SS E 22	1.7E-02	7.5E-05	4.4E-04	2.3E-03	2.6E-02	6.1E-03	5.2E-02
SS E 23	3.5E-02	7.5E-05	4.4E-04	2.1E-03	3.3E-02	6.5E-03	7.6E-02
SS E 24	9.9E-02	7.5E-05	4.4E-04	1.5E-03	3.4E-02	5.6E-03	1.4E-01
SS E 25	1.8E-02	7.5E-05	4.4E-04	1.9E-03	2.0E-02	7.8E-03	4.8E-02
SS F 9	1.9E-02	7.5E-05	4.4E-04	5.1E-03	2.2E-02	5.1E-03	5.2E-02
SS F 10	9.5E-03	7.3E-05	4.3E-04	5.5E-03	1.5E-02	5.1E-03	3.5E-02
SS F 11	6.5E-03	5.9E-05	3.5E-04	1.1E-02	1.2E-02	4.6E-03	3.5E-02
SS F 12	8.8E-03	6.3E-05	3.7E-04	1.3E-02	1.7E-02	5.2E-03	4.4E-02
SS F 13	9.1E-03	7.0E-05	4.1E-04	1.2E-02	1.8E-02	5.1E-03	4.5E-02
SS F 14	4.0E-03	5.0E-05	2.9E-04	7.1E-03	8.3E-03	3.2E-03	2.3E-02
SS F 15	6.2E-03	5.1E-05	3.0E-04	8.4E-03	1.1E-02	3.8E-03	3.0E-02
SS F 16	4.9E-03	5.5E-05	3.2E-04	7.9E-03	8.8E-03	3.3E-03	2.5E-02
SS F 17	5.8E-03	6.5E-05	3.8E-04	1.1E-02	2.3E-02	4.9E-03	4.6E-02
SS F 18	1.1E-02	6.7E-05	3.9E-04	1.4E-02	1.7E-02	5.5E-03	4.8E-02
SS F 19	1.0E-02	6.7E-05	3.9E-04	1.9E-03	1.9E-02	5.3E-03	3.7E-02
SS F 20	1.3E-02	7.5E-05	4.4E-04	1.6E-03	2.4E-02	8.5E-03	4.7E-02
SS F 21	3.6E-02	7.5E-05	4.4E-04	2.3E-03	2.5E-02	6.3E-03	7.0E-02
SS F 22	1.6E-01	7.5E-05	4.4E-04	2.4E-03	4.8E-02	4.9E-03	2.2E-01
SS F 23	1.5E-02	7.5E-05	4.4E-04	2.0E-03	2.3E-02	9.6E-03	5.0E-02
SS F 24	9.8E-03	7.5E-05	4.4E-04	2.9E-03	1.8E-02	6.0E-03	3.7E-02
SS F 25	1.4E-02	7.5E-05	4.4E-04	3.4E-03	2.0E-02	5.6E-03	4.3E-02
SS G 9	1.7E-02	7.5E-05	4.4E-04	2.4E-03	2.9E-02	6.0E-03	5.5E-02
SS G 10	1.0E-02	7.4E-05	4.4E-04	9.3E-03	1.6E-02	5.3E-03	4.2E-02
SS G 11	1.1E-02	6.2E-05	3.6E-04	1.4E-02	1.5E-02	5.0E-03	4.5E-02
SS G 12	6.8E-03	6.8E-05	4.0E-04	1.2E-02	1.7E-02	4.8E-03	4.1E-02
SS G 13	6.7E-03	6.7E-05	4.0E-04	1.3E-02	1.1E-02	7.2E-03	3.8E-02
SS G 14	6.6E-03	5.5E-05	3.2E-04	6.4E-03	1.3E-02	4.1E-03	3.0E-02
SS G 15	5.5E-03	5.5E-05	3.2E-04	9.6E-03	1.4E-02	3.9E-03	3.3E-02
SS G 16	7.2E-03	6.5E-05	3.8E-04	1.0E-02	1.4E-02	4.2E-03	3.6E-02
SS G 17	8.0E-03	7.2E-05	4.3E-04	9.9E-03	1.5E-02	4.7E-03	3.8E-02
SS G 18	2.7E-02	8.7E-05	5.1E-04	3.9E-03	2.2E-02	7.5E-03	6.1E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(3) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS G 19	3.8E-02	7.4E-05	4.3E-04	2.0E-03	2.9E-02	7.3E-03	7.7E-02
SS G 20	4.9E-02	7.5E-05	4.4E-04	1.6E-03	3.5E-02	6.0E-03	9.2E-02
SS G 21	6.9E-02	7.5E-05	4.4E-04	2.3E-03	3.1E-02	7.0E-03	1.1E-01
SS G 22	1.2E-02	7.5E-05	4.4E-04	1.8E-03	2.0E-02	6.5E-03	4.1E-02
SS G 23	3.0E-03	7.5E-05	4.4E-04	1.3E-03	1.8E-02	8.0E-03	3.0E-02
SS G 24	6.8E-03	7.5E-05	4.4E-04	1.5E-03	2.2E-02	6.6E-03	3.8E-02
SS G 25	8.3E-03	7.5E-05	4.4E-04	1.5E-03	1.9E-02	7.4E-03	3.7E-02
SS G 26	1.3E-02	7.5E-05	4.4E-04	3.1E-03	2.1E-02	5.9E-03	4.3E-02
SS G 27	2.2E-02	7.5E-05	4.4E-04	2.5E-03	1.9E-02	5.9E-03	5.0E-02
SS G 28	1.6E-02	1.1E-03	3.1E-04	4.4E-03	1.5E-02	3.8E-03	4.2E-02
SS G 29	1.6E-02	1.0E-03	2.9E-04	4.7E-03	1.5E-02	3.5E-03	4.0E-02
SS G 30	1.2E-02	1.0E-03	2.9E-04	5.2E-03	1.5E-02	4.1E-03	3.7E-02
SS G 31	1.9E-02	1.2E-03	3.5E-04	3.3E-03	2.0E-02	3.9E-03	4.8E-02
SS G 32	2.5E-02	6.5E-05	3.8E-04	1.7E-03	3.4E-02	5.5E-03	6.6E-02
SS G 33	2.4E-02	1.5E-03	4.4E-04	1.9E-03	2.9E-02	5.6E-03	6.2E-02
SS G 34	2.0E-02	7.5E-05	4.4E-04	2.1E-03	4.6E-02	4.5E-03	7.3E-02
SS G 35	1.5E-02	7.5E-05	4.4E-04	2.4E-03	4.6E-02	3.4E-03	6.8E-02
SS G 36	2.4E-02	7.5E-05	4.4E-04	2.5E-03	4.1E-02	4.8E-03	7.3E-02
SS H 9	6.8E-03	7.5E-05	4.4E-04	2.8E-03	2.3E-02	5.4E-03	3.9E-02
SS H 10	1.2E-02	6.6E-05	3.9E-04	1.1E-02	1.7E-02	5.2E-03	4.5E-02
SS H 11	4.7E-03	5.8E-05	3.4E-04	1.3E-02	1.3E-02	4.0E-03	3.5E-02
SS H 12	5.4E-03	6.0E-05	3.5E-04	1.2E-02	1.2E-02	4.3E-03	3.4E-02
SS H 13	6.1E-03	5.5E-05	3.3E-04	1.1E-02	1.2E-02	4.5E-03	3.4E-02
SS H 14	6.1E-03	5.5E-05	3.3E-04	7.7E-03	1.0E-02	3.7E-03	2.8E-02
SS H 15	9.6E-03	5.6E-05	3.3E-04	1.3E-02	1.5E-02	4.5E-03	4.3E-02
SS H 16	8.3E-03	6.9E-05	4.1E-04	3.4E-03	1.7E-02	5.6E-03	3.5E-02
SS H 17	9.2E-03	6.6E-05	3.9E-04	2.2E-03	1.9E-02	5.9E-03	3.6E-02
SS H 18	8.9E-03	8.1E-05	4.7E-04	1.9E-03	2.4E-02	7.0E-03	4.2E-02
SS H 19	7.5E-03	7.5E-05	4.4E-04	1.8E-03	2.2E-02	1.0E-02	4.2E-02
SS H 20	3.8E-02	7.5E-05	4.4E-04	1.9E-03	2.9E-02	5.9E-03	7.6E-02
SS H 21	1.4E-02	7.5E-05	4.4E-04	1.9E-03	2.4E-02	8.2E-03	4.9E-02
SS H 22	1.3E-02	7.5E-05	4.4E-04	3.4E-03	2.2E-02	8.4E-03	4.7E-02
SS H 23	1.1E-02	7.5E-05	4.4E-04	1.7E-02	1.7E-02	5.9E-03	5.1E-02
SS H 24	6.2E-03	7.8E-05	4.6E-04	9.1E-04	2.7E-02	7.1E-03	4.2E-02
SS H 25	6.1E-03	1.0E-04	6.0E-04	1.7E-03	3.3E-02	1.4E-02	5.6E-02
SS H 26	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.2E-02	6.1E-03	4.2E-02
SS H 27	8.5E-03	7.1E-05	4.2E-04	2.5E-03	2.1E-02	5.1E-03	3.7E-02
SS H 28	1.6E-02	1.0E-03	2.9E-04	4.1E-03	1.5E-02	3.0E-03	3.9E-02
SS H 29	1.8E-02	5.0E-05	2.9E-04	3.3E-03	1.5E-02	2.9E-03	3.9E-02
SS H 30	1.6E-02	1.1E-03	3.1E-04	3.3E-03	1.5E-02	3.8E-03	4.0E-02
SS H 31	2.7E-02	1.4E-03	4.0E-04	1.8E-03	2.8E-02	5.4E-03	6.4E-02
SS H 32	1.9E-02	7.5E-05	4.4E-04	1.5E-03	2.7E-02	1.1E-02	6.0E-02
SS H 33	1.2E-02	1.5E-03	4.4E-04	1.9E-03	2.5E-02	6.9E-03	4.8E-02
SS H 34	3.7E-02	7.3E-05	4.3E-04	2.0E-03	3.6E-02	6.2E-03	8.2E-02
SS H 35	2.0E-02	7.5E-05	4.4E-04	5.5E-03	2.6E-02	5.2E-03	5.6E-02
SS H 36	1.7E-02	7.3E-05	4.3E-04	1.3E-02	2.5E-02	5.8E-03	6.1E-02
SS I 8	2.1E-02	9.0E-05	5.3E-04	4.5E-03	3.6E-02	6.3E-03	6.8E-02
SS I 9	1.7E-02	6.9E-05	4.0E-04	7.2E-03	1.7E-02	5.0E-03	4.7E-02
SS I 10	6.9E-03	5.3E-05	3.1E-04	1.2E-02	1.3E-02	3.8E-03	3.6E-02
SS I 11	5.5E-03	5.5E-05	3.2E-04	1.0E-02	9.4E-03	4.1E-03	3.0E-02
SS I 12	7.2E-03	5.1E-05	3.0E-04	9.3E-03	1.2E-02	4.4E-03	3.3E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment**

(4)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS I 13	6.4E-03	5.3E-05	3.1E-04	9.7E-03	1.0E-02	3.8E-03	3.0E-02
SS I 14	7.9E-03	6.6E-05	3.9E-04	6.3E-03	1.5E-02	5.1E-03	3.4E-02
SS I 15	5.8E-03	6.5E-05	3.8E-04	3.4E-03	2.1E-02	4.1E-03	3.5E-02
SS I 16	8.2E-03	1.5E-03	4.4E-04	2.6E-03	1.9E-02	6.4E-03	3.8E-02
SS I 17	6.8E-03	1.5E-03	4.4E-04	2.8E-03	2.3E-02	6.5E-03	4.1E-02
SS I 18	2.9E-03	7.3E-05	4.3E-04	2.1E-03	2.2E-02	6.9E-03	3.4E-02
SS I 19	8.5E-03	7.1E-05	4.2E-04	1.5E-03	1.9E-02	6.0E-03	3.5E-02
SS I 20	6.0E-03	7.5E-05	4.4E-04	2.6E-03	2.1E-02	1.1E-02	4.1E-02
SS I 21	4.5E-03	7.5E-05	4.4E-04	2.5E-03	2.4E-02	6.9E-03	3.8E-02
SS I 22	5.3E-03	7.5E-05	4.4E-04	1.0E-02	2.1E-02	6.4E-03	4.4E-02
SS I 23	4.5E-03	7.5E-05	4.4E-04	1.0E-03	2.1E-02	6.4E-03	3.3E-02
SS I 24	3.0E-03	7.4E-05	4.4E-04	7.4E-04	1.6E-02	5.2E-03	2.5E-02
SS I 25	6.1E-03	6.1E-05	3.6E-04	1.1E-03	1.6E-02	6.6E-03	3.0E-02
SS I 26	7.0E-03	6.4E-05	3.8E-04	1.8E-03	1.9E-02	5.9E-03	3.4E-02
SS I 27	1.7E-02	6.0E-05	3.5E-04	4.3E-03	1.7E-02	4.1E-03	4.3E-02
SS I 28	1.4E-02	5.3E-05	3.1E-04	4.8E-03	1.8E-02	3.8E-03	4.1E-02
SS I 29	1.2E-02	5.1E-05	3.0E-04	3.4E-03	2.3E-02	3.2E-03	4.3E-02
SS I 30	2.3E-02	6.9E-05	4.1E-04	2.9E-03	2.5E-02	5.9E-03	5.7E-02
SS I 31	1.3E-02	7.5E-05	4.4E-04	1.9E-03	5.2E-02	7.0E-03	7.4E-02
SS I 32	5.3E-03	1.5E-03	4.4E-04	2.0E-03	1.7E-02	2.3E-02	5.0E-02
SS I 33	1.8E-02	1.5E-03	4.4E-04	2.6E-03	3.3E-02	7.9E-03	6.3E-02
SS I 34	1.0E-02	7.5E-05	4.4E-04	2.4E-03	2.4E-02	5.2E-03	4.3E-02
SS I 35	8.1E-03	6.2E-05	3.7E-04	8.1E-03	2.0E-02	5.4E-03	4.2E-02
SS I 36	1.1E-02	6.3E-05	3.7E-04	1.1E-02	2.2E-02	4.6E-03	4.9E-02
SS J 7	4.4E-03	1.5E-03	4.4E-04	3.1E-03	2.5E-02	6.3E-03	4.0E-02
SS J 8	3.8E-03	6.3E-05	3.7E-04	4.1E-03	1.6E-02	5.0E-03	2.9E-02
SS J 9	7.7E-03	1.0E-03	3.0E-04	1.5E-02	1.2E-02	4.3E-03	4.0E-02
SS J 10	7.3E-03	1.3E-03	3.9E-04	1.2E-02	1.4E-02	4.7E-03	4.0E-02
SS J 11	8.1E-03	6.3E-05	3.7E-04	1.4E-02	1.4E-02	4.5E-03	4.2E-02
SS J 12	6.7E-03	5.1E-05	3.0E-04	1.0E-02	1.1E-02	3.8E-03	3.3E-02
SS J 13	9.3E-03	5.8E-05	3.4E-04	6.1E-03	1.3E-02	3.6E-03	3.2E-02
SS J 14	6.0E-03	7.5E-05	4.4E-04	2.0E-03	2.4E-02	4.9E-03	3.7E-02
SS J 15	5.3E-03	1.5E-03	4.4E-04	1.6E-03	2.1E-02	5.7E-03	3.5E-02
SS J 16	7.5E-03	7.5E-05	4.4E-04	2.0E-03	2.1E-02	5.2E-03	3.7E-02
SS J 17	3.0E-03	1.5E-03	4.4E-04	2.0E-03	1.8E-02	6.1E-03	3.1E-02
SS J 18	1.1E-03	7.4E-05	4.4E-04	1.4E-03	1.6E-02	4.7E-03	2.4E-02
SS J 19	8.9E-03	7.4E-05	4.4E-04	2.4E-03	2.2E-02	5.9E-03	4.0E-02
SS J 20	3.3E-03	6.6E-05	3.9E-04	1.5E-03	2.0E-02	5.6E-03	3.1E-02
SS J 21	7.4E-03	1.5E-03	4.3E-04	1.8E-03	2.1E-02	6.0E-03	3.9E-02
SS J 22	4.5E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.3E-03	2.9E-02
SS J 23	3.4E-03	6.9E-05	4.0E-04	1.3E-03	1.4E-02	4.3E-03	2.4E-02
SS J 24	4.1E-03	5.9E-05	3.5E-04	1.2E-03	1.4E-02	4.2E-03	2.4E-02
SS J 25	5.8E-03	1.1E-03	3.1E-04	1.3E-03	1.8E-02	4.1E-03	3.0E-02
SS J 26	9.8E-03	1.1E-03	3.2E-04	3.5E-03	1.6E-02	4.0E-03	3.5E-02
SS J 27	1.6E-02	5.0E-05	2.9E-04	3.0E-03	1.5E-02	2.7E-03	3.7E-02
SS J 28	8.0E-03	1.1E-03	3.1E-04	3.5E-03	2.2E-02	4.5E-03	3.9E-02
SS J 29	1.5E-02	1.6E-03	4.7E-04	2.9E-03	2.8E-02	7.2E-03	5.6E-02
SS J 30	1.1E-02	8.0E-05	4.7E-04	1.2E-03	3.4E-02	7.5E-03	5.5E-02
SS J 31	7.7E-02	7.5E-05	4.4E-04	1.5E-03	4.5E-01	5.3E-03	5.3E-01
SS J 32	1.2E-02	1.5E-03	4.4E-04	2.4E-03	3.2E-02	6.7E-03	5.5E-02
SS J 33	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.6E-02	7.0E-03	4.6E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(5) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS J 34	1.4E-02	7.5E-05	4.4E-04	1.4E-02	2.5E-02	5.7E-03	6.0E-02
SS J 35	1.5E-02	7.5E-05	4.4E-04	1.0E-02	2.7E-02	5.8E-03	5.8E-02
SS J 36	1.3E-02	1.6E-03	4.8E-04	1.3E-02	2.8E-02	6.9E-03	6.3E-02
SS K 06	5.8E-03	7.5E-05	4.4E-04	1.9E-03	1.4E-02	5.0E-03	2.8E-02
SS K 07	4.2E-03	6.6E-05	3.9E-04	1.6E-03	1.6E-02	3.9E-03	2.6E-02
SS K 08	7.6E-03	5.9E-05	3.5E-04	1.1E-02	1.1E-02	7.2E-03	3.8E-02
SS K 09	1.1E-03	5.1E-05	3.0E-04	1.1E-02	1.0E-02	5.6E-03	2.9E-02
SS K 10	1.7E-03	6.1E-05	3.6E-04	1.4E-02	1.2E-02	5.0E-03	3.3E-02
SS K 11	3.1E-03	5.1E-05	3.0E-04	1.2E-02	8.9E-03	4.1E-03	2.9E-02
SS K 12	3.0E-03	5.2E-05	3.1E-04	6.8E-03	1.2E-02	6.2E-03	2.8E-02
SS K 13	9.4E-03	6.9E-05	4.1E-04	1.1E-03	1.3E-02	5.4E-03	3.0E-02
SS K 14	4.6E-03	7.5E-05	4.4E-04	1.2E-03	1.5E-02	6.1E-03	2.8E-02
SS K 15	1.7E-03	7.5E-05	4.4E-04	1.3E-03	1.3E-02	6.2E-03	2.3E-02
SS K 16	3.8E-04	7.5E-05	4.4E-04	6.5E-03	3.8E-02	9.0E-03	5.4E-02
SS K 17	4.0E-03	7.5E-05	4.4E-04	1.3E-03	1.8E-02	6.4E-03	3.0E-02
SS K 18	1.7E-02	7.5E-05	4.4E-04	1.4E-03	2.3E-02	9.2E-03	5.1E-02
SS K 19	1.7E-03	6.4E-05	3.8E-04	1.3E-03	1.3E-02	4.7E-03	2.1E-02
SS K 20	1.2E-03	5.1E-05	3.0E-04	7.8E-04	9.6E-03	3.6E-03	1.6E-02
SS K 21	2.8E-03	6.0E-05	3.6E-04	4.3E-04	9.4E-03	3.7E-03	1.7E-02
SS K 22	2.2E-03	9.5E-05	5.6E-04	1.5E-03	2.7E-02	5.4E-03	3.6E-02
SS K 23	1.8E-03	5.0E-05	2.9E-04	6.8E-04	1.4E-02	3.7E-03	2.1E-02
SS K 24	3.6E-03	5.0E-05	2.9E-04	1.2E-03	1.2E-02	3.6E-03	2.1E-02
SS K 25	4.3E-03	5.4E-05	3.2E-04	1.8E-03	1.4E-02	3.8E-03	2.4E-02
SS K 26	1.0E-02	5.6E-05	3.3E-04	3.0E-03	1.4E-02	3.7E-03	3.1E-02
SS K 27	7.9E-03	5.0E-05	2.9E-04	2.4E-03	1.4E-02	3.4E-03	2.8E-02
SS K 28	1.3E-02	5.7E-05	3.3E-04	1.3E-03	1.5E-02	4.2E-03	3.4E-02
SS K 29	2.1E-02	8.8E-05	5.2E-04	1.2E-03	2.6E-02	7.1E-03	5.6E-02
SS K 30	1.2E-01	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.2E-03	1.5E-01
SS K 31	8.3E-03	7.5E-05	4.4E-04	5.9E-03	3.0E-02	6.0E-03	5.1E-02
SS K 32	9.4E-03	7.5E-05	4.4E-04	2.0E-03	1.7E-02	7.2E-03	3.7E-02
SS K 33	9.0E-03	7.5E-05	4.4E-04	1.2E-02	2.0E-02	5.0E-03	4.7E-02
SS K 34	8.9E-03	7.5E-05	4.4E-04	1.1E-02	4.0E-02	6.4E-03	6.7E-02
SS K 35	7.8E-03	8.3E-05	4.9E-04	1.8E-02	2.1E-02	8.8E-03	5.6E-02
SS K 36	1.0E-02	4.2E-03	7.8E-04	6.2E-03	1.3E-01	3.0E-02	1.9E-01
SS L 05	4.7E-03	7.5E-05	4.4E-04	3.0E-03	1.7E-02	5.3E-03	3.1E-02
SS L 06	3.6E-04	7.1E-05	4.2E-04	3.0E-03	1.6E-02	4.7E-03	2.5E-02
SS L 07	3.8E-03	5.0E-05	2.9E-04	2.6E-03	1.8E-02	4.3E-03	2.9E-02
SS L 08	3.2E-03	5.5E-05	3.2E-04	1.2E-02	1.1E-02	3.9E-03	3.0E-02
SS L 09	5.7E-03	5.0E-05	2.9E-04	1.1E-02	6.5E-03	4.0E-03	2.7E-02
SS L 10	2.5E-04	5.1E-05	3.0E-04	1.1E-02	9.4E-03	4.0E-03	2.5E-02
SS L 11	5.4E-03	5.3E-05	3.1E-04	5.9E-03	9.2E-03	3.8E-03	2.5E-02
SS L 12	3.9E-03	7.4E-05	4.4E-04	3.2E-03	1.8E-02	6.3E-03	3.2E-02
SS L 13	3.0E-03	7.5E-05	4.4E-04	1.7E-03	1.5E-02	5.6E-03	2.6E-02
SS L 14	1.2E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.4E-03	2.6E-02
SS L 15	9.0E-03	7.5E-05	4.4E-04	1.3E-03	1.7E-02	6.3E-03	3.4E-02
SS L 16	1.6E-03	7.5E-05	4.4E-04	9.0E-04	1.3E-02	4.7E-03	2.0E-02
SS L 17	5.7E-03	1.7E-03	4.0E-04	1.0E-03	1.6E-02	4.6E-03	3.0E-02
SS L 18	1.9E-03	5.0E-05	2.9E-04	1.0E-03	1.3E-02	3.7E-03	2.0E-02
SS L 19	2.5E-03	5.0E-05	2.9E-04	5.7E-04	1.1E-02	3.4E-03	1.8E-02
SS L 20	1.0E-03	5.1E-05	3.0E-04	7.4E-04	1.5E-02	4.4E-03	2.1E-02
SS L 21	2.9E-03	5.2E-05	3.1E-04	1.4E-03	5.2E-02	3.2E-03	5.9E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment**

(6)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS L 22	4.0E-03	5.4E-05	3.2E-04	1.4E-03	1.4E-02	4.2E-03	2.4E-02
SS L 23	8.2E-03	7.5E-05	4.4E-04	1.2E-03	2.1E-02	5.0E-03	3.6E-02
SS L 24	3.7E-03	5.0E-05	3.0E-04	1.8E-03	1.4E-02	3.3E-03	2.3E-02
SS L 25	5.0E-03	5.4E-05	3.2E-04	2.3E-03	1.6E-02	3.6E-03	2.7E-02
SS L 26	1.2E-02	5.0E-05	3.0E-04	1.9E-03	1.8E-02	3.3E-03	3.6E-02
SS L 27	7.8E-03	5.9E-05	3.5E-04	1.8E-03	2.5E-02	4.9E-03	4.0E-02
SS L 28	8.4E-03	7.2E-05	4.2E-04	1.2E-03	2.3E-02	6.0E-03	3.9E-02
SS L 29	4.1E-02	6.8E-05	4.0E-04	6.9E-04	2.8E-01	3.1E-02	3.6E-01
SS L 30	5.2E-03	7.4E-05	4.4E-04	1.0E-03	2.1E-02	7.1E-03	3.4E-02
SS L 31	1.0E-02	7.5E-05	4.4E-04	6.7E-03	4.7E-02	6.1E-03	7.1E-02
SS L 32	3.4E-03	7.0E-05	4.1E-04	3.4E-03	2.5E-02	5.4E-03	3.8E-02
SS L 33	1.1E-02	7.4E-05	4.3E-04	3.1E-03	3.0E-02	5.5E-03	5.0E-02
SS L 34	8.2E-03	7.4E-05	4.3E-04	4.4E-03	2.7E-02	6.3E-03	4.6E-02
SS L 35	7.7E-03	9.4E-03	6.7E-04	3.6E-03	3.8E-01	5.2E-02	4.5E-01
SS L 36	4.3E-03	2.5E-03	6.5E-04	2.1E-03	6.8E-02	1.4E-02	9.1E-02
SS M 04	5.7E-03	7.5E-05	4.4E-04	1.1E-03	1.8E-02	4.9E-03	3.0E-02
SS M 05	4.0E-03	7.1E-05	4.2E-04	1.7E-03	1.8E-02	5.2E-03	2.9E-02
SS M 06	9.6E-03	6.5E-05	3.8E-04	1.6E-03	1.9E-02	6.0E-03	3.7E-02
SS M 07	3.1E-03	5.5E-05	3.2E-04	1.8E-03	1.7E-02	4.8E-03	2.7E-02
SS M 08	3.8E-03	5.2E-05	3.1E-04	1.4E-02	9.4E-03	4.1E-03	3.2E-02
SS M 09	3.1E-03	5.3E-05	3.1E-04	1.5E-02	9.0E-03	4.5E-03	3.2E-02
SS M 10	8.0E-03	5.1E-05	3.0E-04	6.5E-03	1.0E-02	3.7E-03	2.9E-02
SS M 11	2.1E-03	5.5E-05	3.2E-04	1.1E-03	1.1E-02	4.6E-03	1.9E-02
SS M 12	9.8E-03	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.6E-03	3.6E-02
SS M 13	3.0E-03	7.5E-05	4.4E-04	2.8E-03	1.8E-02	6.6E-03	3.1E-02
SS M 14	2.2E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	6.7E-03	3.1E-02
SS M 15	3.1E-03	7.5E-05	4.4E-04	1.2E-03	1.8E-02	6.4E-03	2.9E-02
SS M 16	4.2E-03	7.0E-05	4.1E-04	1.9E-03	1.3E-02	5.6E-03	2.5E-02
SS M 17	2.0E-03	5.0E-05	2.9E-04	7.0E-04	9.8E-03	3.8E-03	1.7E-02
SS M 18	3.1E-03	5.1E-05	3.0E-04	8.9E-04	1.2E-02	4.4E-03	2.1E-02
SS M 19	2.3E-03	5.0E-05	3.0E-04	8.6E-04	9.6E-03	3.6E-03	1.7E-02
SS M 20	5.4E-03	5.0E-05	2.9E-04	7.8E-04	1.0E-02	3.3E-03	2.0E-02
SS M 21	6.2E-03	5.2E-05	3.0E-04	1.0E-03	1.3E-02	4.5E-03	2.6E-02
SS M 22	5.6E-03	5.6E-05	3.3E-04	1.5E-03	1.8E-02	4.4E-03	3.0E-02
SS M 23	9.2E-03	5.0E-05	3.0E-04	1.4E-03	1.1E-02	3.1E-03	2.5E-02
SS M 24	5.5E-03	5.0E-05	2.9E-04	2.1E-03	1.3E-02	3.3E-03	2.4E-02
SS M 25	1.7E-02	5.7E-05	3.3E-04	1.1E-03	3.1E-02	8.0E-03	5.8E-02
SS M 26	1.5E-02	7.0E-05	4.1E-04	1.2E-03	1.6E-02	4.9E-03	3.8E-02
SS M 27	1.3E-02	7.3E-05	4.3E-04	1.9E-03	2.3E-02	1.1E-02	4.9E-02
SS M 28	4.2E-02	7.4E-05	4.3E-04	8.0E-04	2.1E-01	1.6E-02	2.7E-01
SS M 29	1.8E-02	4.5E-03	3.8E-04	1.4E-03	2.5E-01	4.6E-02	3.2E-01
SS M 30	2.0E-03	7.1E-05	4.2E-04	1.0E-03	1.9E-02	6.7E-03	2.9E-02
SS M 31	1.8E-02	7.5E-05	4.4E-04	3.9E-03	5.2E-02	5.7E-03	8.0E-02
SS M 32	1.7E-02	7.4E-05	4.3E-04	3.5E-03	7.5E-02	8.9E-03	1.1E-01
SS M 33	1.8E-02	3.5E-03	4.7E-04	2.8E-03	2.1E-01	4.5E-02	2.8E-01
SS M 34	1.4E-01	6.7E-02	6.9E-04	3.7E-03	3.6E+00	6.9E-01	4.5E+00
SS M 35	4.3E-02	1.3E-01	8.4E-04	3.3E-03	1.7E+01	1.4E+00	1.9E+01
SS M 36	1.0E-03	1.0E-04	5.9E-04	9.7E-04	6.2E-02	1.4E-02	7.8E-02
SS N 03	1.8E-02	7.5E-05	4.4E-04	1.6E-03	2.5E-02	5.0E-03	4.9E-02
SS N 04	4.6E-02	7.4E-05	4.3E-04	6.9E-04	3.0E-02	5.1E-03	8.2E-02
SS N 05	2.5E-03	8.8E-05	5.2E-04	2.7E-03	2.6E-02	1.2E-02	4.4E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(7) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS N 06	1.1E-03	5.6E-05	3.3E-04	2.3E-03	1.7E-02	4.5E-03	2.5E-02
SS N 07	5.4E-03	5.7E-05	3.4E-04	7.3E-03	1.2E-02	4.0E-03	2.9E-02
SS N 08	5.4E-03	5.2E-05	3.0E-04	1.3E-02	1.1E-02	4.2E-03	3.4E-02
SS N 09	4.0E-03	5.0E-05	2.9E-04	9.9E-03	1.6E-02	3.5E-03	3.3E-02
SS N 10	2.8E-03	5.0E-05	2.9E-04	2.9E-03	1.2E-02	3.5E-03	2.1E-02
SS N 11	1.2E-03	5.5E-05	3.2E-04	7.4E-04	1.5E-02	5.2E-03	2.3E-02
SS N 12	2.6E-03	7.5E-05	4.4E-04	5.9E-04	2.2E-02	6.6E-03	3.2E-02
SS N 13	3.4E-03	7.5E-05	4.4E-04	7.0E-04	2.5E-02	5.5E-03	3.5E-02
SS N 14	1.1E-03	7.5E-05	4.4E-04	1.1E-03	1.7E-02	6.4E-03	2.7E-02
SS N 15	2.9E-03	7.5E-05	4.4E-04	1.5E-03	1.4E-02	6.1E-03	2.5E-02
SS N 16	3.2E-03	6.7E-05	3.9E-04	7.2E-04	1.6E-02	5.4E-03	2.6E-02
SS N 17	6.9E-03	5.4E-05	3.1E-04	6.1E-04	2.0E-02	5.9E-03	3.4E-02
SS N 18	2.8E-03	5.1E-05	3.0E-04	9.3E-04	1.6E-02	6.1E-03	2.6E-02
SS N 19	3.2E-03	5.0E-05	2.9E-04	6.8E-04	1.6E-02	4.1E-03	2.4E-02
SS N 20	1.6E-02	5.2E-05	3.0E-04	5.6E-04	2.0E-02	4.5E-03	4.1E-02
SS N 21	7.3E-03	5.5E-05	3.2E-04	2.3E-03	2.2E-02	6.0E-03	3.9E-02
SS N 22	6.2E-03	5.3E-05	3.1E-04	1.7E-03	2.6E-02	6.4E-03	4.1E-02
SS N 23	8.6E-03	3.1E-03	3.5E-04	3.3E-03	9.2E-02	2.0E-02	1.3E-01
SS N 24	4.1E-02	9.3E-03	4.2E-04	1.8E-03	7.0E-01	9.6E-02	8.5E-01
SS N 25	1.4E-01	7.5E-05	4.4E-04	1.8E-03	7.9E-01	4.2E-02	9.7E-01
SS N 26	1.4E-01	3.7E-02	4.4E-04	1.2E-03	1.5E+00	4.0E-01	2.0E+00
SS N 27	2.4E-01	8.3E-03	4.4E-04	2.8E-03	2.1E+00	1.8E-01	2.5E+00
SS N 28	1.7E-01	2.2E-02	4.2E-04	6.0E-06	1.2E+00	2.2E-01	1.6E+00
SS N 29	1.1E-02	6.5E-05	3.8E-04	1.7E-03	5.2E-02	1.0E-02	7.5E-02
SS N 30	2.1E-01	1.6E-02	4.4E-04	3.4E-04	1.7E+00	2.5E-01	2.2E+00
SS N 31	2.5E-01	3.0E-02	4.4E-04	1.1E-03	2.0E+00	3.7E-01	2.6E+00
SS N 32	2.1E-01	9.6E-03	4.5E-04	1.2E-03	3.0E+00	2.3E-01	3.5E+00
SS N 33	1.1E-01	2.9E-02	6.2E-04	2.1E-03	3.2E+00	3.3E-01	3.7E+00
SS N 34	1.0E-02	5.4E-03	8.8E-04	5.2E-03	5.9E-01	7.2E-02	6.9E-01
SS N 35	5.8E-02	3.0E-02	8.7E-04	2.6E-03	2.6E+00	3.5E-01	3.0E+00
SS N 36	4.5E-03	1.2E-04	6.9E-04	2.9E-04	1.6E-01	2.2E-02	1.9E-01
SS O 02	2.1E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	5.6E-03	7.5E-02
SS O 03	2.5E-02	7.5E-05	4.4E-04	7.5E-04	4.7E-02	7.8E-03	8.1E-02
SS O 04	5.8E-03	6.8E-05	4.0E-04	1.6E-03	2.2E-02	5.3E-03	3.6E-02
SS O 05	5.2E-03	5.7E-05	3.4E-04	2.3E-03	2.0E-02	5.0E-03	3.3E-02
SS O 06	1.9E-03	5.5E-05	3.3E-04	3.2E-03	1.7E-02	3.9E-03	2.6E-02
SS O 07	8.2E-03	5.3E-05	3.1E-04	4.0E-03	2.1E-02	2.7E-03	3.7E-02
SS O 08	7.5E-03	5.2E-05	3.0E-04	1.1E-02	1.4E-02	4.4E-03	3.8E-02
SS O 09	1.9E-02	6.8E-05	4.0E-04	8.3E-03	1.8E-02	5.6E-03	5.1E-02
SS O 10	5.3E-03	6.3E-05	3.7E-04	8.9E-03	1.8E-02	6.4E-03	3.9E-02
SS O 11	2.2E-03	1.1E-04	6.3E-04	4.2E-03	8.6E-02	3.0E-02	1.2E-01
SS O 12	1.1E-03	8.2E-05	4.8E-04	2.5E-03	2.4E-02	1.2E-02	4.0E-02
SS O 13	2.3E-03	7.5E-05	4.4E-04	1.9E-03	2.6E-02	7.3E-03	3.8E-02
SS O 14	1.5E-03	7.5E-05	4.4E-04	1.4E-03	2.3E-02	7.4E-03	3.4E-02
SS O 15	3.7E-03	7.5E-05	4.4E-04	1.4E-03	3.9E-02	8.1E-03	5.2E-02
SS O 16	5.8E-03	6.7E-05	3.9E-04	1.5E-03	3.2E-02	5.6E-03	4.5E-02
SS O 17	5.0E-03	6.7E-05	4.0E-04	1.5E-03	3.1E-02	5.7E-03	4.3E-02
SS O 18	9.1E-03	6.0E-05	3.5E-04	1.5E-03	3.3E-02	5.6E-03	5.0E-02
SS O 19	1.6E-02	6.0E-05	3.5E-04	1.8E-03	5.0E-02	7.1E-03	7.5E-02
SS O 20	1.0E-02	5.3E-05	3.1E-04	1.9E-03	2.4E-02	5.0E-03	4.2E-02
SS O 21	4.9E-03	5.7E-05	3.4E-04	9.1E-04	3.3E-02	7.4E-03	4.6E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(8) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS O 22	2.3E-02	5.6E-05	3.3E-04	2.1E-03	3.0E-02	5.6E-03	6.1E-02
SS O 23	4.8E-02	6.1E-05	3.6E-04	9.3E-04	2.0E-02	6.0E-03	7.6E-02
SS O 24	5.2E-02	6.6E-05	3.9E-04	1.9E-03	2.8E-02	6.0E-03	8.9E-02
SS O 25	6.0E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	8.0E-03	1.2E-01
SS O 26	2.0E-01	7.5E-05	4.4E-04	1.8E-03	5.9E-02	6.8E-03	2.7E-01
SS O 27	1.4E-01	7.5E-05	4.4E-04	1.2E-03	1.8E-01	1.0E-02	3.3E-01
SS O 28	1.4E-01	2.2E-02	4.4E-04	1.4E-03	8.9E-01	2.4E-01	1.3E+00
SS O 29	1.6E-02	5.0E-02	4.1E-04	1.5E-03	2.4E+00	5.2E-01	3.0E+00
SS O 30	3.8E-01	1.9E-02	5.1E-04	1.5E-03	1.8E+00	2.1E-01	2.4E+00
SS O 31	1.0E-02	2.6E-03	5.5E-04	2.3E-03	8.7E-02	1.6E-02	1.2E-01
SS O 32	2.6E-02	1.4E-04	8.1E-04	2.7E-03	8.0E-02	1.6E-02	1.3E-01
SS O 33	5.3E-02	1.5E-04	8.7E-04	4.8E-03	1.2E-01	2.5E-02	2.1E-01
SS O 34	2.2E-02	1.4E-04	8.0E-04	3.3E-03	5.2E-01	3.9E-02	5.9E-01
SS O 35	2.3E-02	1.1E-04	6.5E-04	1.0E-03	5.5E-02	1.5E-02	9.5E-02
SS O 36	6.6E-03	9.6E-05	5.7E-04	4.3E-04	4.1E-02	1.2E-02	6.1E-02
SS P 01	5.7E-03	3.0E-04	4.4E-04	3.1E-03	2.3E-02	7.1E-03	4.0E-02
SS P 02	9.2E-03	7.5E-04	4.4E-04	8.7E-04	2.5E-02	6.9E-03	4.3E-02
SS P 03	2.5E-03	4.9E-04	3.6E-04	1.4E-03	1.6E-02	6.2E-03	2.7E-02
SS P 04	8.5E-03	2.4E-04	3.5E-04	2.6E-03	1.5E-02	4.7E-03	3.1E-02
SS P 05	3.6E-03	1.1E-04	3.2E-04	3.1E-03	1.3E-02	4.3E-03	2.4E-02
SS P 06	5.3E-03	2.1E-04	3.1E-04	5.0E-03	1.4E-02	5.1E-03	3.0E-02
SS P 07	4.4E-03	8.0E-04	2.9E-04	2.9E-03	1.6E-02	4.9E-03	3.0E-02
SS P 08	1.2E-02	3.4E-04	3.3E-04	3.7E-03	1.5E-02	4.8E-03	3.6E-02
SS P 09	1.3E-03	3.6E-04	3.5E-04	4.6E-04	1.5E-02	6.4E-03	2.4E-02
SS P 10	2.8E-03	1.6E-03	4.3E-04	1.8E-03	1.9E-02	8.3E-03	3.4E-02
SS P 11	2.1E-03	3.0E-04	4.4E-04	7.5E-04	1.4E-02	8.3E-03	2.6E-02
SS P 12	1.7E-03	6.0E-04	4.4E-04	1.2E-03	1.9E-02	7.6E-03	3.0E-02
SS P 13	3.3E-03	7.5E-04	4.4E-04	1.8E-03	2.0E-02	6.8E-03	3.3E-02
SS P 14	2.6E-02	1.5E-04	4.4E-04	1.9E-03	6.5E-02	8.8E-03	1.0E-01
SS P 15	5.5E-03	4.4E-04	4.3E-04	1.3E-03	2.5E-02	6.5E-03	3.9E-02
SS P 16	4.6E-03	1.3E-04	3.8E-04	1.0E-03	2.1E-02	5.7E-03	3.3E-02
SS P 17	2.0E-02	0.0E+00	3.8E-04	2.6E-03	4.5E-02	6.9E-03	7.4E-02
SS P 18	1.4E-02	1.1E-04	3.4E-04	2.9E-03	3.5E-02	6.6E-03	5.9E-02
SS P 19	1.6E-02	1.2E-04	3.7E-04	1.4E-03	4.1E-02	6.7E-03	6.5E-02
SS P 20	8.3E-03	3.8E-04	3.7E-04	8.4E-04	1.8E-02	6.4E-03	3.5E-02
SS P 21	1.2E-01	8.5E-03	4.1E-04	1.1E-03	1.5E+00	1.3E-01	1.7E+00
SS P 22	1.1E-02	1.7E-03	3.3E-04	9.5E-04	3.2E-02	6.9E-03	5.2E-02
SS P 23	1.8E-02	0.0E+00	3.7E-04	2.2E-03	2.3E-02	7.2E-03	5.1E-02
SS P 24	1.3E-02	5.5E-04	4.0E-04	1.8E-03	2.1E-02	6.9E-03	4.4E-02
SS P 25	3.5E-02	1.4E-04	4.1E-04	1.4E-03	3.2E-02	7.0E-03	7.5E-02
SS P 26	7.5E-02	5.1E-04	3.8E-04	2.5E-03	3.3E-02	7.1E-03	1.2E-01
SS P 27	4.6E-02	1.1E-04	3.2E-04	1.5E-03	5.2E-02	6.2E-03	1.1E-01
SS P 28	3.6E-02	1.0E-04	5.9E-04	7.6E-04	5.0E-01	1.7E-02	5.6E-01
SS P 29	3.2E-02	1.2E-04	7.1E-04	3.0E-03	1.0E+00	2.9E-02	1.1E+00
SS P 30	4.6E-02	1.2E-04	7.0E-04	5.0E-03	1.2E-01	1.5E-02	1.8E-01
SS P 31	5.2E-02	1.4E-04	8.3E-04	4.5E-03	8.2E-02	1.3E-02	1.5E-01
SS P 32	1.6E-01	1.5E-04	8.6E-04	4.4E-03	1.1E-01	1.4E-02	2.8E-01
SS P 33	1.3E-02	1.2E-04	7.1E-04	2.3E-03	1.2E-01	2.4E-02	1.6E-01
SS P 34	4.2E-05	8.3E-05	4.9E-04	3.7E-04	2.8E-02	8.0E-03	3.7E-02
SS P 35	1.3E-02	7.5E-05	4.4E-04	4.4E-04	2.5E-02	7.3E-03	4.6E-02
SS P 36	3.1E-03	7.4E-05	4.3E-04	8.5E-04	2.9E-02	7.7E-03	4.1E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(9) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS Q 01	9.3E-03	5.9E-04	4.3E-04	1.4E-03	2.7E-02	7.1E-03	4.6E-02
SS Q 02	3.5E-03	3.3E-04	3.3E-04	6.8E-04	1.8E-02	5.8E-03	2.8E-02
SS Q 03	3.7E-03	4.3E-04	3.1E-04	2.0E-03	1.6E-02	6.0E-03	2.8E-02
SS Q 04	3.3E-03	4.3E-04	3.1E-04	1.4E-03	1.5E-02	4.4E-03	2.5E-02
SS Q 05	3.7E-03	2.2E-04	3.3E-04	6.2E-03	1.3E-02	4.1E-03	2.8E-02
SS Q 06	7.2E-03	1.0E-04	3.0E-04	1.7E-03	1.2E-02	3.9E-03	2.5E-02
SS Q 07	5.3E-03	2.0E-04	2.9E-04	2.9E-03	1.3E-02	3.6E-03	2.5E-02
SS Q 08	6.0E-03	1.0E-04	3.1E-04	1.5E-03	1.3E-02	4.1E-03	2.5E-02
SS Q 09	4.9E-03	1.1E-04	3.2E-04	2.3E-03	1.3E-02	4.6E-03	2.5E-02
SS Q 10	1.8E-03	3.0E-04	4.4E-04	1.8E-03	1.8E-02	6.3E-03	2.9E-02
SS Q 11	2.9E-03	7.5E-04	4.4E-04	1.3E-03	2.2E-02	6.3E-03	3.3E-02
SS Q 12	3.8E-05	7.5E-04	4.4E-04	1.6E-03	1.4E-02	5.7E-03	2.3E-02
SS Q 13	1.7E-03	6.0E-04	4.4E-04	1.4E-03	2.3E-02	6.4E-03	3.4E-02
SS Q 14	1.2E-02	7.5E-04	4.4E-04	2.0E-03	4.7E-02	7.7E-03	7.0E-02
SS Q 15	6.8E-03	9.2E-04	3.9E-04	1.9E-03	2.2E-02	5.7E-03	3.8E-02
SS Q 16	1.7E-02	2.9E-04	4.2E-04	2.0E-03	3.8E-02	7.5E-03	6.5E-02
SS Q 17	1.6E-02	6.4E-04	3.8E-04	3.4E-03	4.8E-02	6.1E-03	7.5E-02
SS Q 18	1.7E-02	6.0E-04	4.4E-04	2.7E-03	4.6E-02	6.8E-03	7.3E-02
SS Q 19	1.0E-02	6.7E-04	3.9E-04	1.6E-03	3.2E-02	6.4E-03	5.1E-02
SS Q 20	5.9E-02	2.1E-03	4.3E-04	7.9E-04	6.2E-01	5.2E-02	7.3E-01
SS Q 21	2.8E-02	7.3E-04	4.3E-04	1.3E-03	3.8E-02	8.6E-03	7.7E-02
SS Q 22	5.1E-02	1.4E-04	4.2E-04	1.5E-03	3.3E-02	8.0E-03	9.4E-02
SS Q 23	2.3E-02	1.7E-03	4.5E-04	1.0E-03	9.0E-02	1.3E-02	1.3E-01
SS Q 24	2.9E-02	4.7E-04	4.6E-04	2.4E-03	1.2E-01	1.1E-02	1.7E-01
SS Q 25	1.6E-02	2.1E-04	3.1E-04	1.4E-03	4.8E-02	6.1E-03	7.1E-02
SS Q 26	1.6E-02	3.0E-04	2.9E-04	6.9E-04	3.2E-02	6.0E-03	5.5E-02
SS Q 27	6.7E-02	3.0E-04	2.9E-04	1.1E-03	2.7E-02	5.2E-03	1.0E-01
SS Q 28	2.4E-02	6.7E-05	3.9E-04	6.1E-04	3.9E-02	8.4E-03	7.2E-02
SS Q 29	1.1E-02	1.2E-03	3.6E-04	1.5E-03	4.6E-02	7.9E-03	6.7E-02
SS Q 30	9.6E-03	5.7E-05	3.4E-04	1.3E-03	3.1E-02	8.7E-03	5.1E-02
SS Q 31	9.4E-03	6.3E-05	3.7E-04	1.3E-03	3.3E-02	9.8E-03	5.4E-02
SS Q 32	5.3E-03	7.5E-04	4.4E-04	1.5E-03	3.6E-02	1.0E-02	5.4E-02
SS Q 33	3.6E-03	1.4E-03	4.6E-04	1.1E-03	2.5E-02	7.6E-03	3.9E-02
SS R 01	3.4E-03	6.2E-05	3.7E-04	9.0E-04	1.9E-02	5.3E-03	2.9E-02
SS R 02	2.5E-03	5.1E-05	3.0E-04	1.7E-03	1.5E-02	3.8E-03	2.3E-02
SS R 03	3.5E-03	5.0E-05	3.0E-04	1.5E-03	1.8E-02	5.0E-03	2.9E-02
SS R 04	3.9E-03	5.9E-05	3.5E-04	1.8E-03	2.4E-02	6.7E-03	3.7E-02
SS R 05	4.8E-03	6.5E-05	3.8E-04	2.5E-03	2.7E-02	7.2E-03	4.2E-02
SS R 06	7.6E-03	5.4E-05	3.2E-04	1.4E-03	1.9E-02	4.6E-03	3.3E-02
SS R 07	4.9E-03	5.2E-05	3.1E-04	2.9E-03	1.9E-02	5.1E-03	3.3E-02
SS R 08	6.0E-03	6.1E-05	3.6E-04	3.0E-03	2.1E-02	5.9E-03	3.6E-02
SS R 09	1.9E-03	6.7E-05	4.0E-04	1.4E-03	2.2E-02	7.1E-03	3.3E-02
SS R 10	3.1E-03	7.5E-05	4.4E-04	1.3E-03	2.2E-02	7.6E-03	3.4E-02
SS R 11	2.2E-03	7.5E-05	4.4E-04	1.8E-03	2.6E-02	7.2E-03	3.8E-02
SS R 12	1.1E-03	7.2E-05	4.3E-04	1.5E-03	1.9E-02	6.0E-03	2.8E-02
SS R 13	1.2E-03	7.1E-05	4.2E-04	1.5E-03	3.0E-02	6.8E-03	4.0E-02
SS R 14	1.6E-03	6.0E-03	4.3E-04	2.3E-03	3.9E-01	5.4E-02	4.6E-01
SS R 15	5.1E-03	2.1E-02	5.1E-04	1.8E-03	1.5E+00	2.1E-01	1.7E+00
SS R 16	1.4E-03	7.4E-03	3.9E-04	1.7E-03	4.9E-01	7.5E-02	5.8E-01
SS R 17	9.1E-03	6.5E-05	3.8E-04	9.5E-04	5.4E-02	8.1E-03	7.3E-02
SS R 18	1.0E-02	2.1E-03	4.2E-04	2.9E-03	1.2E-01	7.8E-04	1.4E-01

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(10) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS R 19	9.4E-03	7.5E-05	4.4E-04	1.3E-03	4.8E-02	9.4E-03	6.8E-02
SS R 20	1.7E-02	7.5E-05	4.4E-04	2.8E-03	4.8E-02	1.5E-02	8.3E-02
SS R 21	1.8E-02	7.5E-05	4.4E-04	4.9E-03	3.7E-02	9.0E-03	6.9E-02
SS R 22	2.7E-02	7.5E-05	4.4E-04	3.4E-03	6.2E-02	1.3E-02	1.1E-01
SS R 23	2.8E-02	7.3E-05	4.3E-04	1.2E-03	3.6E-02	8.6E-03	7.4E-02
SS R 24	3.6E-02	7.3E-05	4.3E-04	5.5E-04	2.4E-02	7.5E-03	6.9E-02
SS R 25	3.1E-01	3.1E-03	3.3E-04	8.9E-04	2.6E-02	6.0E-03	3.5E-01
SS R 26	8.0E-02	1.0E-03	2.9E-04	8.0E-04	2.2E-02	4.2E-03	1.1E-01
SS R 27	5.7E-02	5.3E-05	3.1E-04	9.3E-04	2.0E-02	6.0E-03	8.4E-02
SS R 28	3.4E-02	7.1E-05	4.2E-04	1.4E-03	4.0E-02	9.1E-03	8.4E-02
SS R 29	1.2E-02	5.0E-05	3.0E-04	1.3E-03	1.8E-02	4.6E-03	3.7E-02
SS R 30	1.5E-02	5.0E-05	2.9E-04	1.2E-03	2.3E-02	4.0E-03	4.4E-02
SS R 31	4.9E-03	5.8E-05	3.4E-04	9.1E-04	2.3E-02	7.0E-03	3.6E-02
SS R 32	5.4E-03	7.4E-05	4.4E-04	1.0E-03	4.5E-02	9.2E-03	6.1E-02
SS R 33	5.5E-03	7.5E-05	4.4E-04	9.6E-04	2.6E-02	6.7E-03	3.9E-02
SS S 01	6.1E-03	6.0E-05	3.5E-04	2.6E-03	1.5E-02	4.3E-03	2.8E-02
SS S 02	2.6E-03	5.6E-05	3.3E-04	2.7E-03	1.5E-02	3.9E-03	2.5E-02
SS S 03	3.6E-03	5.7E-05	3.4E-04	8.3E-04	1.5E-02	5.2E-03	2.5E-02
SS S 04	2.6E-03	5.3E-05	3.1E-04	3.5E-03	4.4E-02	6.5E-03	5.7E-02
SS S 05	3.9E-03	2.1E-03	3.2E-04	3.4E-03	6.5E-02	1.6E-02	9.1E-02
SS S 06	5.7E-03	3.8E-03	3.0E-04	2.5E-03	1.3E-01	3.1E-02	1.8E-01
SS S 07	7.4E-03	5.9E-03	3.3E-04	2.6E-03	3.0E-01	5.2E-02	3.7E-01
SS S 08	7.9E-03	4.0E-03	3.9E-04	3.4E-03	1.5E-01	3.1E-02	1.9E-01
SS S 09	1.9E-02	1.2E-02	4.1E-04	2.1E-03	6.3E-01	9.9E-02	7.7E-01
SS S 10	2.7E-02	1.2E-02	4.2E-04	1.7E-03	8.4E-01	1.2E-01	1.0E+00
SS S 11	1.4E-02	1.2E-02	4.0E-04	2.3E-03	5.4E-01	1.1E-01	6.7E-01
SS S 12	1.8E-02	9.3E-03	3.5E-04	1.9E-03	5.2E-01	8.6E-02	6.3E-01
SS S 13	4.5E-02	9.1E-03	3.8E-04	1.7E-03	6.7E-01	9.2E-02	8.2E-01
SS S 14	1.7E-02	5.7E-03	4.2E-04	2.3E-03	3.4E-01	5.1E-02	4.1E-01
SS S 15	5.6E-02	1.4E-02	3.7E-04	1.4E-03	9.6E-01	1.5E-01	1.2E+00
SS S 16	2.5E-02	6.7E-03	3.7E-04	1.7E-03	4.0E-01	6.8E-02	5.1E-01
SS S 17	5.9E-02	9.6E-03	4.0E-04	1.2E-03	8.8E-01	1.0E-01	1.0E+00
SS S 18	1.1E-02	4.1E-03	4.1E-04	2.6E-03	2.2E-01	3.4E-02	2.7E-01
SS S 19	8.4E-03	6.5E-05	3.8E-04	1.5E-03	2.7E-02	7.0E-03	4.4E-02
SS S 20	1.2E-02	6.7E-05	3.9E-04	3.2E-03	3.1E-02	7.0E-03	5.3E-02
SS S 21	4.0E-02	1.2E-03	4.4E-04	5.6E-04	1.6E-02	7.7E-03	6.6E-02
SS S 22	4.4E-02	1.1E-03	4.4E-04	2.7E-03	3.5E-02	1.1E-02	9.3E-02
SS S 23	5.6E-01	3.5E-03	4.4E-04	1.7E-03	2.5E-02	7.7E-03	6.0E-01
SS S 24	1.0E-01	1.0E-03	4.4E-04	1.4E-03	3.0E-02	7.1E-03	1.4E-01
SS S 25	8.8E-02	9.9E-04	3.6E-04	2.1E-03	2.4E-02	9.1E-03	1.2E-01
SS S 26	9.1E-02	1.0E-03	3.4E-04	8.3E-04	1.4E-02	5.2E-03	1.1E-01
SS S 27	8.8E-02	1.0E-03	3.8E-04	7.2E-04	2.4E-02	8.0E-03	1.2E-01
SS S 28	7.8E-03	1.2E-03	3.4E-04	2.2E-03	2.4E-02	6.5E-03	4.2E-02
SS S 29	3.0E-03	5.0E-05	2.9E-04	2.2E-03	1.7E-02	4.2E-03	2.7E-02
SS S 30	6.1E-03	1.2E-03	3.0E-04	1.5E-03	5.0E-02	8.5E-03	6.8E-02
SS S 31	9.1E-03	1.5E-03	3.9E-04	1.2E-03	9.6E-02	1.1E-02	1.2E-01
SS S 32	5.9E-03	7.5E-05	4.4E-04	8.0E-04	3.2E-02	1.1E-02	5.0E-02
SS S 33	1.5E-02	1.8E-03	4.4E-04	9.0E-04	3.3E-02	1.1E-02	6.3E-02
SS T 01	5.1E-03	1.2E-03	3.4E-04	2.5E-03	2.4E-02	7.0E-03	4.0E-02
SS T 02	4.7E-03	1.4E-03	3.9E-04	4.5E-03	3.4E-02	9.0E-03	5.4E-02
SS T 03	3.0E-03	1.6E-03	3.9E-04	5.3E-03	3.6E-02	1.2E-02	5.8E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(11) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS T 04	3.0E-03	1.2E-03	3.2E-04	3.8E-03	3.2E-02	9.8E-03	5.0E-02
SS T 05	1.5E-02	1.2E-02	3.6E-04	2.9E-03	5.7E-01	1.0E-01	7.0E-01
SS T 06	1.9E-02	8.1E-03	3.9E-04	1.9E-03	3.7E-01	6.7E-02	4.7E-01
SS T 07	1.8E-02	8.0E-03	4.2E-04	1.7E-03	3.0E-01	6.5E-02	3.9E-01
SS T 08	1.8E-02	5.0E-03	3.9E-04	1.0E-03	3.0E-01	4.5E-02	3.7E-01
SS T 09	4.0E-02	1.4E-02	4.2E-04	1.3E-03	7.4E-01	1.2E-01	9.2E-01
SS T 10	1.2E-02	1.3E-02	4.4E-04	1.6E-03	6.1E-01	1.1E-01	7.4E-01
SS T 11	1.5E-02	3.6E-03	4.1E-04	2.4E-03	2.0E-01	3.4E-02	2.6E-01
SS T 12	9.8E-03	7.2E-05	4.2E-04	1.3E-03	2.2E-02	7.4E-03	4.1E-02
SS T 13	8.1E-03	7.4E-05	4.4E-04	1.2E-03	2.1E-02	7.5E-03	3.8E-02
SS T 14	1.7E-02	7.2E-05	4.2E-04	1.1E-03	1.8E-02	7.1E-03	4.4E-02
SS T 15	1.6E-03	7.6E-05	4.5E-04	1.0E-03	1.4E-02	6.2E-03	2.4E-02
SS T 16	4.6E-03	9.2E-05	5.4E-04	1.3E-03	3.0E-02	1.3E-02	4.9E-02
SS T 17	6.3E-03	6.8E-05	4.0E-04	5.2E-04	1.7E-02	7.1E-03	3.1E-02
SS T 18	1.7E-02	6.9E-05	4.1E-04	1.1E-03	2.2E-02	7.4E-03	4.8E-02
SS T 19	1.0E-02	2.0E-03	4.0E-04	1.3E-03	1.4E-01	2.0E-02	1.8E-01
SS T 20	1.1E-02	1.6E-03	3.6E-04	1.2E-03	1.3E-01	1.7E-02	1.7E-01
SS T 21	3.9E-02	6.9E-05	4.1E-04	1.6E-03	1.4E-01	2.3E-02	2.1E-01
SS T 22	7.9E-02	7.4E-05	4.3E-04	1.2E-03	1.5E-02	6.1E-03	1.0E-01
SS T 23	2.6E-01	7.4E-05	4.4E-04	8.5E-04	1.4E-02	5.5E-03	2.8E-01
SS T 24	5.1E-01	3.3E-03	4.4E-04	2.0E-03	2.3E-02	8.1E-03	5.4E-01
SS T 25	2.0E-02	7.5E-05	4.4E-04	1.4E-03	1.8E-02	7.7E-03	4.8E-02
SS T 26	4.3E-02	7.1E-05	4.2E-04	7.6E-04	1.4E-02	5.8E-03	6.4E-02
SS T 27	2.3E-02	7.1E-05	4.2E-04	1.4E-03	2.9E-02	8.5E-03	6.3E-02
SS T 28	5.7E-03	6.1E-05	3.6E-04	3.3E-03	1.5E-02	5.0E-03	2.9E-02
SS T 29	5.3E-03	5.0E-05	2.9E-04	1.8E-03	1.5E-02	4.1E-03	2.7E-02
SS T 30	6.8E-03	5.6E-05	3.3E-04	1.4E-03	2.1E-02	5.7E-03	3.5E-02
SS T 31	8.7E-03	7.5E-05	4.4E-04	1.0E-03	2.8E-02	8.7E-03	4.7E-02
SS T 32	2.4E-02	6.2E-03	4.4E-04	7.9E-04	3.5E-01	7.0E-02	4.5E-01
SS T 33	6.3E-02	7.5E-05	4.4E-04	5.2E-04	2.7E-02	1.0E-02	1.0E-01
SS U 01	1.7E-03	6.1E-05	3.6E-04	1.7E-03	2.8E-02	6.1E-03	3.8E-02
SS U 02	4.4E-03	2.8E-03	3.3E-04	2.7E-03	1.2E-01	2.6E-02	1.5E-01
SS U 03	6.7E-03	3.6E-03	3.5E-04	2.4E-03	1.5E-01	3.2E-02	2.0E-01
SS U 04	1.1E-02	4.4E-03	3.9E-04	1.8E-03	1.8E-01	4.6E-02	2.4E-01
SS U 05	9.3E-03	5.7E-03	4.0E-04	2.2E-03	2.4E-01	5.4E-02	3.1E-01
SS U 06	1.8E-03	6.0E-05	3.5E-04	1.1E-03	3.2E-02	9.1E-03	4.5E-02
SS U 07	1.1E-02	7.8E-05	4.6E-04	2.0E-03	3.0E-02	1.3E-02	5.7E-02
SS U 08	8.5E-03	7.6E-05	4.5E-04	2.0E-03	1.7E-02	5.3E-03	3.3E-02
SS U 09	2.1E-02	7.5E-05	4.4E-04	2.5E-03	2.4E-02	1.0E-02	5.8E-02
SS U 10	3.0E-02	7.5E-05	4.4E-04	2.1E-03	3.3E-02	1.2E-02	7.7E-02
SS U 11	2.4E-02	7.5E-05	4.4E-04	2.0E-03	3.0E-02	1.1E-02	6.8E-02
SS U 12	9.1E-03	1.6E-03	4.4E-04	2.1E-03	3.0E-02	7.0E-03	5.0E-02
SS U 13	6.2E-03	1.5E-03	4.4E-04	1.5E-03	4.5E-02	9.9E-03	6.4E-02
SS U 14	6.8E-03	7.5E-05	4.4E-04	1.2E-03	5.7E-02	8.4E-03	7.4E-02
SS U 15	5.6E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.9E-02
SS U 16	3.0E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.7E-02
SS U 17	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.8E-02	3.5E-03	3.8E-02
SS U 18	1.1E-02	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	6.5E-02
SS U 19	8.3E-03	1.6E-03	4.3E-04	1.1E-03	4.4E-02	5.5E-03	6.1E-02
SS U 20	5.0E-03	6.8E-05	4.0E-04	9.9E-04	1.6E-02	6.7E-03	2.9E-02
SS U 21	3.0E-02	7.0E-05	4.1E-04	1.2E-03	1.8E-02	8.2E-03	5.8E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(12) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS U 22	1.2E-02	1.8E-03	3.8E-04	2.3E-03	1.6E-01	2.3E-02	2.0E-01
SS U 23	4.6E-02	1.5E-03	4.2E-04	9.6E-04	2.3E-01	2.8E-02	3.0E-01
SS U 24	1.3E-01	6.8E-05	4.0E-04	1.1E-03	2.5E-02	9.1E-03	1.6E-01
SS U 25	5.3E-02	7.4E-05	4.4E-04	9.1E-04	1.4E-02	4.4E-03	7.2E-02
SS U 26	8.4E-02	7.5E-05	4.4E-04	6.0E-04	1.3E-02	4.3E-03	1.0E-01
SS U 27	5.3E-01	1.4E-03	4.4E-04	8.2E-04	1.7E-02	4.4E-03	5.6E-01
SS U 28	8.2E-03	6.9E-05	4.0E-04	2.3E-03	1.4E-01	1.2E-02	1.6E-01
SS U 29	1.1E-02	6.1E-05	3.6E-04	2.0E-03	2.8E-02	6.0E-03	4.7E-02
SS U 30	3.1E-02	6.4E-03	4.2E-04	1.2E-03	6.6E-01	6.7E-02	7.7E-01
SS U 31	7.0E-02	7.5E-05	4.4E-04	5.3E-04	2.0E-02	9.6E-03	1.0E-01
SS U 32	8.5E-02	7.5E-05	4.4E-04	8.5E-04	1.7E-02	7.6E-03	1.1E-01
SS U 33	6.0E-02	7.5E-05	4.4E-04	1.2E-03	2.3E-02	7.1E-03	9.1E-02
SS V 01	9.2E-03	2.9E-03	4.0E-04	2.2E-03	1.8E-01	3.0E-02	2.2E-01
SS V 02	1.3E-02	4.3E-03	3.5E-04	2.4E-03	2.1E-01	5.7E-02	2.9E-01
SS V 03	1.2E-02	3.4E-03	3.3E-04	2.0E-03	1.7E-01	3.9E-02	2.3E-01
SS V 04	1.3E-02	5.1E-03	3.3E-04	1.5E-03	2.2E-01	5.0E-02	2.9E-01
SS V 05	1.7E-02	6.0E-05	3.5E-04	2.7E-03	2.3E-02	1.4E-02	5.7E-02
SS V 06	1.1E-02	6.5E-05	3.8E-04	3.1E-03	2.2E-02	8.7E-03	4.5E-02
SS V 07	2.9E-02	7.4E-05	4.4E-04	2.3E-03	2.4E-02	1.2E-02	6.7E-02
SS V 08	1.3E-02	6.0E-05	3.5E-04	1.8E-03	2.0E-02	5.8E-03	4.1E-02
SS V 09	1.4E-02	6.2E-05	3.6E-04	2.0E-03	1.8E-02	6.6E-03	4.1E-02
SS V 10	1.5E-02	6.2E-05	3.6E-04	2.5E-03	1.7E-02	9.3E-03	4.4E-02
SS V 11	5.2E-03	7.1E-05	4.2E-04	7.1E-04	1.7E-02	6.0E-03	3.0E-02
SS V 12	8.5E-03	7.2E-05	4.2E-04	6.0E-04	1.8E-02	5.8E-03	3.3E-02
SS V 13	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.2E-02	5.4E-03	3.4E-02
SS V 14	8.0E-03	7.5E-05	4.4E-04	8.6E-04	1.4E-02	6.6E-03	3.0E-02
SS V 15	2.8E-03	7.5E-05	4.4E-04	1.1E-03	7.9E-03	5.5E-03	1.8E-02
SS V 16	1.2E-02	7.5E-05	4.4E-04	2.6E-04	2.8E-02	4.6E-03	4.6E-02
SS V 17	5.6E-03	7.5E-05	4.4E-04	4.2E-03	1.8E-02	6.5E-03	3.5E-02
SS V 18	5.1E-03	7.5E-05	4.4E-04	1.9E-03	2.3E-02	7.8E-03	3.9E-02
SS V 19	1.5E-03	7.5E-05	4.4E-04	8.7E-04	1.3E-02	7.2E-03	2.3E-02
SS V 20	5.6E-03	7.5E-05	4.4E-04	1.5E-03	1.5E-02	7.1E-03	3.0E-02
SS V 21	2.2E-02	7.5E-05	4.4E-04	9.8E-04	1.6E-02	6.8E-03	4.6E-02
SS V 22	4.5E-03	7.2E-05	4.3E-04	1.1E-03	1.5E-02	7.2E-03	2.8E-02
SS V 23	6.6E-03	6.4E-05	3.8E-04	1.3E-03	2.2E-02	6.7E-03	3.7E-02
SS V 24	1.2E-02	2.6E-03	3.9E-04	1.4E-03	2.9E-01	3.1E-02	3.4E-01
SS V 25	2.9E-02	1.7E-03	5.0E-04	1.6E-03	1.6E-01	2.3E-02	2.1E-01
SS V 26	8.7E-02	9.3E-05	5.4E-04	1.8E-03	7.9E-02	1.4E-02	1.8E-01
SS V 27	6.3E-02	7.1E-05	4.2E-04	7.9E-04	2.5E-02	5.6E-03	9.5E-02
SS V 28	2.7E-02	2.6E-03	4.3E-04	1.5E-03	3.3E-01	3.8E-02	4.0E-01
SS V 29	7.6E-02	7.2E-05	4.2E-04	1.3E-03	1.8E-02	9.3E-03	1.1E-01
SS V 30	3.4E-02	7.5E-05	4.4E-04	7.9E-03	2.7E-02	7.8E-03	7.7E-02
SS V 31	5.3E-02	7.5E-05	4.4E-04	3.7E-03	2.1E-02	8.2E-03	8.7E-02
SS V 32	5.0E-02	7.5E-05	4.4E-04	1.1E-03	2.9E-02	6.9E-03	8.8E-02
SS V 33	1.3E-02	7.4E-05	4.4E-04	1.5E-03	2.1E-02	6.7E-03	4.3E-02
SS W 01	2.6E-02	1.0E-02	4.1E-04	1.7E-03	4.6E-01	8.3E-02	5.8E-01
SS W 02	1.8E-02	7.6E-03	3.0E-04	1.4E-03	3.8E-01	7.0E-02	4.7E-01
SS W 03	1.3E-02	6.0E-05	3.5E-04	1.9E-03	1.9E-02	6.4E-03	4.1E-02
SS W 04	2.0E-02	6.3E-05	3.7E-04	2.4E-03	2.3E-02	5.8E-03	5.2E-02
SS W 05	2.2E-02	6.5E-05	3.8E-04	2.4E-03	2.4E-02	9.9E-03	5.9E-02
SS W 06	1.9E-02	6.7E-05	3.9E-04	2.8E-03	2.7E-02	8.1E-03	5.7E-02

**Data 6-5 (2) Exposure Risk of Heavy Metals in Soil Characterised
by Land-use On-site Risk Assessment
(13) (E: Exponent)**

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total Risk by Land-use
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total
SS W 07	2.5E-02	7.5E-05	4.4E-04	3.1E-03	2.9E-02	1.1E-02	6.8E-02
SS W 08	2.1E-02	6.6E-05	3.9E-04	2.8E-03	2.5E-02	9.9E-03	6.0E-02
SS W 09	3.5E-02	6.7E-05	3.9E-04	3.2E-04	1.5E-02	4.3E-03	5.4E-02
SS W 10	3.7E-03	5.9E-05	3.4E-04	1.8E-03	1.0E-02	4.3E-03	2.1E-02
SS W 11	2.6E-03	6.1E-05	3.6E-04	1.7E-03	1.2E-02	4.4E-03	2.1E-02
SS W 12	7.6E-03	5.9E-05	3.5E-04	1.2E-03	1.3E-02	3.6E-03	2.6E-02
SS W 13	9.7E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	5.0E-03	3.7E-02
SS W 14	4.1E-03	7.5E-05	4.4E-04	1.3E-03	1.6E-02	5.2E-03	2.7E-02
SS W 15	6.8E-03	7.5E-05	4.4E-04	1.3E-03	1.0E-02	5.0E-03	2.4E-02
SS W 16	1.3E-03	7.5E-05	4.4E-04	1.2E-03	9.2E-03	5.1E-03	1.7E-02
SS W 17	2.5E-03	7.5E-05	4.4E-04	1.6E-03	1.8E-02	4.9E-03	2.7E-02
SS W 18	5.5E-03	7.5E-05	4.4E-04	1.0E-03	1.5E-02	4.8E-03	2.7E-02
SS W 19	1.7E-02	7.5E-05	4.4E-04	2.1E-03	1.5E-02	5.7E-03	4.0E-02
SS W 20	1.8E-02	7.5E-05	4.4E-04	1.3E-03	1.2E-02	6.2E-03	3.8E-02
SS W 21	5.5E-03	7.5E-05	4.4E-04	1.6E-03	1.6E-02	6.0E-03	3.0E-02
SS W 22	5.7E-03	7.5E-05	4.4E-04	1.9E-03	1.8E-02	8.3E-03	3.5E-02
SS W 23	1.3E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	9.5E-03	4.1E-02
SS W 24	1.4E-02	6.6E-05	3.9E-04	1.2E-03	1.5E-02	6.9E-03	3.7E-02
SS W 25	5.1E-02	7.2E-05	4.2E-04	2.2E-03	4.0E-02	1.3E-02	1.1E-01
SS W 26	1.3E-02	7.3E-05	4.3E-04	3.1E-03	5.3E-02	1.5E-02	8.4E-02
SS W 27	6.9E-02	7.3E-05	4.3E-04	4.0E-03	1.3E-01	3.1E-02	2.3E-01
SS W 28	2.9E-01	7.1E-05	4.2E-04	4.0E-03	2.1E-02	6.3E-03	3.2E-01
SS W 29	1.4E-01	7.5E-05	4.4E-04	3.5E-02	3.8E-02	1.1E-02	2.2E-01
SS W 30	1.9E-01	7.5E-05	4.4E-04	1.3E-02	2.8E-02	1.1E-02	2.4E-01
SS W 31	4.1E-02	7.5E-05	4.4E-04	1.0E-02	2.3E-02	8.2E-03	8.2E-02
SS W 32	3.4E-02	6.9E-05	4.0E-04	1.2E-03	2.8E-02	1.1E-02	7.5E-02
SS W 33	5.0E-02	7.4E-05	4.4E-04	1.6E-03	3.1E-02	1.1E-02	9.5E-02
SS X 24	1.1E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	7.1E-03	3.7E-02
SS X 25	7.3E-02	7.5E-05	4.4E-04	3.0E-03	2.1E-02	8.2E-03	1.1E-01
SS X 26	2.9E-02	7.5E-05	4.4E-04	5.7E-04	1.1E-02	5.0E-03	4.6E-02
SS X 27	1.0E-02	7.0E-05	4.1E-04	3.4E-03	5.2E-02	1.5E-02	8.1E-02
SS X 28	7.0E-02	1.4E-03	4.2E-04	1.7E-02	2.5E-02	6.0E-03	1.2E-01
SS X 29	8.8E-02	6.8E-05	4.0E-04	7.1E-03	2.1E-02	5.3E-03	1.2E-01
SS X 30	6.7E-02	7.2E-05	4.2E-04	4.1E-03	2.4E-02	5.7E-03	1.0E-01
SS X 31	4.4E-02	7.3E-05	4.3E-04	1.2E-03	2.2E-02	5.6E-03	7.3E-02
SS X 32	5.8E-03	7.1E-05	4.2E-04	2.2E-03	1.9E-02	5.4E-03	3.3E-02
SS X 33	3.1E-02	7.3E-05	4.3E-04	7.2E-04	2.2E-02	4.9E-03	5.9E-02
SS Y 24	8.1E-02	7.5E-05	4.4E-04	1.5E-03	2.0E-02	1.3E-02	1.1E-01
SS Y 25	1.7E-01	7.5E-05	4.4E-04	1.2E-03	1.9E-02	9.2E-03	2.0E-01
SS Y 26	7.5E-02	7.5E-05	4.4E-04	1.6E-03	2.7E-02	6.5E-03	1.1E-01
SS Y 27	4.4E-02	7.4E-05	4.3E-04	1.2E-03	2.2E-02	6.9E-03	7.5E-02
SS Y 28	3.4E-02	7.1E-05	4.2E-04	2.3E-03	5.8E-02	1.3E-02	1.1E-01
SS Y 29	3.6E-02	8.6E-05	5.0E-04	3.1E-03	6.2E-02	2.1E-02	1.2E-01
SS Y 30	3.5E-02	7.3E-05	4.3E-04	1.8E-03	3.9E-02	1.2E-02	8.7E-02
SS Y 31	3.9E-02	2.8E-03	7.0E-04	2.4E-03	8.4E-02	4.9E-02	1.8E-01
SS Y 32	1.6E-02	2.9E-03	4.9E-04	2.8E-03	1.1E-01	4.9E-02	1.8E-01
SS Y 33	1.1E-02	2.6E-03	4.4E-04	1.6E-03	6.0E-02	4.1E-02	1.2E-01
SS Z 24	1.0E-01	7.5E-05	4.4E-04	1.9E-03	4.0E-02	2.2E-02	1.7E-01
SS Z 25	2.7E-01	7.5E-05	9.4E-04	7.8E-04	1.2E-01	1.1E-02	4.1E-01
SS Z 26	1.1E-01	7.5E-05	2.1E-03	1.7E-03	8.9E-02	2.3E-02	2.3E-01
SS Z 27	4.8E-02	7.5E-05	4.4E-04	1.5E-03	2.9E-02	8.1E-03	8.8E-02

**Data 6-6 Exposure Risk of Heavy Metals in
(drinking) Groundwater**

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(1)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS A 13	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS A 14	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS A 15	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS A 16	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS A 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS A 18	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS A 19	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS A 20	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS A 21	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS A 22	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS A 23	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS A 24	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS A 25	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 12	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS B 13	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS B 14	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS B 15	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS B 16	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS B 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 18	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 19	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 20	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 21	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 22	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 23	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 24	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS B 25	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 11	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS C 12	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS C 13	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS C 14	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS C 15	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS C 16	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS C 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 18	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 19	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 20	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 21	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 22	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 23	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 24	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS C 25	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS D 10	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS D 11	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS D 12	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS D 13	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS D 14	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS D 15	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS D 16	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS D 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS D 18	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(2)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS D 19	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS D 20	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS D 21	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS D 22	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS D 23	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS D 24	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS D 25	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS E 9	1.9E-01	8.4E-03	1.2E-02	9.1E-02	1.3E-01	2.0E-02	4.5E-01
SS E 10	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS E 11	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS E 12	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS E 13	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS E 14	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS E 15	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS E 16	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS E 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS E 18	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS E 19	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS E 20	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS E 21	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS E 22	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS E 23	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS E 24	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS E 25	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS F 9	1.9E-01	8.4E-03	1.2E-02	9.1E-02	1.3E-01	2.0E-02	4.5E-01
SS F 10	1.9E-01	8.4E-03	1.2E-02	9.1E-02	1.3E-01	2.0E-02	4.5E-01
SS F 11	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS F 12	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS F 13	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS F 14	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS F 15	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS F 16	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS F 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS F 18	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS F 19	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS F 20	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS F 21	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS F 22	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS F 23	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS F 24	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS F 25	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS G 9	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS G 10	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS G 11	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS G 12	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS G 13	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS G 14	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS G 15	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS G 16	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS G 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS G 18	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(3)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS G 19	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS G 20	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS G 21	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS G 22	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS G 23	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS G 24	2.1E-01	1.3E-02	1.2E-02	1.4E-01	1.7E-01	2.0E-02	5.6E-01
SS G 25	2.1E-01	1.3E-02	1.2E-02	1.4E-01	1.7E-01	2.0E-02	5.6E-01
SS G 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS G 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 9	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS H 10	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS H 11	1.9E-01	8.4E-03	1.2E-02	9.1E-02	1.3E-01	2.0E-02	4.5E-01
SS H 12	1.9E-01	8.4E-03	1.2E-02	9.1E-02	1.3E-01	2.0E-02	4.5E-01
SS H 13	1.9E-01	8.4E-03	1.2E-02	9.1E-02	1.3E-01	2.0E-02	4.5E-01
SS H 14	1.9E-02	1.3E-02	1.2E-02	9.8E-02	1.7E-01	2.0E-02	3.3E-01
SS H 15	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS H 16	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS H 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS H 18	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS H 19	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS H 20	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS H 21	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS H 22	2.3E-01	4.2E-03	2.7E-02	1.2E-01	1.2E-01	2.0E-02	5.2E-01
SS H 23	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS H 24	2.1E-01	1.3E-02	1.2E-02	1.4E-01	1.7E-01	2.0E-02	5.6E-01
SS H 25	2.1E-01	1.3E-02	1.2E-02	1.4E-01	1.7E-01	2.0E-02	5.6E-01
SS H 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS H 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS I 8	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.2E-01	2.0E-02	4.9E-01
SS I 9	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.2E-01	2.0E-02	4.9E-01
SS I 10	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS I 11	1.9E-01	8.4E-03	1.2E-02	9.1E-02	1.3E-01	2.0E-02	4.5E-01
SS I 12	1.9E-01	8.4E-03	1.2E-02	9.1E-02	1.3E-01	2.0E-02	4.5E-01

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(5)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS J 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS J 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS J 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 06	2.1E-01	8.4E-03	1.2E-02	1.3E-01	2.5E-01	2.0E-02	6.3E-01
SS K 07	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.2E-01	2.0E-02	4.9E-01
SS K 08	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.2E-01	2.0E-02	4.9E-01
SS K 09	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.2E-01	2.0E-02	4.9E-01
SS K 10	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS K 11	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS K 12	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS K 13	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS K 14	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS K 15	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS K 16	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS K 17	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS K 18	2.3E-01	8.4E-03	1.2E-02	1.2E-01	2.2E-01	2.0E-02	6.0E-01
SS K 19	2.3E-01	8.4E-03	1.2E-02	1.2E-01	2.2E-01	2.0E-02	6.0E-01
SS K 20	2.3E-01	8.4E-03	1.2E-02	1.2E-01	2.2E-01	2.0E-02	6.0E-01
SS K 21	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS K 22	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS K 23	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS K 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS K 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS L 18	2.3E-01	8.4E-03	1.2E-02	1.2E-01	2.2E-01	2.0E-02	6.0E-01
SS L 19	2.3E-01	8.4E-03	1.2E-02	1.2E-01	2.2E-01	2.0E-02	6.0E-01
SS L 20	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS L 21	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(7)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS N 06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 18	2.3E-01	8.4E-03	1.2E-02	1.2E-01	2.2E-01	2.0E-02	6.0E-01
SS N 19	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS N 20	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS N 21	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS N 22	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS N 23	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS N 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 34	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 35	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS N 36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS O 18	2.3E-01	8.4E-03	1.2E-02	1.2E-01	2.2E-01	2.0E-02	6.0E-01
SS O 19	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS O 20	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS O 21	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(9)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS Q 01	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS Q 02	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS Q 03	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS Q 04	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS Q 05	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS Q 06	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS Q 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 18	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS Q 19	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01
SS Q 20	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS Q 21	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS Q 22	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS Q 23	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS Q 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Q 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 01	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS R 02	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS R 03	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS R 04	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS R 05	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS R 06	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS R 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 18	2.7E-01	1.7E-02	1.2E-02	1.6E-01	2.0E-01	1.0E-01	7.6E-01

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(10)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS R 19	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS R 20	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS R 21	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS R 22	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS R 23	2.3E-01	8.4E-03	1.2E-02	1.7E-01	1.6E-01	2.0E-02	6.0E-01
SS R 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS R 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 01	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS S 02	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS S 03	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS S 04	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS S 05	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS S 06	2.1E-01	8.4E-03	1.2E-02	8.8E-02	1.7E-01	2.0E-02	5.1E-01
SS S 07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 18	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 19	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 20	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 21	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 22	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 23	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS S 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS T 01	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS T 02	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS T 03	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(12)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS U 22	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 23	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS U 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 01	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS V 02	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS V 03	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS V 04	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS V 05	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS V 06	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS V 07	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS V 08	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS V 09	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS V 10	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS V 11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 12	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 13	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 14	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 15	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 16	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 17	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 18	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 19	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 20	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 21	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 22	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 23	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS V 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS W 01	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.3E-01
SS W 02	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS W 03	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS W 04	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS W 05	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01
SS W 06	2.1E-01	8.4E-03	1.2E-02	1.2E-01	1.6E-01	2.0E-02	5.2E-01

Data 6-6 Exposure Risk of Heavy Metals in (drinking) Groundwater

(14)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Total risk by G Water
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	
SS Z 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Z 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Z 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Z 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Z 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS Z 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 24	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 25	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 27	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 28	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 29	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 30	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 31	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 32	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
SS a 33	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
Maximum	2.7E-01	1.7E-02	2.7E-02	1.7E-01	2.5E-01	1.0E-01	7.6E-01
Minimum	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E-03
Average	7.7E-02	4.0E-03	5.4E-03	4.5E-02	6.8E-02	1.2E-02	2.1E-01

**Data 6-7 Total Exposure Risk of Heavy Metals in
Soil and (drinking) Groundwater**

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(1)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS A 13	3.2E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.6E-02	4.5E-02	3.3E-01	3.75E-01	
SS A 14	3.0E-02	1.4E-02	1.3E-02	1.0E-01	1.8E-01	2.5E-02	3.8E-02	3.3E-01	3.68E-01	
SS A 15	2.9E-02	1.4E-02	1.3E-02	1.0E-01	1.9E-01	2.5E-02	3.9E-02	3.3E-01	3.69E-01	
SS A 16	2.8E-02	1.4E-02	1.3E-02	1.0E-01	2.0E-01	2.6E-02	4.6E-02	3.3E-01	3.76E-01	
SS A 17	2.2E-01	8.5E-03	1.3E-02	9.0E-02	1.9E-01	2.6E-02	3.5E-02	5.1E-01	5.41E-01	
SS A 18	2.2E-01	9.9E-03	1.3E-02	9.8E-02	1.9E-01	2.8E-02	5.2E-02	5.1E-01	5.58E-01	
SS A 19	2.2E-01	9.8E-03	1.3E-02	9.7E-02	1.8E-01	2.5E-02	4.0E-02	5.1E-01	5.5E-01	
SS A 20	2.2E-01	8.5E-03	1.3E-02	9.3E-02	1.8E-01	2.3E-02	2.7E-02	5.1E-01	5.3E-01	
SS A 21	2.2E-01	8.5E-03	1.3E-02	9.1E-02	1.8E-01	2.4E-02	3.1E-02	5.1E-01	5.4E-01	
SS A 22	2.2E-01	8.5E-03	1.3E-02	9.1E-02	1.8E-01	2.6E-02	3.5E-02	5.1E-01	5.4E-01	
SS A 23	2.1E-01	8.5E-03	1.3E-02	9.2E-02	1.8E-01	2.4E-02	2.5E-02	5.1E-01	5.3E-01	
SS A 24	2.1E-01	8.5E-03	1.3E-02	9.2E-02	1.9E-01	2.6E-02	3.5E-02	5.1E-01	5.4E-01	
SS A 25	2.2E-01	9.7E-03	1.3E-02	9.4E-02	1.9E-01	2.6E-02	4.4E-02	5.1E-01	5.5E-01	
SS B 12	4.5E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.6E-02	5.9E-02	3.3E-01	3.9E-01	
SS B 13	4.7E-02	1.3E-02	1.3E-02	9.9E-02	1.9E-01	2.7E-02	6.3E-02	3.3E-01	3.9E-01	
SS B 14	3.2E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.5E-02	3.8E-02	3.3E-01	3.7E-01	
SS B 15	2.6E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.7E-02	3.6E-02	3.3E-01	3.7E-01	
SS B 16	2.6E-02	1.3E-02	1.3E-02	1.0E-01	1.8E-01	2.5E-02	3.4E-02	3.3E-01	3.6E-01	
SS B 17	2.1E-01	8.5E-03	1.3E-02	9.3E-02	1.9E-01	2.5E-02	3.7E-02	5.1E-01	5.4E-01	
SS B 18	2.2E-01	8.5E-03	1.3E-02	1.0E-01	1.9E-01	2.5E-02	4.6E-02	5.1E-01	5.5E-01	
SS B 19	2.2E-01	8.5E-03	1.3E-02	9.9E-02	1.9E-01	2.6E-02	5.0E-02	5.1E-01	5.6E-01	
SS B 20	2.2E-01	8.5E-03	1.3E-02	9.5E-02	1.8E-01	2.5E-02	3.2E-02	5.1E-01	5.4E-01	
SS B 21	2.2E-01	8.5E-03	1.3E-02	9.1E-02	1.8E-01	2.4E-02	3.1E-02	5.1E-01	5.4E-01	
SS B 22	2.2E-01	8.5E-03	1.3E-02	9.6E-02	1.8E-01	2.4E-02	3.3E-02	5.1E-01	5.4E-01	
SS B 23	2.2E-01	8.5E-03	1.3E-02	9.5E-02	1.9E-01	2.5E-02	4.3E-02	5.1E-01	5.5E-01	
SS B 24	2.2E-01	8.5E-03	1.3E-02	9.2E-02	1.8E-01	2.6E-02	3.4E-02	5.1E-01	5.4E-01	
SS B 25	2.2E-01	8.5E-03	1.3E-02	9.1E-02	1.8E-01	2.4E-02	2.7E-02	5.1E-01	5.3E-01	
SS C 11	2.6E-02	1.4E-02	1.3E-02	1.0E-01	1.9E-01	2.5E-02	4.3E-02	3.3E-01	3.7E-01	
SS C 12	3.4E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.6E-02	4.6E-02	3.3E-01	3.8E-01	
SS C 13	2.9E-02	1.4E-02	1.3E-02	1.0E-01	1.9E-01	2.6E-02	3.9E-02	3.3E-01	3.7E-01	
SS C 14	2.4E-02	1.3E-02	1.3E-02	1.0E-01	1.8E-01	2.8E-02	3.3E-02	3.3E-01	3.6E-01	
SS C 15	3.0E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.7E-02	4.2E-02	3.3E-01	3.7E-01	
SS C 16	2.6E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.6E-02	3.4E-02	3.3E-01	3.6E-01	
SS C 17	2.2E-01	8.5E-03	1.3E-02	9.5E-02	1.9E-01	2.6E-02	4.1E-02	5.1E-01	5.5E-01	
SS C 18	2.2E-01	8.5E-03	1.3E-02	9.6E-02	1.9E-01	2.6E-02	5.0E-02	5.1E-01	5.6E-01	
SS C 19	2.2E-01	8.5E-03	1.3E-02	1.0E-01	1.9E-01	2.5E-02	5.2E-02	5.1E-01	5.6E-01	
SS C 20	2.1E-01	8.5E-03	1.3E-02	9.5E-02	1.9E-01	2.6E-02	4.1E-02	5.1E-01	5.5E-01	
SS C 21	2.3E-01	8.5E-03	1.3E-02	9.3E-02	1.8E-01	2.6E-02	4.5E-02	5.1E-01	5.5E-01	
SS C 22	2.2E-01	9.4E-03	1.3E-02	9.1E-02	1.8E-01	2.4E-02	3.2E-02	5.1E-01	5.4E-01	
SS C 23	2.1E-01	8.5E-03	1.3E-02	8.9E-02	1.7E-01	2.2E-02	1.1E-02	5.1E-01	5.2E-01	
SS C 24	2.1E-01	8.5E-03	1.3E-02	9.1E-02	1.8E-01	2.5E-02	2.5E-02	5.1E-01	5.3E-01	
SS C 25	2.2E-01	8.5E-03	1.3E-02	8.9E-02	1.9E-01	2.6E-02	3.2E-02	5.1E-01	5.4E-01	
SS D 10	3.0E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.6E-02	4.4E-02	3.3E-01	3.7E-01	
SS D 11	4.3E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.5E-02	5.3E-02	3.3E-01	3.8E-01	
SS D 12	2.7E-02	1.3E-02	1.3E-02	1.0E-01	1.8E-01	2.5E-02	3.3E-02	3.3E-01	3.6E-01	
SS D 13	2.7E-02	1.3E-02	1.3E-02	1.0E-01	1.8E-01	2.4E-02	2.9E-02	3.3E-01	3.6E-01	
SS D 14	2.6E-02	1.3E-02	1.3E-02	1.1E-01	1.9E-01	2.6E-02	4.1E-02	3.3E-01	3.7E-01	
SS D 15	2.5E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.5E-02	3.4E-02	3.3E-01	3.6E-01	
SS D 16	3.2E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.6E-02	4.6E-02	3.3E-01	3.8E-01	
SS D 17	2.1E-01	8.5E-03	1.3E-02	9.6E-02	1.8E-01	2.6E-02	3.5E-02	5.1E-01	5.4E-01	
SS D 18	2.2E-01	8.5E-03	1.3E-02	9.6E-02	1.8E-01	2.5E-02	3.8E-02	5.1E-01	5.4E-01	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(2)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater		
	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021			Total Risk
SS D 19	2.2E-01	8.5E-03	1.3E-02	9.6E-02	1.9E-01	2.6E-02	4.4E-02	5.1E-01	5.5E-01
SS D 20	2.2E-01	8.5E-03	1.3E-02	9.2E-02	1.8E-01	2.5E-02	3.1E-02	5.1E-01	5.4E-01
SS D 21	2.2E-01	8.5E-03	1.3E-02	9.2E-02	1.8E-01	2.5E-02	3.0E-02	5.1E-01	5.4E-01
SS D 22	2.2E-01	8.5E-03	1.3E-02	8.9E-02	1.8E-01	2.6E-02	3.4E-02	5.1E-01	5.4E-01
SS D 23	2.3E-01	8.5E-03	1.3E-02	9.0E-02	1.9E-01	2.5E-02	5.3E-02	5.1E-01	5.6E-01
SS D 24	2.5E-01	8.5E-03	1.3E-02	9.0E-02	2.0E-01	2.5E-02	7.9E-02	5.1E-01	5.9E-01
SS D 25	2.4E-01	8.5E-03	1.3E-02	8.9E-02	1.9E-01	2.6E-02	6.4E-02	5.1E-01	5.7E-01
SS E 9	2.0E-01	8.5E-03	1.3E-02	9.5E-02	1.5E-01	2.6E-02	3.5E-02	4.5E-01	4.9E-01
SS E 10	4.4E-02	1.3E-02	1.3E-02	9.9E-02	2.0E-01	2.3E-02	6.5E-02	3.3E-01	3.9E-01
SS E 11	2.6E-02	1.3E-02	1.3E-02	1.0E-01	2.0E-01	2.6E-02	4.8E-02	3.3E-01	3.8E-01
SS E 12	3.0E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.4E-02	3.8E-02	3.3E-01	3.7E-01
SS E 13	4.8E-02	1.3E-02	1.3E-02	1.0E-01	1.9E-01	2.4E-02	6.0E-02	3.3E-01	3.9E-01
SS E 14	2.9E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.5E-02	4.1E-02	3.3E-01	3.7E-01
SS E 15	2.3E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.5E-02	3.0E-02	3.3E-01	3.6E-01
SS E 16	2.3E-02	1.3E-02	1.3E-02	1.0E-01	1.7E-01	2.3E-02	2.0E-02	3.3E-01	3.5E-01
SS E 17	2.2E-01	8.5E-03	1.3E-02	9.4E-02	1.8E-01	2.3E-02	2.6E-02	5.1E-01	5.3E-01
SS E 18	2.2E-01	8.5E-03	1.3E-02	1.0E-01	1.9E-01	2.7E-02	5.5E-02	5.1E-01	5.6E-01
SS E 19	2.3E-01	8.5E-03	1.3E-02	9.7E-02	1.9E-01	2.8E-02	5.7E-02	5.1E-01	5.6E-01
SS E 20	2.2E-01	8.5E-03	1.3E-02	9.1E-02	1.9E-01	2.7E-02	3.8E-02	5.1E-01	5.4E-01
SS E 21	2.2E-01	8.5E-03	1.3E-02	8.9E-02	1.9E-01	2.6E-02	3.8E-02	5.1E-01	5.4E-01
SS E 22	2.3E-01	8.5E-03	1.3E-02	9.0E-02	1.9E-01	2.6E-02	5.2E-02	5.1E-01	5.6E-01
SS E 23	2.4E-01	8.5E-03	1.3E-02	9.0E-02	2.0E-01	2.7E-02	7.6E-02	5.1E-01	5.8E-01
SS E 24	3.3E-01	4.3E-03	2.8E-02	1.2E-01	1.5E-01	2.6E-02	1.4E-01	5.2E-01	6.6E-01
SS E 25	2.5E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.8E-02	4.8E-02	5.2E-01	5.7E-01
SS F 9	2.1E-01	8.5E-03	1.3E-02	9.6E-02	1.5E-01	2.5E-02	5.2E-02	4.5E-01	5.0E-01
SS F 10	2.0E-01	8.5E-03	1.3E-02	9.6E-02	1.5E-01	2.5E-02	3.5E-02	4.5E-01	4.9E-01
SS F 11	2.5E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.5E-02	3.5E-02	3.3E-01	3.7E-01
SS F 12	2.8E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.5E-02	4.4E-02	3.3E-01	3.7E-01
SS F 13	2.8E-02	1.3E-02	1.3E-02	1.1E-01	1.9E-01	2.5E-02	4.5E-02	3.3E-01	3.7E-01
SS F 14	2.3E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.3E-02	2.3E-02	3.3E-01	3.5E-01
SS F 15	2.5E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.4E-02	3.0E-02	3.3E-01	3.6E-01
SS F 16	2.1E-01	8.5E-03	1.3E-02	9.5E-02	1.8E-01	2.3E-02	2.5E-02	5.1E-01	5.3E-01
SS F 17	2.2E-01	8.5E-03	1.3E-02	9.9E-02	1.9E-01	2.5E-02	4.6E-02	5.1E-01	5.5E-01
SS F 18	2.2E-01	8.5E-03	1.3E-02	1.0E-01	1.9E-01	2.5E-02	4.8E-02	5.1E-01	5.5E-01
SS F 19	2.2E-01	8.5E-03	1.3E-02	8.9E-02	1.9E-01	2.5E-02	3.7E-02	5.1E-01	5.4E-01
SS F 20	2.2E-01	8.5E-03	1.3E-02	8.9E-02	1.9E-01	2.9E-02	4.7E-02	5.1E-01	5.5E-01
SS F 21	2.5E-01	8.5E-03	1.3E-02	9.0E-02	1.9E-01	2.6E-02	7.0E-02	5.1E-01	5.8E-01
SS F 22	3.7E-01	8.5E-03	1.3E-02	9.0E-02	2.2E-01	2.5E-02	2.2E-01	5.1E-01	7.3E-01
SS F 23	2.5E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	3.0E-02	5.0E-02	5.2E-01	5.7E-01
SS F 24	2.4E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.6E-02	3.7E-02	5.2E-01	5.6E-01
SS F 25	2.4E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.6E-02	4.3E-02	5.2E-01	5.6E-01
SS G 9	3.6E-02	1.3E-02	1.3E-02	1.0E-01	2.0E-01	2.6E-02	5.5E-02	3.3E-01	3.8E-01
SS G 10	2.9E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.5E-02	4.2E-02	3.3E-01	3.7E-01
SS G 11	3.0E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.5E-02	4.5E-02	3.3E-01	3.8E-01
SS G 12	2.6E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.5E-02	4.1E-02	3.3E-01	3.7E-01
SS G 13	2.6E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.7E-02	3.8E-02	3.3E-01	3.7E-01
SS G 14	2.5E-02	1.3E-02	1.3E-02	1.0E-01	1.8E-01	2.4E-02	3.0E-02	3.3E-01	3.6E-01
SS G 15	2.4E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.4E-02	3.3E-02	3.3E-01	3.6E-01
SS G 16	2.2E-01	8.5E-03	1.3E-02	9.8E-02	1.8E-01	2.4E-02	3.6E-02	5.1E-01	5.4E-01
SS G 17	2.2E-01	8.5E-03	1.3E-02	9.7E-02	1.8E-01	2.5E-02	3.8E-02	5.1E-01	5.4E-01
SS G 18	2.6E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.8E-02	6.1E-02	5.2E-01	5.8E-01

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(3)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater		
	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021			Total Risk
SS G 19	2.7E-01	4.3E-03	2.8E-02	1.2E-01	1.5E-01	2.7E-02	7.7E-02	5.2E-01	6.0E-01
SS G 20	2.6E-01	8.5E-03	1.3E-02	8.9E-02	2.0E-01	2.6E-02	9.2E-02	5.1E-01	6.0E-01
SS G 21	3.0E-01	4.3E-03	2.8E-02	1.2E-01	1.5E-01	2.7E-02	1.1E-01	5.2E-01	6.3E-01
SS G 22	2.4E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.7E-02	4.1E-02	5.2E-01	5.6E-01
SS G 23	2.3E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.8E-02	3.0E-02	5.2E-01	5.5E-01
SS G 24	2.2E-01	1.3E-02	1.3E-02	1.4E-01	1.9E-01	2.7E-02	3.8E-02	5.6E-01	6.0E-01
SS G 25	2.2E-01	1.3E-02	1.3E-02	1.4E-01	1.9E-01	2.7E-02	3.7E-02	5.6E-01	6.0E-01
SS G 26	1.3E-02	7.5E-05	4.4E-04	3.1E-03	2.1E-02	5.9E-03	4.3E-02	0.0E+00	4.4E-02
SS G 27	2.2E-02	7.5E-05	4.4E-04	2.5E-03	1.9E-02	5.9E-03	5.0E-02	0.0E+00	5.1E-02
SS G 28	1.6E-02	1.1E-03	3.1E-04	4.4E-03	1.5E-02	3.8E-03	4.2E-02	0.0E+00	4.3E-02
SS G 29	1.6E-02	1.0E-03	2.9E-04	4.7E-03	1.5E-02	3.5E-03	4.0E-02	0.0E+00	4.1E-02
SS G 30	1.2E-02	1.0E-03	2.9E-04	5.2E-03	1.5E-02	4.1E-03	3.7E-02	0.0E+00	3.8E-02
SS G 31	1.9E-02	1.2E-03	3.5E-04	3.3E-03	2.0E-02	3.9E-03	4.8E-02	0.0E+00	4.9E-02
SS G 32	2.5E-02	6.5E-05	3.8E-04	1.7E-03	3.4E-02	5.5E-03	6.6E-02	0.0E+00	6.7E-02
SS G 33	2.4E-02	1.5E-03	4.4E-04	1.9E-03	2.9E-02	5.6E-03	6.2E-02	0.0E+00	6.3E-02
SS G 34	2.0E-02	7.5E-05	4.4E-04	2.1E-03	4.6E-02	4.5E-03	7.3E-02	0.0E+00	7.4E-02
SS G 35	1.5E-02	7.5E-05	4.4E-04	2.4E-03	4.6E-02	3.4E-03	6.8E-02	0.0E+00	6.9E-02
SS G 36	2.4E-02	7.5E-05	4.4E-04	2.5E-03	4.1E-02	4.8E-03	7.3E-02	0.0E+00	7.4E-02
SS H 9	2.2E-01	8.5E-03	1.3E-02	9.0E-02	1.9E-01	2.5E-02	3.9E-02	5.1E-01	5.4E-01
SS H 10	2.2E-01	8.5E-03	1.3E-02	9.8E-02	1.8E-01	2.5E-02	4.5E-02	5.1E-01	5.5E-01
SS H 11	1.9E-01	8.5E-03	1.3E-02	1.0E-01	1.4E-01	2.4E-02	3.5E-02	4.5E-01	4.9E-01
SS H 12	1.9E-01	8.5E-03	1.3E-02	1.0E-01	1.4E-01	2.4E-02	3.4E-02	4.5E-01	4.9E-01
SS H 13	2.0E-01	8.5E-03	1.3E-02	1.0E-01	1.4E-01	2.5E-02	3.4E-02	4.5E-01	4.9E-01
SS H 14	2.5E-02	1.3E-02	1.3E-02	1.1E-01	1.8E-01	2.4E-02	2.8E-02	3.3E-01	3.6E-01
SS H 15	2.2E-01	8.5E-03	1.3E-02	1.0E-01	1.8E-01	2.4E-02	4.3E-02	5.1E-01	5.5E-01
SS H 16	2.2E-01	8.5E-03	1.3E-02	9.1E-02	1.9E-01	2.6E-02	3.5E-02	5.1E-01	5.4E-01
SS H 17	2.2E-01	8.5E-03	1.3E-02	9.0E-02	1.9E-01	2.6E-02	3.6E-02	5.1E-01	5.4E-01
SS H 18	2.4E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.7E-02	4.2E-02	5.2E-01	5.6E-01
SS H 19	2.4E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	3.0E-02	4.2E-02	5.2E-01	5.6E-01
SS H 20	2.7E-01	4.3E-03	2.8E-02	1.2E-01	1.5E-01	2.6E-02	7.6E-02	5.2E-01	6.0E-01
SS H 21	2.5E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.8E-02	4.9E-02	5.2E-01	5.7E-01
SS H 22	2.4E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.8E-02	4.7E-02	5.2E-01	5.7E-01
SS H 23	2.8E-01	1.7E-02	1.3E-02	1.7E-01	2.2E-01	1.1E-01	5.1E-02	7.6E-01	8.1E-01
SS H 24	2.2E-01	1.3E-02	1.3E-02	1.4E-01	1.9E-01	2.7E-02	4.2E-02	5.6E-01	6.0E-01
SS H 25	2.2E-01	1.3E-02	1.3E-02	1.4E-01	2.0E-01	3.4E-02	5.6E-02	5.6E-01	6.2E-01
SS H 26	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.2E-02	6.1E-03	4.2E-02	0.0E+00	4.3E-02
SS H 27	8.5E-03	7.1E-05	4.2E-04	2.5E-03	2.1E-02	5.1E-03	3.7E-02	0.0E+00	3.8E-02
SS H 28	1.6E-02	1.0E-03	2.9E-04	4.1E-03	1.5E-02	3.0E-03	3.9E-02	0.0E+00	4.0E-02
SS H 29	1.8E-02	5.0E-05	2.9E-04	3.3E-03	1.5E-02	2.9E-03	3.9E-02	0.0E+00	4.0E-02
SS H 30	1.6E-02	1.1E-03	3.1E-04	3.3E-03	1.5E-02	3.8E-03	4.0E-02	0.0E+00	4.1E-02
SS H 31	2.7E-02	1.4E-03	4.0E-04	1.8E-03	2.8E-02	5.4E-03	6.4E-02	0.0E+00	6.5E-02
SS H 32	1.9E-02	7.5E-05	4.4E-04	1.5E-03	2.7E-02	1.1E-02	6.0E-02	0.0E+00	6.1E-02
SS H 33	1.2E-02	1.5E-03	4.4E-04	1.9E-03	2.5E-02	6.9E-03	4.8E-02	0.0E+00	4.9E-02
SS H 34	3.7E-02	7.3E-05	4.3E-04	2.0E-03	3.6E-02	6.2E-03	8.2E-02	0.0E+00	8.3E-02
SS H 35	2.0E-02	7.5E-05	4.4E-04	5.5E-03	2.6E-02	5.2E-03	5.6E-02	0.0E+00	5.7E-02
SS H 36	1.7E-02	7.3E-05	4.3E-04	1.3E-02	2.5E-02	5.8E-03	6.1E-02	0.0E+00	6.2E-02
SS I 8	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.6E-01	2.6E-02	6.8E-02	4.9E-01	5.5E-01
SS I 9	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.4E-01	2.5E-02	4.7E-02	4.9E-01	5.3E-01
SS I 10	2.2E-01	8.5E-03	1.3E-02	9.9E-02	1.8E-01	2.4E-02	3.6E-02	5.1E-01	5.4E-01
SS I 11	1.9E-01	8.5E-03	1.3E-02	1.0E-01	1.4E-01	2.4E-02	3.0E-02	4.5E-01	4.8E-01
SS I 12	2.0E-01	8.5E-03	1.3E-02	1.0E-01	1.4E-01	2.4E-02	3.3E-02	4.5E-01	4.9E-01

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(4)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater		
	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021			Total Risk
SS I 13	2.0E-01	8.5E-03	1.3E-02	1.0E-01	1.4E-01	2.4E-02	3.0E-02	4.5E-01	4.8E-01
SS I 14	2.7E-02	1.3E-02	1.3E-02	1.0E-01	1.8E-01	2.5E-02	3.4E-02	3.3E-01	3.6E-01
SS I 15	2.2E-01	8.5E-03	1.3E-02	9.1E-02	1.9E-01	2.4E-02	3.5E-02	5.1E-01	5.4E-01
SS I 16	2.2E-01	9.9E-03	1.3E-02	9.0E-02	1.9E-01	2.6E-02	3.8E-02	5.1E-01	5.4E-01
SS I 17	2.2E-01	9.9E-03	1.3E-02	9.0E-02	1.9E-01	2.7E-02	4.1E-02	5.1E-01	5.5E-01
SS I 18	2.1E-01	8.5E-03	1.3E-02	9.0E-02	1.9E-01	2.7E-02	3.4E-02	5.1E-01	5.4E-01
SS I 19	2.4E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	2.6E-02	3.5E-02	5.2E-01	5.6E-01
SS I 20	2.4E-01	4.3E-03	2.8E-02	1.2E-01	1.4E-01	3.1E-02	4.1E-02	5.2E-01	5.6E-01
SS I 21	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.3E-01	1.1E-01	3.8E-02	7.6E-01	8.0E-01
SS I 22	2.8E-01	1.7E-02	1.3E-02	1.7E-01	2.3E-01	1.1E-01	4.4E-02	7.6E-01	8.1E-01
SS I 23	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.3E-01	1.1E-01	3.3E-02	7.6E-01	8.0E-01
SS I 24	2.1E-01	1.3E-02	1.3E-02	1.4E-01	1.8E-01	2.5E-02	2.5E-02	5.6E-01	5.8E-01
SS I 25	2.2E-01	1.3E-02	1.3E-02	1.4E-01	1.8E-01	2.7E-02	3.0E-02	5.6E-01	5.9E-01
SS I 26	7.0E-03	6.4E-05	3.8E-04	1.8E-03	1.9E-02	5.9E-03	3.4E-02	0.0E+00	3.5E-02
SS I 27	1.7E-02	6.0E-05	3.5E-04	4.3E-03	1.7E-02	4.1E-03	4.3E-02	0.0E+00	4.4E-02
SS I 28	1.4E-02	5.3E-05	3.1E-04	4.8E-03	1.8E-02	3.8E-03	4.1E-02	0.0E+00	4.2E-02
SS I 29	1.2E-02	5.1E-05	3.0E-04	3.4E-03	2.3E-02	3.2E-03	4.3E-02	0.0E+00	4.4E-02
SS I 30	2.3E-02	6.9E-05	4.1E-04	2.9E-03	2.5E-02	5.9E-03	5.7E-02	0.0E+00	5.8E-02
SS I 31	1.3E-02	7.5E-05	4.4E-04	1.9E-03	5.2E-02	7.0E-03	7.4E-02	0.0E+00	7.5E-02
SS I 32	5.3E-03	1.5E-03	4.4E-04	2.0E-03	1.7E-02	2.3E-02	5.0E-02	0.0E+00	5.1E-02
SS I 33	1.8E-02	1.5E-03	4.4E-04	2.6E-03	3.3E-02	7.9E-03	6.3E-02	0.0E+00	6.4E-02
SS I 34	1.0E-02	7.5E-05	4.4E-04	2.4E-03	2.4E-02	5.2E-03	4.3E-02	0.0E+00	4.4E-02
SS I 35	8.1E-03	6.2E-05	3.7E-04	8.1E-03	2.0E-02	5.4E-03	4.2E-02	0.0E+00	4.3E-02
SS I 36	1.1E-02	6.3E-05	3.7E-04	1.1E-02	2.2E-02	4.6E-03	4.9E-02	0.0E+00	5.0E-02
SS J 7	2.1E-01	9.9E-03	1.3E-02	1.2E-01	1.4E-01	2.6E-02	4.0E-02	4.9E-01	5.3E-01
SS J 8	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.4E-01	2.5E-02	2.9E-02	4.9E-01	5.2E-01
SS J 9	2.2E-01	9.4E-03	1.3E-02	1.3E-01	1.3E-01	2.4E-02	4.0E-02	4.9E-01	5.3E-01
SS J 10	2.2E-01	9.7E-03	1.3E-02	9.9E-02	1.8E-01	2.5E-02	4.0E-02	5.1E-01	5.5E-01
SS J 11	2.2E-01	8.5E-03	1.3E-02	1.0E-01	1.8E-01	2.5E-02	4.2E-02	5.1E-01	5.5E-01
SS J 12	2.2E-01	8.5E-03	1.3E-02	9.8E-02	1.8E-01	2.4E-02	3.3E-02	5.1E-01	5.4E-01
SS J 13	2.2E-01	8.5E-03	1.3E-02	9.4E-02	1.8E-01	2.4E-02	3.2E-02	5.1E-01	5.4E-01
SS J 14	2.2E-01	8.5E-03	1.3E-02	8.9E-02	1.9E-01	2.5E-02	3.7E-02	5.1E-01	5.4E-01
SS J 15	2.2E-01	9.9E-03	1.3E-02	8.9E-02	1.9E-01	2.6E-02	3.5E-02	5.1E-01	5.4E-01
SS J 16	2.2E-01	8.5E-03	1.3E-02	9.0E-02	1.9E-01	2.5E-02	3.7E-02	5.1E-01	5.4E-01
SS J 17	2.1E-01	9.9E-03	1.3E-02	9.0E-02	1.9E-01	2.6E-02	3.1E-02	5.1E-01	5.4E-01
SS J 18	2.1E-01	8.5E-03	1.3E-02	8.9E-02	1.8E-01	2.5E-02	2.4E-02	5.1E-01	5.3E-01
SS J 19	2.4E-01	8.5E-03	1.3E-02	1.2E-01	2.4E-01	2.6E-02	4.0E-02	6.0E-01	6.4E-01
SS J 20	2.3E-01	8.5E-03	1.3E-02	1.2E-01	2.4E-01	2.6E-02	3.1E-02	6.0E-01	6.3E-01
SS J 21	2.8E-01	1.8E-02	1.3E-02	1.6E-01	2.3E-01	1.1E-01	3.9E-02	7.6E-01	8.0E-01
SS J 22	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.1E-01	2.9E-02	7.6E-01	7.9E-01
SS J 23	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.0E-01	2.4E-02	7.6E-01	7.9E-01
SS J 24	2.1E-01	1.3E-02	1.3E-02	1.4E-01	1.8E-01	2.4E-02	2.4E-02	5.6E-01	5.8E-01
SS J 25	5.8E-03	1.1E-03	3.1E-04	1.3E-03	1.8E-02	4.1E-03	3.0E-02	0.0E+00	3.1E-02
SS J 26	9.8E-03	1.1E-03	3.2E-04	3.5E-03	1.6E-02	4.0E-03	3.5E-02	0.0E+00	3.6E-02
SS J 27	1.6E-02	5.0E-05	2.9E-04	3.0E-03	1.5E-02	2.7E-03	3.7E-02	0.0E+00	3.8E-02
SS J 28	8.0E-03	1.1E-03	3.1E-04	3.5E-03	2.2E-02	4.5E-03	3.9E-02	0.0E+00	4.0E-02
SS J 29	1.5E-02	1.6E-03	4.7E-04	2.9E-03	2.8E-02	7.2E-03	5.6E-02	0.0E+00	5.7E-02
SS J 30	1.1E-02	8.0E-05	4.7E-04	1.2E-03	3.4E-02	7.5E-03	5.5E-02	0.0E+00	5.6E-02
SS J 31	7.7E-02	7.5E-05	4.4E-04	1.5E-03	4.5E-01	5.3E-03	5.3E-01	0.0E+00	5.3E-01
SS J 32	1.2E-02	1.5E-03	4.4E-04	2.4E-03	3.2E-02	6.7E-03	5.5E-02	0.0E+00	5.6E-02
SS J 33	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.6E-02	7.0E-03	4.6E-02	0.0E+00	4.7E-02

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(5)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater		
	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021			Total Risk
SS J 34	1.4E-02	7.5E-05	4.4E-04	1.4E-02	2.5E-02	5.7E-03	6.0E-02	0.0E+00	6.1E-02
SS J 35	1.5E-02	7.5E-05	4.4E-04	1.0E-02	2.7E-02	5.8E-03	5.8E-02	0.0E+00	5.9E-02
SS J 36	1.3E-02	1.6E-03	4.8E-04	1.3E-02	2.8E-02	6.9E-03	6.3E-02	0.0E+00	6.4E-02
SS K 06	2.2E-01	8.5E-03	1.3E-02	1.3E-01	2.7E-01	2.5E-02	2.8E-02	6.3E-01	6.6E-01
SS K 07	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.4E-01	2.4E-02	2.6E-02	4.9E-01	5.1E-01
SS K 08	2.2E-01	8.5E-03	1.3E-02	1.3E-01	1.3E-01	2.7E-02	3.8E-02	4.9E-01	5.2E-01
SS K 09	2.1E-01	8.5E-03	1.3E-02	1.3E-01	1.3E-01	2.6E-02	2.9E-02	4.9E-01	5.2E-01
SS K 10	2.1E-01	8.5E-03	1.3E-02	1.0E-01	1.8E-01	2.5E-02	3.3E-02	5.1E-01	5.4E-01
SS K 11	2.1E-01	8.5E-03	1.3E-02	1.0E-01	1.8E-01	2.4E-02	2.9E-02	5.1E-01	5.3E-01
SS K 12	2.1E-01	8.5E-03	1.3E-02	9.4E-02	1.8E-01	2.6E-02	2.8E-02	5.1E-01	5.3E-01
SS K 13	2.2E-01	8.5E-03	1.3E-02	8.9E-02	1.8E-01	2.5E-02	3.0E-02	5.1E-01	5.4E-01
SS K 14	2.1E-01	8.5E-03	1.3E-02	8.9E-02	1.8E-01	2.6E-02	2.8E-02	5.1E-01	5.3E-01
SS K 15	2.1E-01	8.5E-03	1.3E-02	8.9E-02	1.8E-01	2.6E-02	2.3E-02	5.1E-01	5.3E-01
SS K 16	2.1E-01	8.5E-03	1.3E-02	9.4E-02	2.1E-01	2.9E-02	5.4E-02	5.1E-01	5.6E-01
SS K 17	2.1E-01	8.5E-03	1.3E-02	8.9E-02	1.9E-01	2.6E-02	3.0E-02	5.1E-01	5.4E-01
SS K 18	2.5E-01	8.5E-03	1.3E-02	1.2E-01	2.4E-01	2.9E-02	5.1E-02	6.0E-01	6.5E-01
SS K 19	2.3E-01	8.5E-03	1.3E-02	1.2E-01	2.3E-01	2.5E-02	2.1E-02	6.0E-01	6.2E-01
SS K 20	2.3E-01	8.5E-03	1.3E-02	1.2E-01	2.3E-01	2.4E-02	1.6E-02	6.0E-01	6.2E-01
SS K 21	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.1E-01	1.0E-01	1.7E-02	7.6E-01	7.8E-01
SS K 22	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.3E-01	1.1E-01	3.6E-02	7.6E-01	8.0E-01
SS K 23	2.7E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.0E-01	2.1E-02	7.6E-01	7.8E-01
SS K 24	3.6E-03	5.0E-05	2.9E-04	1.2E-03	1.2E-02	3.6E-03	2.1E-02	0.0E+00	2.2E-02
SS K 25	4.3E-03	5.4E-05	3.2E-04	1.8E-03	1.4E-02	3.8E-03	2.4E-02	0.0E+00	2.5E-02
SS K 26	1.0E-02	5.6E-05	3.3E-04	3.0E-03	1.4E-02	3.7E-03	3.1E-02	0.0E+00	3.2E-02
SS K 27	7.9E-03	5.0E-05	2.9E-04	2.4E-03	1.4E-02	3.4E-03	2.8E-02	0.0E+00	2.9E-02
SS K 28	1.3E-02	5.7E-05	3.3E-04	1.3E-03	1.5E-02	4.2E-03	3.4E-02	0.0E+00	3.5E-02
SS K 29	2.1E-02	8.8E-05	5.2E-04	1.2E-03	2.6E-02	7.1E-03	5.6E-02	0.0E+00	5.7E-02
SS K 30	1.2E-01	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.2E-03	1.5E-01	0.0E+00	1.5E-01
SS K 31	8.3E-03	7.5E-05	4.4E-04	5.9E-03	3.0E-02	6.0E-03	5.1E-02	0.0E+00	5.2E-02
SS K 32	9.4E-03	7.5E-05	4.4E-04	2.0E-03	1.7E-02	7.2E-03	3.7E-02	0.0E+00	3.8E-02
SS K 33	9.0E-03	7.5E-05	4.4E-04	1.2E-02	2.0E-02	5.0E-03	4.7E-02	0.0E+00	4.8E-02
SS K 34	8.9E-03	7.5E-05	4.4E-04	1.1E-02	4.0E-02	6.4E-03	6.7E-02	0.0E+00	6.8E-02
SS K 35	7.8E-03	8.3E-05	4.9E-04	1.8E-02	2.1E-02	8.8E-03	5.6E-02	0.0E+00	5.7E-02
SS K 36	1.0E-02	4.2E-03	7.8E-04	6.2E-03	1.3E-01	3.0E-02	1.9E-01	0.0E+00	1.9E-01
SS L 05	4.7E-03	7.5E-05	4.4E-04	3.0E-03	1.7E-02	5.3E-03	3.1E-02	0.0E+00	3.2E-02
SS L 06	3.6E-04	7.1E-05	4.2E-04	3.0E-03	1.6E-02	4.7E-03	2.5E-02	0.0E+00	2.6E-02
SS L 07	3.8E-03	5.0E-05	2.9E-04	2.6E-03	1.8E-02	4.3E-03	2.9E-02	0.0E+00	3.0E-02
SS L 08	3.2E-03	5.5E-05	3.2E-04	1.2E-02	1.1E-02	3.9E-03	3.0E-02	0.0E+00	3.1E-02
SS L 09	5.7E-03	5.0E-05	2.9E-04	1.1E-02	6.5E-03	4.0E-03	2.7E-02	0.0E+00	2.8E-02
SS L 10	2.5E-04	5.1E-05	3.0E-04	1.1E-02	9.4E-03	4.0E-03	2.5E-02	0.0E+00	2.6E-02
SS L 11	5.4E-03	5.3E-05	3.1E-04	5.9E-03	9.2E-03	3.8E-03	2.5E-02	0.0E+00	2.6E-02
SS L 12	3.9E-03	7.4E-05	4.4E-04	3.2E-03	1.8E-02	6.3E-03	3.2E-02	0.0E+00	3.3E-02
SS L 13	3.0E-03	7.5E-05	4.4E-04	1.7E-03	1.5E-02	5.6E-03	2.6E-02	0.0E+00	2.7E-02
SS L 14	1.2E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.4E-03	2.6E-02	0.0E+00	2.7E-02
SS L 15	9.0E-03	7.5E-05	4.4E-04	1.3E-03	1.7E-02	6.3E-03	3.4E-02	0.0E+00	3.5E-02
SS L 16	1.6E-03	7.5E-05	4.4E-04	9.0E-04	1.3E-02	4.7E-03	2.0E-02	0.0E+00	2.1E-02
SS L 17	5.7E-03	1.7E-03	4.0E-04	1.0E-03	1.6E-02	4.6E-03	3.0E-02	0.0E+00	3.1E-02
SS L 18	2.3E-01	8.5E-03	1.3E-02	1.2E-01	2.3E-01	2.4E-02	2.0E-02	6.0E-01	6.2E-01
SS L 19	2.3E-01	8.5E-03	1.3E-02	1.2E-01	2.3E-01	2.3E-02	1.8E-02	6.0E-01	6.2E-01
SS L 20	2.7E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.0E-01	2.1E-02	7.6E-01	7.8E-01
SS L 21	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.6E-01	1.0E-01	5.9E-02	7.6E-01	8.2E-01

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(6)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS L 22	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.0E-01	2.4E-02	7.6E-01	7.9E-01	
SS L 23	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.1E-01	3.6E-02	7.6E-01	8.0E-01	
SS L 24	3.7E-03	5.0E-05	3.0E-04	1.8E-03	1.4E-02	3.3E-03	2.3E-02	0.0E+00	2.4E-02	
SS L 25	5.0E-03	5.4E-05	3.2E-04	2.3E-03	1.6E-02	3.6E-03	2.7E-02	0.0E+00	2.8E-02	
SS L 26	1.2E-02	5.0E-05	3.0E-04	1.9E-03	1.8E-02	3.3E-03	3.6E-02	0.0E+00	3.7E-02	
SS L 27	7.8E-03	5.9E-05	3.5E-04	1.8E-03	2.5E-02	4.9E-03	4.0E-02	0.0E+00	4.1E-02	
SS L 28	8.4E-03	7.2E-05	4.2E-04	1.2E-03	2.3E-02	6.0E-03	3.9E-02	0.0E+00	4.0E-02	
SS L 29	4.1E-02	6.8E-05	4.0E-04	6.9E-04	2.8E-01	3.1E-02	3.6E-01	0.0E+00	3.6E-01	
SS L 30	5.2E-03	7.4E-05	4.4E-04	1.0E-03	2.1E-02	7.1E-03	3.4E-02	0.0E+00	3.5E-02	
SS L 31	1.0E-02	7.5E-05	4.4E-04	6.7E-03	4.7E-02	6.1E-03	7.1E-02	0.0E+00	7.2E-02	
SS L 32	3.4E-03	7.0E-05	4.1E-04	3.4E-03	2.5E-02	5.4E-03	3.8E-02	0.0E+00	3.9E-02	
SS L 33	1.1E-02	7.4E-05	4.3E-04	3.1E-03	3.0E-02	5.5E-03	5.0E-02	0.0E+00	5.1E-02	
SS L 34	8.2E-03	7.4E-05	4.3E-04	4.4E-03	2.7E-02	6.3E-03	4.6E-02	0.0E+00	4.7E-02	
SS L 35	7.7E-03	9.4E-03	6.7E-04	3.6E-03	3.8E-01	5.2E-02	4.5E-01	0.0E+00	4.6E-01	
SS L 36	4.3E-03	2.5E-03	6.5E-04	2.1E-03	6.8E-02	1.4E-02	9.1E-02	0.0E+00	9.2E-02	
SS M 04	5.7E-03	7.5E-05	4.4E-04	1.1E-03	1.8E-02	4.9E-03	3.0E-02	0.0E+00	3.1E-02	
SS M 05	4.0E-03	7.1E-05	4.2E-04	1.7E-03	1.8E-02	5.2E-03	2.9E-02	0.0E+00	3.0E-02	
SS M 06	9.6E-03	6.5E-05	3.8E-04	1.6E-03	1.9E-02	6.0E-03	3.7E-02	0.0E+00	3.8E-02	
SS M 07	3.1E-03	5.5E-05	3.2E-04	1.8E-03	1.7E-02	4.8E-03	2.7E-02	0.0E+00	2.8E-02	
SS M 08	3.8E-03	5.2E-05	3.1E-04	1.4E-02	9.4E-03	4.1E-03	3.2E-02	0.0E+00	3.3E-02	
SS M 09	3.1E-03	5.3E-05	3.1E-04	1.5E-02	9.0E-03	4.5E-03	3.2E-02	0.0E+00	3.3E-02	
SS M 10	8.0E-03	5.1E-05	3.0E-04	6.5E-03	1.0E-02	3.7E-03	2.9E-02	0.0E+00	3.0E-02	
SS M 11	2.1E-03	5.5E-05	3.2E-04	1.1E-03	1.1E-02	4.6E-03	1.9E-02	0.0E+00	2.0E-02	
SS M 12	9.8E-03	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.6E-03	3.6E-02	0.0E+00	3.7E-02	
SS M 13	3.0E-03	7.5E-05	4.4E-04	2.8E-03	1.8E-02	6.6E-03	3.1E-02	0.0E+00	3.2E-02	
SS M 14	2.2E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	6.7E-03	3.1E-02	0.0E+00	3.2E-02	
SS M 15	3.1E-03	7.5E-05	4.4E-04	1.2E-03	1.8E-02	6.4E-03	2.9E-02	0.0E+00	3.0E-02	
SS M 16	4.2E-03	7.0E-05	4.1E-04	1.9E-03	1.3E-02	5.6E-03	2.5E-02	0.0E+00	2.6E-02	
SS M 17	2.0E-03	5.0E-05	2.9E-04	7.0E-04	9.8E-03	3.8E-03	1.7E-02	0.0E+00	1.8E-02	
SS M 18	2.3E-01	8.5E-03	1.3E-02	1.2E-01	2.3E-01	2.4E-02	2.1E-02	6.0E-01	6.2E-01	
SS M 19	2.3E-01	8.5E-03	1.3E-02	1.2E-01	2.3E-01	2.4E-02	1.7E-02	6.0E-01	6.2E-01	
SS M 20	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.1E-01	1.0E-01	2.0E-02	7.6E-01	7.8E-01	
SS M 21	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.0E-01	2.6E-02	7.6E-01	7.9E-01	
SS M 22	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.0E-01	3.0E-02	7.6E-01	7.9E-01	
SS M 23	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.1E-01	1.0E-01	2.5E-02	7.6E-01	7.9E-01	
SS M 24	5.5E-03	5.0E-05	2.9E-04	2.1E-03	1.3E-02	3.3E-03	2.4E-02	0.0E+00	2.5E-02	
SS M 25	1.7E-02	5.7E-05	3.3E-04	1.1E-03	3.1E-02	8.0E-03	5.8E-02	0.0E+00	5.9E-02	
SS M 26	1.5E-02	7.0E-05	4.1E-04	1.2E-03	1.6E-02	4.9E-03	3.8E-02	0.0E+00	3.9E-02	
SS M 27	1.3E-02	7.3E-05	4.3E-04	1.9E-03	2.3E-02	1.1E-02	4.9E-02	0.0E+00	5.0E-02	
SS M 28	4.2E-02	7.4E-05	4.3E-04	8.0E-04	2.1E-01	1.6E-02	2.7E-01	0.0E+00	2.7E-01	
SS M 29	1.8E-02	4.5E-03	3.8E-04	1.4E-03	2.5E-01	4.6E-02	3.2E-01	0.0E+00	3.3E-01	
SS M 30	2.0E-03	7.1E-05	4.2E-04	1.0E-03	1.9E-02	6.7E-03	2.9E-02	0.0E+00	3.0E-02	
SS M 31	1.8E-02	7.5E-05	4.4E-04	3.9E-03	5.2E-02	5.7E-03	8.0E-02	0.0E+00	8.1E-02	
SS M 32	1.7E-02	7.4E-05	4.3E-04	3.5E-03	7.5E-02	8.9E-03	1.1E-01	0.0E+00	1.1E-01	
SS M 33	1.8E-02	3.5E-03	4.7E-04	2.8E-03	2.1E-01	4.5E-02	2.8E-01	0.0E+00	2.8E-01	
SS M 34	1.4E-01	6.7E-02	6.9E-04	3.7E-03	3.6E+00	6.9E-01	4.5E+00	0.0E+00	4.5E+00	
SS M 35	4.3E-02	1.3E-01	8.4E-04	3.3E-03	1.7E+01	1.4E+00	1.9E+01	0.0E+00	1.9E+01	
SS M 36	1.0E-03	1.0E-04	5.9E-04	9.7E-04	6.2E-02	1.4E-02	7.8E-02	0.0E+00	7.9E-02	
SS N 03	1.8E-02	7.5E-05	4.4E-04	1.6E-03	2.5E-02	5.0E-03	4.9E-02	0.0E+00	5.0E-02	
SS N 04	4.6E-02	7.4E-05	4.3E-04	6.9E-04	3.0E-02	5.1E-03	8.2E-02	0.0E+00	8.3E-02	
SS N 05	2.5E-03	8.8E-05	5.2E-04	2.7E-03	2.6E-02	1.2E-02	4.4E-02	0.0E+00	4.5E-02	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(7)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS N 06	1.1E-03	5.6E-05	3.3E-04	2.3E-03	1.7E-02	4.5E-03	2.5E-02	0.0E+00	2.6E-02	
SS N 07	5.4E-03	5.7E-05	3.4E-04	7.3E-03	1.2E-02	4.0E-03	2.9E-02	0.0E+00	3.0E-02	
SS N 08	5.4E-03	5.2E-05	3.0E-04	1.3E-02	1.1E-02	4.2E-03	3.4E-02	0.0E+00	3.5E-02	
SS N 09	4.0E-03	5.0E-05	2.9E-04	9.9E-03	1.6E-02	3.5E-03	3.3E-02	0.0E+00	3.4E-02	
SS N 10	2.8E-03	5.0E-05	2.9E-04	2.9E-03	1.2E-02	3.5E-03	2.1E-02	0.0E+00	2.2E-02	
SS N 11	1.2E-03	5.5E-05	3.2E-04	7.4E-04	1.5E-02	5.2E-03	2.3E-02	0.0E+00	2.4E-02	
SS N 12	2.6E-03	7.5E-05	4.4E-04	5.9E-04	2.2E-02	6.6E-03	3.2E-02	0.0E+00	3.3E-02	
SS N 13	3.4E-03	7.5E-05	4.4E-04	7.0E-04	2.5E-02	5.5E-03	3.5E-02	0.0E+00	3.6E-02	
SS N 14	1.1E-03	7.5E-05	4.4E-04	1.1E-03	1.7E-02	6.4E-03	2.7E-02	0.0E+00	2.8E-02	
SS N 15	2.9E-03	7.5E-05	4.4E-04	1.5E-03	1.4E-02	6.1E-03	2.5E-02	0.0E+00	2.6E-02	
SS N 16	3.2E-03	6.7E-05	3.9E-04	7.2E-04	1.6E-02	5.4E-03	2.6E-02	0.0E+00	2.7E-02	
SS N 17	6.9E-03	5.4E-05	3.1E-04	6.1E-04	2.0E-02	5.9E-03	3.4E-02	0.0E+00	3.5E-02	
SS N 18	2.3E-01	8.5E-03	1.3E-02	1.2E-01	2.3E-01	2.6E-02	2.6E-02	6.0E-01	6.3E-01	
SS N 19	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.0E-01	2.4E-02	7.6E-01	7.9E-01	
SS N 20	2.9E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.0E-01	4.1E-02	7.6E-01	8.0E-01	
SS N 21	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.3E-01	1.1E-01	3.9E-02	7.6E-01	8.0E-01	
SS N 22	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.3E-01	1.1E-01	4.1E-02	7.6E-01	8.0E-01	
SS N 23	2.8E-01	2.0E-02	1.3E-02	1.6E-01	3.0E-01	1.2E-01	1.3E-01	7.6E-01	8.9E-01	
SS N 24	4.1E-02	9.3E-03	4.2E-04	1.8E-03	7.0E-01	9.6E-02	8.5E-01	0.0E+00	8.5E-01	
SS N 25	1.4E-01	7.5E-05	4.4E-04	1.8E-03	7.9E-01	4.2E-02	9.7E-01	0.0E+00	9.7E-01	
SS N 26	1.4E-01	3.7E-02	4.4E-04	1.2E-03	1.5E+00	4.0E-01	2.0E+00	0.0E+00	2.0E+00	
SS N 27	2.4E-01	8.3E-03	4.4E-04	2.8E-03	2.1E+00	1.8E-01	2.5E+00	0.0E+00	2.5E+00	
SS N 28	1.7E-01	2.2E-02	4.2E-04	6.0E-06	1.2E+00	2.2E-01	1.6E+00	0.0E+00	1.6E+00	
SS N 29	1.1E-02	6.5E-05	3.8E-04	1.7E-03	5.2E-02	1.0E-02	7.5E-02	0.0E+00	7.6E-02	
SS N 30	2.1E-01	1.6E-02	4.4E-04	3.4E-04	1.7E+00	2.5E-01	2.2E+00	0.0E+00	2.2E+00	
SS N 31	2.5E-01	3.0E-02	4.4E-04	1.1E-03	2.0E+00	3.7E-01	2.6E+00	0.0E+00	2.6E+00	
SS N 32	2.1E-01	9.6E-03	4.5E-04	1.2E-03	3.0E+00	2.3E-01	3.5E+00	0.0E+00	3.5E+00	
SS N 33	1.1E-01	2.9E-02	6.2E-04	2.1E-03	3.2E+00	3.3E-01	3.7E+00	0.0E+00	3.7E+00	
SS N 34	1.0E-02	5.4E-03	8.8E-04	5.2E-03	5.9E-01	7.2E-02	6.9E-01	0.0E+00	6.9E-01	
SS N 35	5.8E-02	3.0E-02	8.7E-04	2.6E-03	2.6E+00	3.5E-01	3.0E+00	0.0E+00	3.0E+00	
SS N 36	4.5E-03	1.2E-04	6.9E-04	2.9E-04	1.6E-01	2.2E-02	1.9E-01	0.0E+00	1.9E-01	
SS O 02	2.1E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	5.6E-03	7.5E-02	0.0E+00	7.6E-02	
SS O 03	2.5E-02	7.5E-05	4.4E-04	7.5E-04	4.7E-02	7.8E-03	8.1E-02	0.0E+00	8.2E-02	
SS O 04	5.8E-03	6.8E-05	4.0E-04	1.6E-03	2.2E-02	5.3E-03	3.6E-02	0.0E+00	3.7E-02	
SS O 05	5.2E-03	5.7E-05	3.4E-04	2.3E-03	2.0E-02	5.0E-03	3.3E-02	0.0E+00	3.4E-02	
SS O 06	1.9E-03	5.5E-05	3.3E-04	3.2E-03	1.7E-02	3.9E-03	2.6E-02	0.0E+00	2.7E-02	
SS O 07	8.2E-03	5.3E-05	3.1E-04	4.0E-03	2.1E-02	2.7E-03	3.7E-02	0.0E+00	3.8E-02	
SS O 08	7.5E-03	5.2E-05	3.0E-04	1.1E-02	1.4E-02	4.4E-03	3.8E-02	0.0E+00	3.9E-02	
SS O 09	1.9E-02	6.8E-05	4.0E-04	8.3E-03	1.8E-02	5.6E-03	5.1E-02	0.0E+00	5.2E-02	
SS O 10	5.3E-03	6.3E-05	3.7E-04	8.9E-03	1.8E-02	6.4E-03	3.9E-02	0.0E+00	4.0E-02	
SS O 11	2.2E-03	1.1E-04	6.3E-04	4.2E-03	8.6E-02	3.0E-02	1.2E-01	0.0E+00	1.2E-01	
SS O 12	1.1E-03	8.2E-05	4.8E-04	2.5E-03	2.4E-02	1.2E-02	4.0E-02	0.0E+00	4.1E-02	
SS O 13	2.3E-03	7.5E-05	4.4E-04	1.9E-03	2.6E-02	7.3E-03	3.8E-02	0.0E+00	3.9E-02	
SS O 14	1.5E-03	7.5E-05	4.4E-04	1.4E-03	2.3E-02	7.4E-03	3.4E-02	0.0E+00	3.5E-02	
SS O 15	3.7E-03	7.5E-05	4.4E-04	1.4E-03	3.9E-02	8.1E-03	5.2E-02	0.0E+00	5.3E-02	
SS O 16	5.8E-03	6.7E-05	3.9E-04	1.5E-03	3.2E-02	5.6E-03	4.5E-02	0.0E+00	4.6E-02	
SS O 17	5.0E-03	6.7E-05	4.0E-04	1.5E-03	3.1E-02	5.7E-03	4.3E-02	0.0E+00	4.4E-02	
SS O 18	2.4E-01	8.5E-03	1.3E-02	1.2E-01	2.5E-01	2.6E-02	5.0E-02	6.0E-01	6.5E-01	
SS O 19	2.9E-01	1.7E-02	1.3E-02	1.6E-01	2.5E-01	1.1E-01	7.5E-02	7.6E-01	8.4E-01	
SS O 20	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.3E-01	1.0E-01	4.2E-02	7.6E-01	8.1E-01	
SS O 21	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.4E-01	1.1E-01	4.6E-02	7.6E-01	8.1E-01	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(8)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS O 22	3.0E-01	1.7E-02	1.3E-02	1.6E-01	2.3E-01	1.1E-01	6.1E-02	7.6E-01	8.2E-01	
SS O 23	2.8E-01	8.5E-03	1.3E-02	1.7E-01	1.8E-01	2.6E-02	7.6E-02	6.0E-01	6.8E-01	
SS O 24	5.2E-02	6.6E-05	3.9E-04	1.9E-03	2.8E-02	6.0E-03	8.9E-02	0.0E+00	9.0E-02	
SS O 25	6.0E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	8.0E-03	1.2E-01	0.0E+00	1.2E-01	
SS O 26	2.0E-01	7.5E-05	4.4E-04	1.8E-03	5.9E-02	6.8E-03	2.7E-01	0.0E+00	2.7E-01	
SS O 27	1.4E-01	7.5E-05	4.4E-04	1.2E-03	1.8E-01	1.0E-02	3.3E-01	0.0E+00	3.3E-01	
SS O 28	1.4E-01	2.2E-02	4.4E-04	1.4E-03	8.9E-01	2.4E-01	1.3E+00	0.0E+00	1.3E+00	
SS O 29	1.6E-02	5.0E-02	4.1E-04	1.5E-03	2.4E+00	5.2E-01	3.0E+00	0.0E+00	3.0E+00	
SS O 30	3.8E-01	1.9E-02	5.1E-04	1.5E-03	1.8E+00	2.1E-01	2.4E+00	0.0E+00	2.4E+00	
SS O 31	1.0E-02	2.6E-03	5.5E-04	2.3E-03	8.7E-02	1.6E-02	1.2E-01	0.0E+00	1.2E-01	
SS O 32	2.6E-02	1.4E-04	8.1E-04	2.7E-03	8.0E-02	1.6E-02	1.3E-01	0.0E+00	1.3E-01	
SS O 33	5.3E-02	1.5E-04	8.7E-04	4.8E-03	1.2E-01	2.5E-02	2.1E-01	0.0E+00	2.1E-01	
SS O 34	2.2E-02	1.4E-04	8.0E-04	3.3E-03	5.2E-01	3.9E-02	5.9E-01	0.0E+00	5.9E-01	
SS O 35	2.3E-02	1.1E-04	6.5E-04	1.0E-03	5.5E-02	1.5E-02	9.5E-02	0.0E+00	9.6E-02	
SS O 36	6.6E-03	9.6E-05	5.7E-04	4.3E-04	4.1E-02	1.2E-02	6.1E-02	0.0E+00	6.2E-02	
SS P 01	5.7E-03	3.0E-04	4.4E-04	3.1E-03	2.3E-02	7.1E-03	4.0E-02	0.0E+00	4.1E-02	
SS P 02	9.2E-03	7.5E-04	4.4E-04	8.7E-04	2.5E-02	6.9E-03	4.3E-02	0.0E+00	4.4E-02	
SS P 03	2.5E-03	4.9E-04	3.6E-04	1.4E-03	1.6E-02	6.2E-03	2.7E-02	0.0E+00	2.8E-02	
SS P 04	8.5E-03	2.4E-04	3.5E-04	2.6E-03	1.5E-02	4.7E-03	3.1E-02	0.0E+00	3.2E-02	
SS P 05	3.6E-03	1.1E-04	3.2E-04	3.1E-03	1.3E-02	4.3E-03	2.4E-02	0.0E+00	2.5E-02	
SS P 06	5.3E-03	2.1E-04	3.1E-04	5.0E-03	1.4E-02	5.1E-03	3.0E-02	0.0E+00	3.1E-02	
SS P 07	4.4E-03	8.0E-04	2.9E-04	2.9E-03	1.6E-02	4.9E-03	3.0E-02	0.0E+00	3.1E-02	
SS P 08	1.2E-02	3.4E-04	3.3E-04	3.7E-03	1.5E-02	4.8E-03	3.6E-02	0.0E+00	3.7E-02	
SS P 09	1.3E-03	3.6E-04	3.5E-04	4.6E-04	1.5E-02	6.4E-03	2.4E-02	0.0E+00	2.5E-02	
SS P 10	2.8E-03	1.6E-03	4.3E-04	1.8E-03	1.9E-02	8.3E-03	3.4E-02	0.0E+00	3.5E-02	
SS P 11	2.1E-03	3.0E-04	4.4E-04	7.5E-04	1.4E-02	8.3E-03	2.6E-02	0.0E+00	2.7E-02	
SS P 12	1.7E-03	6.0E-04	4.4E-04	1.2E-03	1.9E-02	7.6E-03	3.0E-02	0.0E+00	3.1E-02	
SS P 13	3.3E-03	7.5E-04	4.4E-04	1.8E-03	2.0E-02	6.8E-03	3.3E-02	0.0E+00	3.4E-02	
SS P 14	2.6E-02	1.5E-04	4.4E-04	1.9E-03	6.5E-02	8.8E-03	1.0E-01	0.0E+00	1.0E-01	
SS P 15	5.5E-03	4.4E-04	4.3E-04	1.3E-03	2.5E-02	6.5E-03	3.9E-02	0.0E+00	4.0E-02	
SS P 16	4.6E-03	1.3E-04	3.8E-04	1.0E-03	2.1E-02	5.7E-03	3.3E-02	0.0E+00	3.4E-02	
SS P 17	2.0E-02	0.0E+00	3.8E-04	2.6E-03	4.5E-02	6.9E-03	7.4E-02	0.0E+00	7.5E-02	
SS P 18	2.9E-01	1.7E-02	1.3E-02	1.6E-01	2.4E-01	1.1E-01	5.9E-02	7.6E-01	8.2E-01	
SS P 19	2.9E-01	1.7E-02	1.3E-02	1.6E-01	2.4E-01	1.1E-01	6.5E-02	7.6E-01	8.3E-01	
SS P 20	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.2E-01	1.1E-01	3.5E-02	7.6E-01	8.0E-01	
SS P 21	3.5E-01	1.7E-02	1.3E-02	1.7E-01	1.6E+00	1.5E-01	1.7E+00	6.0E-01	2.3E+00	
SS P 22	2.4E-01	1.0E-02	1.3E-02	1.7E-01	1.9E-01	2.7E-02	5.2E-02	6.0E-01	6.5E-01	
SS P 23	2.5E-01	8.4E-03	1.3E-02	1.7E-01	1.8E-01	2.7E-02	5.1E-02	6.0E-01	6.5E-01	
SS P 24	1.3E-02	5.5E-04	4.0E-04	1.8E-03	2.1E-02	6.9E-03	4.4E-02	0.0E+00	4.5E-02	
SS P 25	3.5E-02	1.4E-04	4.1E-04	1.4E-03	3.2E-02	7.0E-03	7.5E-02	0.0E+00	7.6E-02	
SS P 26	7.5E-02	5.1E-04	3.8E-04	2.5E-03	3.3E-02	7.1E-03	1.2E-01	0.0E+00	1.2E-01	
SS P 27	4.6E-02	1.1E-04	3.2E-04	1.5E-03	5.2E-02	6.2E-03	1.1E-01	0.0E+00	1.1E-01	
SS P 28	3.6E-02	1.0E-04	5.9E-04	7.6E-04	5.0E-01	1.7E-02	5.6E-01	0.0E+00	5.6E-01	
SS P 29	3.2E-02	1.2E-04	7.1E-04	3.0E-03	1.0E+00	2.9E-02	1.1E+00	0.0E+00	1.1E+00	
SS P 30	4.6E-02	1.2E-04	7.0E-04	5.0E-03	1.2E-01	1.5E-02	1.8E-01	0.0E+00	1.8E-01	
SS P 31	5.2E-02	1.4E-04	8.3E-04	4.5E-03	8.2E-02	1.3E-02	1.5E-01	0.0E+00	1.5E-01	
SS P 32	1.6E-01	1.5E-04	8.6E-04	4.4E-03	1.1E-01	1.4E-02	2.8E-01	0.0E+00	2.8E-01	
SS P 33	1.3E-02	1.2E-04	7.1E-04	2.3E-03	1.2E-01	2.4E-02	1.6E-01	0.0E+00	1.6E-01	
SS P 34	4.2E-05	8.3E-05	4.9E-04	3.7E-04	2.8E-02	8.0E-03	3.7E-02	0.0E+00	3.8E-02	
SS P 35	1.3E-02	7.5E-05	4.4E-04	4.4E-04	2.5E-02	7.3E-03	4.6E-02	0.0E+00	4.7E-02	
SS P 36	3.1E-03	7.4E-05	4.3E-04	8.5E-04	2.9E-02	7.7E-03	4.1E-02	0.0E+00	4.2E-02	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(9)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS Q 01	2.2E-01	9.0E-03	1.3E-02	1.2E-01	1.8E-01	2.7E-02	4.6E-02	5.3E-01	5.7E-01	
SS Q 02	2.1E-01	8.7E-03	1.3E-02	1.2E-01	1.7E-01	2.6E-02	2.8E-02	5.3E-01	5.5E-01	
SS Q 03	2.1E-01	8.8E-03	1.3E-02	1.2E-01	1.7E-01	2.6E-02	2.8E-02	5.3E-01	5.5E-01	
SS Q 04	2.1E-01	8.8E-03	1.3E-02	1.2E-01	1.7E-01	2.4E-02	2.5E-02	5.3E-01	5.5E-01	
SS Q 05	2.1E-01	8.6E-03	1.3E-02	1.3E-01	1.7E-01	2.4E-02	2.8E-02	5.3E-01	5.5E-01	
SS Q 06	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.4E-02	2.5E-02	5.3E-01	5.5E-01	
SS Q 07	5.3E-03	2.0E-04	2.9E-04	2.9E-03	1.3E-02	3.6E-03	2.5E-02	0.0E+00	2.6E-02	
SS Q 08	6.0E-03	1.0E-04	3.1E-04	1.5E-03	1.3E-02	4.1E-03	2.5E-02	0.0E+00	2.6E-02	
SS Q 09	4.9E-03	1.1E-04	3.2E-04	2.3E-03	1.3E-02	4.6E-03	2.5E-02	0.0E+00	2.6E-02	
SS Q 10	1.8E-03	3.0E-04	4.4E-04	1.8E-03	1.8E-02	6.3E-03	2.9E-02	0.0E+00	3.0E-02	
SS Q 11	2.9E-03	7.5E-04	4.4E-04	1.3E-03	2.2E-02	6.3E-03	3.3E-02	0.0E+00	3.4E-02	
SS Q 12	3.8E-05	7.5E-04	4.4E-04	1.6E-03	1.4E-02	5.7E-03	2.3E-02	0.0E+00	2.4E-02	
SS Q 13	1.7E-03	6.0E-04	4.4E-04	1.4E-03	2.3E-02	6.4E-03	3.4E-02	0.0E+00	3.5E-02	
SS Q 14	1.2E-02	7.5E-04	4.4E-04	2.0E-03	4.7E-02	7.7E-03	7.0E-02	0.0E+00	7.1E-02	
SS Q 15	6.8E-03	9.2E-04	3.9E-04	1.9E-03	2.2E-02	5.7E-03	3.8E-02	0.0E+00	3.9E-02	
SS Q 16	1.7E-02	2.9E-04	4.2E-04	2.0E-03	3.8E-02	7.5E-03	6.5E-02	0.0E+00	6.6E-02	
SS Q 17	1.6E-02	6.4E-04	3.8E-04	3.4E-03	4.8E-02	6.1E-03	7.5E-02	0.0E+00	7.6E-02	
SS Q 18	2.9E-01	1.7E-02	1.3E-02	1.6E-01	2.5E-01	1.1E-01	7.3E-02	7.6E-01	8.4E-01	
SS Q 19	2.8E-01	1.7E-02	1.3E-02	1.6E-01	2.4E-01	1.1E-01	5.1E-02	7.6E-01	8.1E-01	
SS Q 20	2.9E-01	1.0E-02	1.3E-02	1.7E-01	7.7E-01	7.2E-02	7.3E-01	6.0E-01	1.3E+00	
SS Q 21	2.6E-01	9.1E-03	1.3E-02	1.7E-01	1.9E-01	2.9E-02	7.7E-02	6.0E-01	6.8E-01	
SS Q 22	2.8E-01	8.5E-03	1.3E-02	1.7E-01	1.9E-01	2.8E-02	9.4E-02	6.0E-01	6.9E-01	
SS Q 23	2.5E-01	1.0E-02	1.3E-02	1.7E-01	2.5E-01	3.3E-02	1.3E-01	6.0E-01	7.3E-01	
SS Q 24	2.9E-02	4.7E-04	4.6E-04	2.4E-03	1.2E-01	1.1E-02	1.7E-01	0.0E+00	1.7E-01	
SS Q 25	1.6E-02	2.1E-04	3.1E-04	1.4E-03	4.8E-02	6.1E-03	7.1E-02	0.0E+00	7.2E-02	
SS Q 26	1.6E-02	3.0E-04	2.9E-04	6.9E-04	3.2E-02	6.0E-03	5.5E-02	0.0E+00	5.6E-02	
SS Q 27	6.7E-02	3.0E-04	2.9E-04	1.1E-03	2.7E-02	5.2E-03	1.0E-01	0.0E+00	1.0E-01	
SS Q 28	2.4E-02	6.7E-05	3.9E-04	6.1E-04	3.9E-02	8.4E-03	7.2E-02	0.0E+00	7.3E-02	
SS Q 29	1.1E-02	1.2E-03	3.6E-04	1.5E-03	4.6E-02	7.9E-03	6.7E-02	0.0E+00	6.8E-02	
SS Q 30	9.6E-03	5.7E-05	3.4E-04	1.3E-03	3.1E-02	8.7E-03	5.1E-02	0.0E+00	5.2E-02	
SS Q 31	9.4E-03	6.3E-05	3.7E-04	1.3E-03	3.3E-02	9.8E-03	5.4E-02	0.0E+00	5.5E-02	
SS Q 32	5.3E-03	7.5E-04	4.4E-04	1.5E-03	3.6E-02	1.0E-02	5.4E-02	0.0E+00	5.5E-02	
SS Q 33	3.6E-03	1.4E-03	4.6E-04	1.1E-03	2.5E-02	7.6E-03	3.9E-02	0.0E+00	4.0E-02	
SS R 01	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	2.5E-02	2.9E-02	5.3E-01	5.6E-01	
SS R 02	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.4E-02	2.3E-02	5.3E-01	5.5E-01	
SS R 03	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.5E-02	2.9E-02	5.3E-01	5.5E-01	
SS R 04	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	2.7E-02	3.7E-02	5.3E-01	5.6E-01	
SS R 05	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	2.7E-02	4.2E-02	5.3E-01	5.7E-01	
SS R 06	2.2E-01	8.5E-03	1.3E-02	8.9E-02	1.9E-01	2.5E-02	3.3E-02	5.1E-01	5.4E-01	
SS R 07	4.9E-03	5.2E-05	3.1E-04	2.9E-03	1.9E-02	5.1E-03	3.3E-02	0.0E+00	3.4E-02	
SS R 08	6.0E-03	6.1E-05	3.6E-04	3.0E-03	2.1E-02	5.9E-03	3.6E-02	0.0E+00	3.7E-02	
SS R 09	1.9E-03	6.7E-05	4.0E-04	1.4E-03	2.2E-02	7.1E-03	3.3E-02	0.0E+00	3.4E-02	
SS R 10	3.1E-03	7.5E-05	4.4E-04	1.3E-03	2.2E-02	7.6E-03	3.4E-02	0.0E+00	3.5E-02	
SS R 11	2.2E-03	7.5E-05	4.4E-04	1.8E-03	2.6E-02	7.2E-03	3.8E-02	0.0E+00	3.9E-02	
SS R 12	1.1E-03	7.2E-05	4.3E-04	1.5E-03	1.9E-02	6.0E-03	2.8E-02	0.0E+00	2.9E-02	
SS R 13	1.2E-03	7.1E-05	4.2E-04	1.5E-03	3.0E-02	6.8E-03	4.0E-02	0.0E+00	4.1E-02	
SS R 14	1.6E-03	6.0E-03	4.3E-04	2.3E-03	3.9E-01	5.4E-02	4.6E-01	0.0E+00	4.6E-01	
SS R 15	5.1E-03	2.1E-02	5.1E-04	1.8E-03	1.5E+00	2.1E-01	1.7E+00	0.0E+00	1.7E+00	
SS R 16	1.4E-03	7.4E-03	3.9E-04	1.7E-03	4.9E-01	7.5E-02	5.8E-01	0.0E+00	5.8E-01	
SS R 17	9.1E-03	6.5E-05	3.8E-04	9.5E-04	5.4E-02	8.1E-03	7.3E-02	0.0E+00	7.4E-02	
SS R 18	2.8E-01	1.9E-02	1.3E-02	1.6E-01	3.3E-01	1.0E-01	1.4E-01	7.6E-01	9.0E-01	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(10)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS R 19	2.4E-01	8.5E-03	1.3E-02	1.7E-01	2.0E-01	2.9E-02	6.8E-02	6.0E-01	6.7E-01	
SS R 20	2.5E-01	8.5E-03	1.3E-02	1.7E-01	2.0E-01	3.5E-02	8.3E-02	6.0E-01	6.8E-01	
SS R 21	2.5E-01	8.5E-03	1.3E-02	1.8E-01	1.9E-01	2.9E-02	6.9E-02	6.0E-01	6.7E-01	
SS R 22	2.6E-01	8.5E-03	1.3E-02	1.7E-01	2.2E-01	3.3E-02	1.1E-01	6.0E-01	7.0E-01	
SS R 23	2.6E-01	8.5E-03	1.3E-02	1.7E-01	1.9E-01	2.9E-02	7.4E-02	6.0E-01	6.7E-01	
SS R 24	3.6E-02	7.3E-05	4.3E-04	5.5E-04	2.4E-02	7.5E-03	6.9E-02	0.0E+00	7.0E-02	
SS R 25	3.1E-01	3.1E-03	3.3E-04	8.9E-04	2.6E-02	6.0E-03	3.5E-01	0.0E+00	3.5E-01	
SS R 26	8.0E-02	1.0E-03	2.9E-04	8.0E-04	2.2E-02	4.2E-03	1.1E-01	0.0E+00	1.1E-01	
SS R 27	5.7E-02	5.3E-05	3.1E-04	9.3E-04	2.0E-02	6.0E-03	8.4E-02	0.0E+00	8.5E-02	
SS R 28	3.4E-02	7.1E-05	4.2E-04	1.4E-03	4.0E-02	9.1E-03	8.4E-02	0.0E+00	8.5E-02	
SS R 29	1.2E-02	5.0E-05	3.0E-04	1.3E-03	1.8E-02	4.6E-03	3.7E-02	0.0E+00	3.8E-02	
SS R 30	1.5E-02	5.0E-05	2.9E-04	1.2E-03	2.3E-02	4.0E-03	4.4E-02	0.0E+00	4.5E-02	
SS R 31	4.9E-03	5.8E-05	3.4E-04	9.1E-04	2.3E-02	7.0E-03	3.6E-02	0.0E+00	3.7E-02	
SS R 32	5.4E-03	7.4E-05	4.4E-04	1.0E-03	4.5E-02	9.2E-03	6.1E-02	0.0E+00	6.2E-02	
SS R 33	5.5E-03	7.5E-05	4.4E-04	9.6E-04	2.6E-02	6.7E-03	3.9E-02	0.0E+00	4.0E-02	
SS S 01	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.4E-02	2.8E-02	5.3E-01	5.5E-01	
SS S 02	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.4E-02	2.5E-02	5.3E-01	5.5E-01	
SS S 03	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.5E-02	2.5E-02	5.3E-01	5.5E-01	
SS S 04	2.1E-01	8.5E-03	1.3E-02	1.2E-01	2.0E-01	2.7E-02	5.7E-02	5.3E-01	5.8E-01	
SS S 05	2.1E-01	1.1E-02	1.3E-02	9.1E-02	2.3E-01	3.6E-02	9.1E-02	5.1E-01	6.0E-01	
SS S 06	2.2E-01	1.2E-02	1.3E-02	9.0E-02	3.0E-01	5.1E-02	1.8E-01	5.1E-01	6.8E-01	
SS S 07	7.4E-03	5.9E-03	3.3E-04	2.6E-03	3.0E-01	5.2E-02	3.7E-01	0.0E+00	3.7E-01	
SS S 08	7.9E-03	4.0E-03	3.9E-04	3.4E-03	1.5E-01	3.1E-02	1.9E-01	0.0E+00	1.9E-01	
SS S 09	1.9E-02	1.2E-02	4.1E-04	2.1E-03	6.3E-01	9.9E-02	7.7E-01	0.0E+00	7.7E-01	
SS S 10	2.7E-02	1.2E-02	4.2E-04	1.7E-03	8.4E-01	1.2E-01	1.0E+00	0.0E+00	1.0E+00	
SS S 11	1.4E-02	1.2E-02	4.0E-04	2.3E-03	5.4E-01	1.1E-01	6.7E-01	0.0E+00	6.8E-01	
SS S 12	1.8E-02	9.3E-03	3.5E-04	1.9E-03	5.2E-01	8.6E-02	6.3E-01	0.0E+00	6.3E-01	
SS S 13	4.5E-02	9.1E-03	3.8E-04	1.7E-03	6.7E-01	9.2E-02	8.2E-01	0.0E+00	8.2E-01	
SS S 14	1.7E-02	5.7E-03	4.2E-04	2.3E-03	3.4E-01	5.1E-02	4.1E-01	0.0E+00	4.1E-01	
SS S 15	5.6E-02	1.4E-02	3.7E-04	1.4E-03	9.6E-01	1.5E-01	1.2E+00	0.0E+00	1.2E+00	
SS S 16	2.5E-02	6.7E-03	3.7E-04	1.7E-03	4.0E-01	6.8E-02	5.1E-01	0.0E+00	5.1E-01	
SS S 17	5.9E-02	9.6E-03	4.0E-04	1.2E-03	8.8E-01	1.0E-01	1.0E+00	0.0E+00	1.0E+00	
SS S 18	1.1E-02	4.1E-03	4.1E-04	2.6E-03	2.2E-01	3.4E-02	2.7E-01	0.0E+00	2.7E-01	
SS S 19	8.4E-03	6.5E-05	3.8E-04	1.5E-03	2.7E-02	7.0E-03	4.4E-02	0.0E+00	4.5E-02	
SS S 20	1.2E-02	6.7E-05	3.9E-04	3.2E-03	3.1E-02	7.0E-03	5.3E-02	0.0E+00	5.4E-02	
SS S 21	4.0E-02	1.2E-03	4.4E-04	5.6E-04	1.6E-02	7.7E-03	6.6E-02	0.0E+00	6.7E-02	
SS S 22	4.4E-02	1.1E-03	4.4E-04	2.7E-03	3.5E-02	1.1E-02	9.3E-02	0.0E+00	9.4E-02	
SS S 23	5.6E-01	3.5E-03	4.4E-04	1.7E-03	2.5E-02	7.7E-03	6.0E-01	0.0E+00	6.0E-01	
SS S 24	1.0E-01	1.0E-03	4.4E-04	1.4E-03	3.0E-02	7.1E-03	1.4E-01	0.0E+00	1.4E-01	
SS S 25	8.8E-02	9.9E-04	3.6E-04	2.1E-03	2.4E-02	9.1E-03	1.2E-01	0.0E+00	1.3E-01	
SS S 26	9.1E-02	1.0E-03	3.4E-04	8.3E-04	1.4E-02	5.2E-03	1.1E-01	0.0E+00	1.1E-01	
SS S 27	8.8E-02	1.0E-03	3.8E-04	7.2E-04	2.4E-02	8.0E-03	1.2E-01	0.0E+00	1.2E-01	
SS S 28	7.8E-03	1.2E-03	3.4E-04	2.2E-03	2.4E-02	6.5E-03	4.2E-02	0.0E+00	4.3E-02	
SS S 29	3.0E-03	5.0E-05	2.9E-04	2.2E-03	1.7E-02	4.2E-03	2.7E-02	0.0E+00	2.8E-02	
SS S 30	6.1E-03	1.2E-03	3.0E-04	1.5E-03	5.0E-02	8.5E-03	6.8E-02	0.0E+00	6.9E-02	
SS S 31	9.1E-03	1.5E-03	3.9E-04	1.2E-03	9.6E-02	1.1E-02	1.2E-01	0.0E+00	1.2E-01	
SS S 32	5.9E-03	7.5E-05	4.4E-04	8.0E-04	3.2E-02	1.1E-02	5.0E-02	0.0E+00	5.1E-02	
SS S 33	1.5E-02	1.8E-03	4.4E-04	9.0E-04	3.3E-02	1.1E-02	6.3E-02	0.0E+00	6.4E-02	
SS T 01	2.2E-01	9.6E-03	1.3E-02	1.2E-01	1.8E-01	2.7E-02	4.0E-02	5.3E-01	5.7E-01	
SS T 02	2.1E-01	9.8E-03	1.3E-02	1.2E-01	1.9E-01	2.9E-02	5.4E-02	5.3E-01	5.8E-01	
SS T 03	2.1E-01	1.0E-02	1.3E-02	1.2E-01	1.9E-01	3.2E-02	5.8E-02	5.3E-01	5.8E-01	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(11)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS T 04	2.1E-01	9.6E-03	1.3E-02	1.2E-01	1.9E-01	3.0E-02	5.0E-02	5.3E-01	5.8E-01	
SS T 05	2.3E-01	2.1E-02	1.3E-02	9.0E-02	7.3E-01	1.2E-01	7.0E-01	5.1E-01	1.2E+00	
SS T 06	2.3E-01	1.6E-02	1.3E-02	8.9E-02	5.4E-01	8.7E-02	4.7E-01	5.1E-01	9.7E-01	
SS T 07	1.8E-02	8.0E-03	4.2E-04	1.7E-03	3.0E-01	6.5E-02	3.9E-01	0.0E+00	3.9E-01	
SS T 08	1.8E-02	5.0E-03	3.9E-04	1.0E-03	3.0E-01	4.5E-02	3.7E-01	0.0E+00	3.8E-01	
SS T 09	4.0E-02	1.4E-02	4.2E-04	1.3E-03	7.4E-01	1.2E-01	9.2E-01	0.0E+00	9.3E-01	
SS T 10	1.2E-02	1.3E-02	4.4E-04	1.6E-03	6.1E-01	1.1E-01	7.4E-01	0.0E+00	7.4E-01	
SS T 11	1.5E-02	3.6E-03	4.1E-04	2.4E-03	2.0E-01	3.4E-02	2.6E-01	0.0E+00	2.6E-01	
SS T 12	9.8E-03	7.2E-05	4.2E-04	1.3E-03	2.2E-02	7.4E-03	4.1E-02	0.0E+00	4.2E-02	
SS T 13	8.1E-03	7.4E-05	4.4E-04	1.2E-03	2.1E-02	7.5E-03	3.8E-02	0.0E+00	3.9E-02	
SS T 14	1.7E-02	7.2E-05	4.2E-04	1.1E-03	1.8E-02	7.1E-03	4.4E-02	0.0E+00	4.5E-02	
SS T 15	1.6E-03	7.6E-05	4.5E-04	1.0E-03	1.4E-02	6.2E-03	2.4E-02	0.0E+00	2.5E-02	
SS T 16	4.6E-03	9.2E-05	5.4E-04	1.3E-03	3.0E-02	1.3E-02	4.9E-02	0.0E+00	5.0E-02	
SS T 17	6.3E-03	6.8E-05	4.0E-04	5.2E-04	1.7E-02	7.1E-03	3.1E-02	0.0E+00	3.2E-02	
SS T 18	1.7E-02	6.9E-05	4.1E-04	1.1E-03	2.2E-02	7.4E-03	4.8E-02	0.0E+00	4.9E-02	
SS T 19	1.0E-02	2.0E-03	4.0E-04	1.3E-03	1.4E-01	2.0E-02	1.8E-01	0.0E+00	1.8E-01	
SS T 20	1.1E-02	1.6E-03	3.6E-04	1.2E-03	1.3E-01	1.7E-02	1.7E-01	0.0E+00	1.7E-01	
SS T 21	3.9E-02	6.9E-05	4.1E-04	1.6E-03	1.4E-01	2.3E-02	2.1E-01	0.0E+00	2.1E-01	
SS T 22	7.9E-02	7.4E-05	4.3E-04	1.2E-03	1.5E-02	6.1E-03	1.0E-01	0.0E+00	1.0E-01	
SS T 23	2.6E-01	7.4E-05	4.4E-04	8.5E-04	1.4E-02	5.5E-03	2.8E-01	0.0E+00	2.8E-01	
SS T 24	5.1E-01	3.3E-03	4.4E-04	2.0E-03	2.3E-02	8.1E-03	5.4E-01	0.0E+00	5.4E-01	
SS T 25	2.0E-02	7.5E-05	4.4E-04	1.4E-03	1.8E-02	7.7E-03	4.8E-02	0.0E+00	4.9E-02	
SS T 26	4.3E-02	7.1E-05	4.2E-04	7.6E-04	1.4E-02	5.8E-03	6.4E-02	0.0E+00	6.5E-02	
SS T 27	2.3E-02	7.1E-05	4.2E-04	1.4E-03	2.9E-02	8.5E-03	6.3E-02	0.0E+00	6.4E-02	
SS T 28	5.7E-03	6.1E-05	3.6E-04	3.3E-03	1.5E-02	5.0E-03	2.9E-02	0.0E+00	3.0E-02	
SS T 29	5.3E-03	5.0E-05	2.9E-04	1.8E-03	1.5E-02	4.1E-03	2.7E-02	0.0E+00	2.8E-02	
SS T 30	6.8E-03	5.6E-05	3.3E-04	1.4E-03	2.1E-02	5.7E-03	3.5E-02	0.0E+00	3.6E-02	
SS T 31	8.7E-03	7.5E-05	4.4E-04	1.0E-03	2.8E-02	8.7E-03	4.7E-02	0.0E+00	4.8E-02	
SS T 32	2.4E-02	6.2E-03	4.4E-04	7.9E-04	3.5E-01	7.0E-02	4.5E-01	0.0E+00	4.5E-01	
SS T 33	6.3E-02	7.5E-05	4.4E-04	5.2E-04	2.7E-02	1.0E-02	1.0E-01	0.0E+00	1.0E-01	
SS U 01	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	2.6E-02	3.8E-02	5.3E-01	5.6E-01	
SS U 02	2.1E-01	1.1E-02	1.3E-02	1.2E-01	2.7E-01	4.6E-02	1.5E-01	5.3E-01	6.8E-01	
SS U 03	2.2E-01	1.2E-02	1.3E-02	1.2E-01	3.1E-01	5.2E-02	2.0E-01	5.3E-01	7.2E-01	
SS U 04	2.2E-01	1.3E-02	1.3E-02	8.9E-02	3.4E-01	6.6E-02	2.4E-01	5.1E-01	7.5E-01	
SS U 05	2.2E-01	1.4E-02	1.3E-02	9.0E-02	4.0E-01	7.4E-02	3.1E-01	5.1E-01	8.1E-01	
SS U 06	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.9E-01	2.9E-02	4.5E-02	5.2E-01	5.7E-01	
SS U 07	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.9E-01	3.3E-02	5.7E-02	5.2E-01	5.8E-01	
SS U 08	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.5E-02	3.3E-02	5.2E-01	5.6E-01	
SS U 09	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	3.0E-02	5.8E-02	5.2E-01	5.8E-01	
SS U 10	2.4E-01	8.5E-03	1.3E-02	1.2E-01	1.9E-01	3.2E-02	7.7E-02	5.2E-01	6.0E-01	
SS U 11	2.4E-02	7.5E-05	4.4E-04	2.0E-03	3.0E-02	1.1E-02	6.8E-02	0.0E+00	6.9E-02	
SS U 12	9.1E-03	1.6E-03	4.4E-04	2.1E-03	3.0E-02	7.0E-03	5.0E-02	0.0E+00	5.1E-02	
SS U 13	6.2E-03	1.5E-03	4.4E-04	1.5E-03	4.5E-02	9.9E-03	6.4E-02	0.0E+00	6.5E-02	
SS U 14	6.8E-03	7.5E-05	4.4E-04	1.2E-03	5.7E-02	8.4E-03	7.4E-02	0.0E+00	7.5E-02	
SS U 15	5.6E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.9E-02	0.0E+00	6.0E-02	
SS U 16	3.0E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.7E-02	0.0E+00	5.8E-02	
SS U 17	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.8E-02	3.5E-03	3.8E-02	0.0E+00	3.9E-02	
SS U 18	1.1E-02	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	6.5E-02	0.0E+00	6.6E-02	
SS U 19	8.3E-03	1.6E-03	4.3E-04	1.1E-03	4.4E-02	5.5E-03	6.1E-02	0.0E+00	6.2E-02	
SS U 20	5.0E-03	6.8E-05	4.0E-04	9.9E-04	1.6E-02	6.7E-03	2.9E-02	0.0E+00	3.0E-02	
SS U 21	3.0E-02	7.0E-05	4.1E-04	1.2E-03	1.8E-02	8.2E-03	5.8E-02	0.0E+00	5.9E-02	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(12)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS U 22	1.2E-02	1.8E-03	3.8E-04	2.3E-03	1.6E-01	2.3E-02	2.0E-01	0.0E+00	2.0E-01	
SS U 23	4.6E-02	1.5E-03	4.2E-04	9.6E-04	2.3E-01	2.8E-02	3.0E-01	0.0E+00	3.1E-01	
SS U 24	1.3E-01	6.8E-05	4.0E-04	1.1E-03	2.5E-02	9.1E-03	1.6E-01	0.0E+00	1.6E-01	
SS U 25	5.3E-02	7.4E-05	4.4E-04	9.1E-04	1.4E-02	4.4E-03	7.2E-02	0.0E+00	7.3E-02	
SS U 26	8.4E-02	7.5E-05	4.4E-04	6.0E-04	1.3E-02	4.3E-03	1.0E-01	0.0E+00	1.0E-01	
SS U 27	5.3E-01	1.4E-03	4.4E-04	8.2E-04	1.7E-02	4.4E-03	5.6E-01	0.0E+00	5.6E-01	
SS U 28	8.2E-03	6.9E-05	4.0E-04	2.3E-03	1.4E-01	1.2E-02	1.6E-01	0.0E+00	1.6E-01	
SS U 29	1.1E-02	6.1E-05	3.6E-04	2.0E-03	2.8E-02	6.0E-03	4.7E-02	0.0E+00	4.8E-02	
SS U 30	3.1E-02	6.4E-03	4.2E-04	1.2E-03	6.6E-01	6.7E-02	7.7E-01	0.0E+00	7.7E-01	
SS U 31	7.0E-02	7.5E-05	4.4E-04	5.3E-04	2.0E-02	9.6E-03	1.0E-01	0.0E+00	1.0E-01	
SS U 32	8.5E-02	7.5E-05	4.4E-04	8.5E-04	1.7E-02	7.6E-03	1.1E-01	0.0E+00	1.1E-01	
SS U 33	6.0E-02	7.5E-05	4.4E-04	1.2E-03	2.3E-02	7.1E-03	9.1E-02	0.0E+00	9.2E-02	
SS V 01	2.2E-01	1.1E-02	1.3E-02	1.2E-01	3.3E-01	5.0E-02	2.2E-01	5.3E-01	7.5E-01	
SS V 02	2.2E-01	1.3E-02	1.3E-02	1.2E-01	3.6E-01	7.7E-02	2.9E-01	5.3E-01	8.1E-01	
SS V 03	2.2E-01	1.2E-02	1.3E-02	1.2E-01	3.3E-01	5.9E-02	2.3E-01	5.2E-01	7.5E-01	
SS V 04	2.2E-01	1.4E-02	1.3E-02	1.2E-01	3.8E-01	7.0E-02	2.9E-01	5.2E-01	8.2E-01	
SS V 05	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	3.4E-02	5.7E-02	5.2E-01	5.8E-01	
SS V 06	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	2.9E-02	4.5E-02	5.2E-01	5.7E-01	
SS V 07	2.4E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	3.2E-02	6.7E-02	5.2E-01	5.9E-01	
SS V 08	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	2.6E-02	4.1E-02	5.2E-01	5.6E-01	
SS V 09	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.7E-02	4.1E-02	5.2E-01	5.6E-01	
SS V 10	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.9E-02	4.4E-02	5.2E-01	5.7E-01	
SS V 11	5.2E-03	7.1E-05	4.2E-04	7.1E-04	1.7E-02	6.0E-03	3.0E-02	0.0E+00	3.1E-02	
SS V 12	8.5E-03	7.2E-05	4.2E-04	6.0E-04	1.8E-02	5.8E-03	3.3E-02	0.0E+00	3.4E-02	
SS V 13	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.2E-02	5.4E-03	3.4E-02	0.0E+00	3.5E-02	
SS V 14	8.0E-03	7.5E-05	4.4E-04	8.6E-04	1.4E-02	6.6E-03	3.0E-02	0.0E+00	3.1E-02	
SS V 15	2.8E-03	7.5E-05	4.4E-04	1.1E-03	7.9E-03	5.5E-03	1.8E-02	0.0E+00	1.9E-02	
SS V 16	1.2E-02	7.5E-05	4.4E-04	2.6E-04	2.8E-02	4.6E-03	4.6E-02	0.0E+00	4.7E-02	
SS V 17	5.6E-03	7.5E-05	4.4E-04	4.2E-03	1.8E-02	6.5E-03	3.5E-02	0.0E+00	3.6E-02	
SS V 18	5.1E-03	7.5E-05	4.4E-04	1.9E-03	2.3E-02	7.8E-03	3.9E-02	0.0E+00	4.0E-02	
SS V 19	1.5E-03	7.5E-05	4.4E-04	8.7E-04	1.3E-02	7.2E-03	2.3E-02	0.0E+00	2.4E-02	
SS V 20	5.6E-03	7.5E-05	4.4E-04	1.5E-03	1.5E-02	7.1E-03	3.0E-02	0.0E+00	3.1E-02	
SS V 21	2.2E-02	7.5E-05	4.4E-04	9.8E-04	1.6E-02	6.8E-03	4.6E-02	0.0E+00	4.7E-02	
SS V 22	4.5E-03	7.2E-05	4.3E-04	1.1E-03	1.5E-02	7.2E-03	2.8E-02	0.0E+00	2.9E-02	
SS V 23	6.6E-03	6.4E-05	3.8E-04	1.3E-03	2.2E-02	6.7E-03	3.7E-02	0.0E+00	3.8E-02	
SS V 24	1.2E-02	2.6E-03	3.9E-04	1.4E-03	2.9E-01	3.1E-02	3.4E-01	0.0E+00	3.4E-01	
SS V 25	2.9E-02	1.7E-03	5.0E-04	1.6E-03	1.6E-01	2.3E-02	2.1E-01	0.0E+00	2.1E-01	
SS V 26	8.7E-02	9.3E-05	5.4E-04	1.8E-03	7.9E-02	1.4E-02	1.8E-01	0.0E+00	1.8E-01	
SS V 27	6.3E-02	7.1E-05	4.2E-04	7.9E-04	2.5E-02	5.6E-03	9.5E-02	0.0E+00	9.6E-02	
SS V 28	2.7E-02	2.6E-03	4.3E-04	1.5E-03	3.3E-01	3.8E-02	4.0E-01	0.0E+00	4.0E-01	
SS V 29	7.6E-02	7.2E-05	4.2E-04	1.3E-03	1.8E-02	9.3E-03	1.1E-01	0.0E+00	1.1E-01	
SS V 30	3.4E-02	7.5E-05	4.4E-04	7.9E-03	2.7E-02	7.8E-03	7.7E-02	0.0E+00	7.8E-02	
SS V 31	5.3E-02	7.5E-05	4.4E-04	3.7E-03	2.1E-02	8.2E-03	8.7E-02	0.0E+00	8.8E-02	
SS V 32	5.0E-02	7.5E-05	4.4E-04	1.1E-03	2.9E-02	6.9E-03	8.8E-02	0.0E+00	8.9E-02	
SS V 33	1.3E-02	7.4E-05	4.4E-04	1.5E-03	2.1E-02	6.7E-03	4.3E-02	0.0E+00	4.4E-02	
SS W 01	2.4E-01	1.8E-02	1.3E-02	1.2E-01	6.2E-01	1.0E-01	5.8E-01	5.3E-01	1.1E+00	
SS W 02	2.3E-01	1.6E-02	1.3E-02	1.2E-01	5.3E-01	9.0E-02	4.7E-01	5.2E-01	1.0E+00	
SS W 03	2.2E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.6E-02	4.1E-02	5.2E-01	5.6E-01	
SS W 04	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	2.6E-02	5.2E-02	5.2E-01	5.7E-01	
SS W 05	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	3.0E-02	5.9E-02	5.2E-01	5.8E-01	
SS W 06	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	2.8E-02	5.7E-02	5.2E-01	5.8E-01	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(13)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater			
	Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021				Total Risk
SS W 07	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	3.1E-02	6.8E-02	5.2E-01	5.9E-01	
SS W 08	2.3E-01	8.5E-03	1.3E-02	1.2E-01	1.8E-01	3.0E-02	6.0E-02	5.2E-01	5.8E-01	
SS W 09	2.4E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.4E-02	5.4E-02	5.2E-01	5.8E-01	
SS W 10	2.1E-01	8.5E-03	1.3E-02	1.2E-01	1.7E-01	2.4E-02	2.1E-02	5.2E-01	5.4E-01	
SS W 11	2.6E-03	6.1E-05	3.6E-04	1.7E-03	1.2E-02	4.4E-03	2.1E-02	0.0E+00	2.2E-02	
SS W 12	7.6E-03	5.9E-05	3.5E-04	1.2E-03	1.3E-02	3.6E-03	2.6E-02	0.0E+00	2.7E-02	
SS W 13	9.7E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	5.0E-03	3.7E-02	0.0E+00	3.8E-02	
SS W 14	4.1E-03	7.5E-05	4.4E-04	1.3E-03	1.6E-02	5.2E-03	2.7E-02	0.0E+00	2.8E-02	
SS W 15	6.8E-03	7.5E-05	4.4E-04	1.3E-03	1.0E-02	5.0E-03	2.4E-02	0.0E+00	2.5E-02	
SS W 16	1.3E-03	7.5E-05	4.4E-04	1.2E-03	9.2E-03	5.1E-03	1.7E-02	0.0E+00	1.8E-02	
SS W 17	2.5E-03	7.5E-05	4.4E-04	1.6E-03	1.8E-02	4.9E-03	2.7E-02	0.0E+00	2.8E-02	
SS W 18	5.5E-03	7.5E-05	4.4E-04	1.0E-03	1.5E-02	4.8E-03	2.7E-02	0.0E+00	2.8E-02	
SS W 19	1.7E-02	7.5E-05	4.4E-04	2.1E-03	1.5E-02	5.7E-03	4.0E-02	0.0E+00	4.1E-02	
SS W 20	1.8E-02	7.5E-05	4.4E-04	1.3E-03	1.2E-02	6.2E-03	3.8E-02	0.0E+00	3.9E-02	
SS W 21	5.5E-03	7.5E-05	4.4E-04	1.6E-03	1.6E-02	6.0E-03	3.0E-02	0.0E+00	3.1E-02	
SS W 22	5.7E-03	7.5E-05	4.4E-04	1.9E-03	1.8E-02	8.3E-03	3.5E-02	0.0E+00	3.6E-02	
SS W 23	1.3E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	9.5E-03	4.1E-02	0.0E+00	4.2E-02	
SS W 24	1.4E-02	6.6E-05	3.9E-04	1.2E-03	1.5E-02	6.9E-03	3.7E-02	0.0E+00	3.8E-02	
SS W 25	5.1E-02	7.2E-05	4.2E-04	2.2E-03	4.0E-02	1.3E-02	1.1E-01	0.0E+00	1.1E-01	
SS W 26	1.3E-02	7.3E-05	4.3E-04	3.1E-03	5.3E-02	1.5E-02	8.4E-02	0.0E+00	8.5E-02	
SS W 27	6.9E-02	7.3E-05	4.3E-04	4.0E-03	1.3E-01	3.1E-02	2.3E-01	0.0E+00	2.3E-01	
SS W 28	2.9E-01	7.1E-05	4.2E-04	4.0E-03	2.1E-02	6.3E-03	3.2E-01	0.0E+00	3.3E-01	
SS W 29	1.4E-01	7.5E-05	4.4E-04	3.5E-02	3.8E-02	1.1E-02	2.2E-01	0.0E+00	2.3E-01	
SS W 30	1.9E-01	7.5E-05	4.4E-04	1.3E-02	2.8E-02	1.1E-02	2.4E-01	0.0E+00	2.4E-01	
SS W 31	4.1E-02	7.5E-05	4.4E-04	1.0E-02	2.3E-02	8.2E-03	8.2E-02	0.0E+00	8.3E-02	
SS W 32	3.4E-02	6.9E-05	4.0E-04	1.2E-03	2.8E-02	1.1E-02	7.5E-02	0.0E+00	7.6E-02	
SS W 33	5.0E-02	7.4E-05	4.4E-04	1.6E-03	3.1E-02	1.1E-02	9.5E-02	0.0E+00	9.6E-02	
SS X 24	1.1E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	7.1E-03	3.7E-02	0.0E+00	3.8E-02	
SS X 25	7.3E-02	7.5E-05	4.4E-04	3.0E-03	2.1E-02	8.2E-03	1.1E-01	0.0E+00	1.1E-01	
SS X 26	2.9E-02	7.5E-05	4.4E-04	5.7E-04	1.1E-02	5.0E-03	4.6E-02	0.0E+00	4.7E-02	
SS X 27	1.0E-02	7.0E-05	4.1E-04	3.4E-03	5.2E-02	1.5E-02	8.1E-02	0.0E+00	8.2E-02	
SS X 28	7.0E-02	1.4E-03	4.2E-04	1.7E-02	2.5E-02	6.0E-03	1.2E-01	0.0E+00	1.2E-01	
SS X 29	8.8E-02	6.8E-05	4.0E-04	7.1E-03	2.1E-02	5.3E-03	1.2E-01	0.0E+00	1.2E-01	
SS X 30	6.7E-02	7.2E-05	4.2E-04	4.1E-03	2.4E-02	5.7E-03	1.0E-01	0.0E+00	1.0E-01	
SS X 31	4.4E-02	7.3E-05	4.3E-04	1.2E-03	2.2E-02	5.6E-03	7.3E-02	0.0E+00	7.4E-02	
SS X 32	5.8E-03	7.1E-05	4.2E-04	2.2E-03	1.9E-02	5.4E-03	3.3E-02	0.0E+00	3.4E-02	
SS X 33	3.1E-02	7.3E-05	4.3E-04	7.2E-04	2.2E-02	4.9E-03	5.9E-02	0.0E+00	6.0E-02	
SS Y 24	8.1E-02	7.5E-05	4.4E-04	1.5E-03	2.0E-02	1.3E-02	1.1E-01	0.0E+00	1.2E-01	
SS Y 25	1.7E-01	7.5E-05	4.4E-04	1.2E-03	1.9E-02	9.2E-03	2.0E-01	0.0E+00	2.0E-01	
SS Y 26	7.5E-02	7.5E-05	4.4E-04	1.6E-03	2.7E-02	6.5E-03	1.1E-01	0.0E+00	1.1E-01	
SS Y 27	4.4E-02	7.4E-05	4.3E-04	1.2E-03	2.2E-02	6.9E-03	7.5E-02	0.0E+00	7.6E-02	
SS Y 28	3.4E-02	7.1E-05	4.2E-04	2.3E-03	5.8E-02	1.3E-02	1.1E-01	0.0E+00	1.1E-01	
SS Y 29	3.6E-02	8.6E-05	5.0E-04	3.1E-03	6.2E-02	2.1E-02	1.2E-01	0.0E+00	1.2E-01	
SS Y 30	3.5E-02	7.3E-05	4.3E-04	1.8E-03	3.9E-02	1.2E-02	8.7E-02	0.0E+00	8.8E-02	
SS Y 31	3.9E-02	2.8E-03	7.0E-04	2.4E-03	8.4E-02	4.9E-02	1.8E-01	0.0E+00	1.8E-01	
SS Y 32	1.6E-02	2.9E-03	4.9E-04	2.8E-03	1.1E-01	4.9E-02	1.8E-01	0.0E+00	1.8E-01	
SS Y 33	1.1E-02	2.6E-03	4.4E-04	1.6E-03	6.0E-02	4.1E-02	1.2E-01	0.0E+00	1.2E-01	
SS Z 24	1.0E-01	7.5E-05	4.4E-04	1.9E-03	4.0E-02	2.2E-02	1.7E-01	0.0E+00	1.7E-01	
SS Z 25	2.7E-01	7.5E-05	4.4E-04	7.8E-04	1.2E-01	1.1E-02	4.1E-01	0.0E+00	4.1E-01	
SS Z 26	1.1E-01	7.5E-05	2.1E-03	1.7E-03	8.9E-02	2.3E-02	2.3E-01	0.0E+00	2.3E-01	
SS Z 27	4.8E-02	7.5E-05	4.4E-04	1.5E-03	2.9E-02	8.1E-03	8.8E-02	0.0E+00	8.9E-02	

Data 6-7 Total Exposure Risk of Heavy Metals in Soil and (drinking) Groundwater

(14)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Groundwater)						Risk by heavy metals of Soil and Groundwater		
	As	Cd	Hg	Ni	Pb	Zn	Risk by Soil characterised by Land-use	Risk by Groundwater	Soil + Groundwater r
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021			Total Risk
SS Z 28	2.5E-02	1.1E-02	4.1E-04	1.2E-03	6.5E-02	3.0E-02	1.3E-01	0.0E+00	1.3E-01
SS Z 29	3.7E-02	1.9E-03	4.3E-04	2.4E-03	4.9E-02	1.4E-02	1.0E-01	0.0E+00	1.0E-01
SS Z 30	6.6E-03	2.6E-03	5.0E-04	1.1E-03	9.2E-02	5.4E-02	1.6E-01	0.0E+00	1.6E-01
SS Z 31	5.3E-04	3.4E-03	6.3E-04	1.4E-03	6.8E-02	2.9E-02	1.0E-01	0.0E+00	1.0E-01
SS Z 32	1.1E-02	3.4E-03	6.4E-04	3.1E-03	1.2E-01	6.9E-02	2.1E-01	0.0E+00	2.1E-01
SS Z 33	7.2E-03	2.0E-03	4.4E-04	1.1E-03	5.2E-02	4.6E-02	1.1E-01	0.0E+00	1.1E-01
SS a 24	1.1E-01	7.5E-05	4.4E-04	1.6E-03	7.0E-02	1.6E-02	1.9E-01	0.0E+00	1.9E-01
SS a 25	1.1E-01	7.5E-05	4.4E-04	8.5E-04	5.7E-01	7.4E-03	6.9E-01	0.0E+00	6.9E-01
SS a 26	2.1E-02	2.0E-03	4.4E-04	2.5E-03	1.1E-01	3.4E-02	1.7E-01	0.0E+00	1.7E-01
SS a 27	4.5E-02	7.5E-05	4.4E-04	1.1E-03	1.8E-02	7.0E-03	7.1E-02	0.0E+00	7.2E-02
SS a 28	3.2E-02	1.7E-02	4.4E-04	1.1E-03	1.4E-01	7.0E-02	2.6E-01	0.0E+00	2.6E-01
SS a 29	1.1E-02	2.8E-03	4.1E-04	2.6E-03	7.8E-02	2.1E-02	1.2E-01	0.0E+00	1.2E-01
SS a 30	1.3E-02	6.0E-03	4.2E-04	5.1E-04	1.8E-01	5.4E-02	2.6E-01	0.0E+00	2.6E-01
SS a 31	2.8E-03	3.8E-03	4.8E-04	1.3E-03	9.2E-02	5.3E-02	1.5E-01	0.0E+00	1.5E-01
SS a 32	2.0E-03	9.4E-05	5.5E-04	3.7E-03	7.6E-02	2.0E-02	1.0E-01	0.0E+00	1.0E-01
SS a 33	5.3E-03	8.4E-05	4.9E-04	1.8E-03	4.0E-02	3.9E-02	8.6E-02	0.0E+00	8.7E-02
Maximum	18.814	18.814	18.814	18.814	18.814	18.814	1.9E+01	7.6E-01	18.81
Minimum	0.011	0.011	0.011	0.011	0.011	0.011	1.1E-02	0.0E+00	0.018
Average	0.175	0.175	0.175	0.175	0.175	0.175	1.8E-01	2.1E-01	0.388

**Data 6-8 Exposure Risk of Heavy Metals in Soil,
Case -1: Implementation of Alternative-1
in All of Priority No.1 ~ No.5 Area**

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(1)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS A 13	1.3E-02	7.5E-05	4.4E-04	2.5E-03	2.2E-02	6.1E-03	4.5E-02
SS A 14	1.1E-02	1.3E-03	3.8E-04	2.4E-03	1.7E-02	5.5E-03	3.8E-02
SS A 15	9.8E-03	1.4E-03	4.1E-04	3.5E-03	1.9E-02	5.3E-03	3.9E-02
SS A 16	9.0E-03	1.5E-03	4.4E-04	2.1E-03	2.7E-02	5.6E-03	4.6E-02
SS A 17	7.1E-03	6.5E-05	3.8E-04	2.3E-03	1.9E-02	5.8E-03	3.5E-02
SS A 18	1.2E-02	1.5E-03	4.4E-04	1.1E-02	2.0E-02	7.7E-03	5.2E-02
SS A 19	7.1E-03	1.4E-03	4.2E-04	9.8E-03	1.6E-02	4.7E-03	4.0E-02
SS A 20	7.8E-03	5.2E-05	3.1E-04	5.6E-03	1.0E-02	3.0E-03	2.7E-02
SS A 21	6.8E-03	5.7E-05	3.4E-04	3.5E-03	1.6E-02	3.5E-03	3.1E-02
SS A 22	1.0E-02	6.3E-05	3.7E-04	3.2E-03	1.6E-02	5.7E-03	3.5E-02
SS A 23	4.4E-03	5.5E-05	3.3E-04	4.5E-03	1.2E-02	3.8E-03	2.5E-02
SS A 24	4.1E-03	5.1E-05	3.0E-04	5.0E-03	2.0E-02	5.7E-03	3.5E-02
SS A 25	6.5E-03	1.3E-03	3.8E-04	6.5E-03	2.3E-02	6.3E-03	4.4E-02
SS B 12	2.6E-02	7.5E-05	4.4E-04	2.3E-03	2.4E-02	6.0E-03	5.9E-02
SS B 13	2.9E-02	7.5E-05	4.4E-04	1.4E-03	2.5E-02	7.1E-03	6.3E-02
SS B 14	1.3E-02	6.3E-05	3.7E-04	1.7E-03	1.8E-02	5.4E-03	3.8E-02
SS B 15	6.9E-03	6.3E-05	3.7E-04	3.4E-03	1.8E-02	6.8E-03	3.6E-02
SS B 16	7.5E-03	7.5E-05	4.4E-04	5.0E-03	1.6E-02	5.1E-03	3.4E-02
SS B 17	3.3E-03	6.7E-05	3.9E-04	5.8E-03	2.2E-02	5.3E-03	3.7E-02
SS B 18	8.3E-03	6.9E-05	4.1E-04	1.5E-02	1.7E-02	5.5E-03	4.6E-02
SS B 19	1.1E-02	7.5E-05	4.4E-04	1.2E-02	2.1E-02	6.0E-03	5.0E-02
SS B 20	5.6E-03	5.6E-05	3.3E-04	7.8E-03	1.3E-02	5.0E-03	3.2E-02
SS B 21	6.8E-03	5.7E-05	3.3E-04	4.0E-03	1.6E-02	3.7E-03	3.1E-02
SS B 22	8.3E-03	5.5E-05	3.2E-04	8.0E-03	1.2E-02	4.4E-03	3.3E-02
SS B 23	9.0E-03	7.5E-05	4.4E-04	7.4E-03	2.1E-02	5.4E-03	4.3E-02
SS B 24	6.8E-03	7.5E-05	4.4E-04	4.9E-03	1.6E-02	5.5E-03	3.4E-02
SS B 25	6.1E-03	5.5E-05	3.3E-04	3.7E-03	1.4E-02	3.6E-03	2.7E-02
SS C 11	7.5E-03	1.5E-03	4.4E-04	2.4E-03	2.7E-02	5.1E-03	4.3E-02
SS C 12	1.5E-02	7.5E-05	4.4E-04	2.2E-03	2.2E-02	6.0E-03	4.6E-02
SS C 13	9.8E-03	1.4E-03	4.1E-04	2.8E-03	2.0E-02	5.6E-03	3.9E-02
SS C 14	4.7E-03	5.9E-05	3.5E-04	3.2E-03	1.7E-02	7.8E-03	3.3E-02
SS C 15	1.1E-02	5.9E-05	3.5E-04	6.3E-03	1.7E-02	6.5E-03	4.2E-02
SS C 16	7.4E-03	6.2E-05	3.6E-04	2.5E-03	1.8E-02	6.2E-03	3.4E-02
SS C 17	8.6E-03	6.6E-05	3.9E-04	7.4E-03	1.9E-02	5.7E-03	4.1E-02
SS C 18	1.1E-02	7.2E-05	4.2E-04	8.3E-03	2.4E-02	6.2E-03	5.0E-02
SS C 19	8.9E-03	7.4E-05	4.3E-04	1.5E-02	2.2E-02	5.5E-03	5.2E-02
SS C 20	4.9E-03	6.1E-05	3.6E-04	7.9E-03	2.1E-02	6.2E-03	4.1E-02
SS C 21	1.7E-02	6.4E-05	3.7E-04	5.8E-03	1.6E-02	5.6E-03	4.5E-02
SS C 22	9.8E-03	1.0E-03	3.0E-04	3.1E-03	1.4E-02	4.0E-03	3.2E-02
SS C 23	2.3E-03	5.8E-05	3.4E-04	1.4E-03	5.3E-03	1.6E-03	1.1E-02
SS C 24	2.6E-03	6.5E-05	3.8E-04	3.1E-03	1.4E-02	5.0E-03	2.5E-02
SS C 25	6.6E-03	7.3E-05	4.3E-04	1.8E-03	1.7E-02	6.0E-03	3.2E-02
SS D 10	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.4E-02	6.3E-03	4.4E-02
SS D 11	2.4E-02	7.5E-05	4.4E-04	1.6E-03	2.2E-02	4.7E-03	5.3E-02
SS D 12	8.4E-03	6.5E-05	3.8E-04	2.9E-03	1.7E-02	4.8E-03	3.3E-02
SS D 13	7.8E-03	5.2E-05	3.1E-04	2.9E-03	1.4E-02	3.8E-03	2.9E-02
SS D 14	7.3E-03	6.6E-05	3.9E-04	7.7E-03	2.0E-02	5.8E-03	4.1E-02
SS D 15	6.0E-03	6.0E-05	3.5E-04	2.4E-03	2.0E-02	5.2E-03	3.4E-02
SS D 16	1.4E-02	7.5E-05	4.4E-04	4.5E-03	2.2E-02	5.9E-03	4.6E-02
SS D 17	4.6E-03	5.8E-05	3.4E-04	8.1E-03	1.5E-02	6.1E-03	3.5E-02
SS D 18	8.3E-03	6.4E-05	3.7E-04	8.8E-03	1.6E-02	4.7E-03	3.8E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(2)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS D 19	7.2E-03	6.5E-05	3.9E-04	8.2E-03	2.2E-02	6.2E-03	4.4E-02
SS D 20	6.3E-03	7.0E-05	4.1E-04	4.4E-03	1.4E-02	5.1E-03	3.1E-02
SS D 21	7.6E-03	6.9E-05	4.0E-04	4.6E-03	1.3E-02	4.5E-03	3.0E-02
SS D 22	9.6E-03	7.4E-05	4.3E-04	1.6E-03	1.6E-02	6.0E-03	3.4E-02
SS D 23	2.3E-02	7.5E-05	4.4E-04	2.3E-03	2.3E-02	4.7E-03	5.3E-02
SS D 24	4.1E-02	7.5E-05	4.4E-04	2.6E-03	3.0E-02	4.9E-03	7.9E-02
SS D 25	3.2E-02	7.5E-05	4.4E-04	1.8E-03	2.5E-02	5.6E-03	6.4E-02
SS E 9	6.7E-03	7.4E-05	4.4E-04	4.2E-03	1.7E-02	6.2E-03	3.5E-02
SS E 10	2.6E-02	7.5E-05	4.4E-04	1.0E-03	3.5E-02	3.1E-03	6.5E-02
SS E 11	6.7E-03	6.7E-05	3.9E-04	4.2E-03	3.0E-02	6.2E-03	4.8E-02
SS E 12	1.1E-02	5.6E-05	3.3E-04	8.9E-03	1.4E-02	4.1E-03	3.8E-02
SS E 13	2.9E-02	5.7E-05	3.3E-04	1.5E-03	2.4E-02	4.4E-03	6.0E-02
SS E 14	1.0E-02	5.5E-05	3.2E-04	1.1E-02	1.5E-02	4.6E-03	4.1E-02
SS E 15	4.3E-03	5.4E-05	3.2E-04	8.7E-03	1.2E-02	4.7E-03	3.0E-02
SS E 16	4.0E-03	5.0E-05	2.9E-04	6.3E-03	6.6E-03	3.0E-03	2.0E-02
SS E 17	5.1E-03	5.6E-05	3.3E-04	6.8E-03	1.0E-02	3.1E-03	2.6E-02
SS E 18	1.0E-02	8.0E-05	4.7E-04	1.3E-02	2.5E-02	6.6E-03	5.5E-02
SS E 19	1.8E-02	8.1E-05	4.8E-04	9.8E-03	2.0E-02	8.3E-03	5.7E-02
SS E 20	8.7E-03	7.2E-05	4.2E-04	3.6E-03	1.9E-02	6.8E-03	3.8E-02
SS E 21	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.0E-02	5.6E-03	3.8E-02
SS E 22	1.7E-02	7.5E-05	4.4E-04	2.3E-03	2.6E-02	6.1E-03	5.2E-02
SS E 23	3.5E-02	7.5E-05	4.4E-04	2.1E-03	3.3E-02	6.5E-03	7.6E-02
SS E 24	9.9E-02	7.5E-05	4.4E-04	1.5E-03	3.4E-02	5.6E-03	1.4E-01
SS E 25	1.8E-02	7.5E-05	4.4E-04	1.9E-03	2.0E-02	7.8E-03	4.8E-02
SS F 9	1.9E-02	7.5E-05	4.4E-04	5.1E-03	2.2E-02	5.1E-03	5.2E-02
SS F 10	9.5E-03	7.3E-05	4.3E-04	5.5E-03	1.5E-02	5.1E-03	3.5E-02
SS F 11	6.5E-03	5.9E-05	3.5E-04	1.1E-02	1.2E-02	4.6E-03	3.5E-02
SS F 12	8.8E-03	6.3E-05	3.7E-04	1.3E-02	1.7E-02	5.2E-03	4.4E-02
SS F 13	9.1E-03	7.0E-05	4.1E-04	1.2E-02	1.8E-02	5.1E-03	4.5E-02
SS F 14	4.0E-03	5.0E-05	2.9E-04	7.1E-03	8.3E-03	3.2E-03	2.3E-02
SS F 15	6.2E-03	5.1E-05	3.0E-04	8.4E-03	1.1E-02	3.8E-03	3.0E-02
SS F 16	4.9E-03	5.5E-05	3.2E-04	7.9E-03	8.8E-03	3.3E-03	2.5E-02
SS F 17	5.8E-03	6.5E-05	3.8E-04	1.1E-02	2.3E-02	4.9E-03	4.6E-02
SS F 18	1.1E-02	6.7E-05	3.9E-04	1.4E-02	1.7E-02	5.5E-03	4.8E-02
SS F 19	1.0E-02	6.7E-05	3.9E-04	1.9E-03	1.9E-02	5.3E-03	3.7E-02
SS F 20	1.3E-02	7.5E-05	4.4E-04	1.6E-03	2.4E-02	8.5E-03	4.7E-02
SS F 21	3.6E-02	7.5E-05	4.4E-04	2.3E-03	2.5E-02	6.3E-03	7.0E-02
SS F 22	1.6E-01	7.5E-05	4.4E-04	2.4E-03	4.8E-02	4.9E-03	2.2E-01
SS F 23	1.5E-02	7.5E-05	4.4E-04	2.0E-03	2.3E-02	9.6E-03	5.0E-02
SS F 24	9.8E-03	7.5E-05	4.4E-04	2.9E-03	1.8E-02	6.0E-03	3.7E-02
SS F 25	1.4E-02	7.5E-05	4.4E-04	3.4E-03	2.0E-02	5.6E-03	4.3E-02
SS G 9	1.7E-02	7.5E-05	4.4E-04	2.4E-03	2.9E-02	6.0E-03	5.5E-02
SS G 10	1.0E-02	7.4E-05	4.4E-04	9.3E-03	1.6E-02	5.3E-03	4.2E-02
SS G 11	1.1E-02	6.2E-05	3.6E-04	1.4E-02	1.5E-02	5.0E-03	4.5E-02
SS G 12	6.8E-03	6.8E-05	4.0E-04	1.2E-02	1.7E-02	4.8E-03	4.1E-02
SS G 13	6.7E-03	6.7E-05	4.0E-04	1.3E-02	1.1E-02	7.2E-03	3.8E-02
SS G 14	6.6E-03	5.5E-05	3.2E-04	6.4E-03	1.3E-02	4.1E-03	3.0E-02
SS G 15	5.5E-03	5.5E-05	3.2E-04	9.6E-03	1.4E-02	3.9E-03	3.3E-02
SS G 16	7.2E-03	6.5E-05	3.8E-04	1.0E-02	1.4E-02	4.2E-03	3.6E-02
SS G 17	8.0E-03	7.2E-05	4.3E-04	9.9E-03	1.5E-02	4.7E-03	3.8E-02
SS G 18	2.7E-02	8.7E-05	5.1E-04	3.9E-03	2.2E-02	7.5E-03	6.1E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(3)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS G 19	3.8E-02	7.4E-05	4.3E-04	2.0E-03	2.9E-02	7.3E-03	7.7E-02
SS G 20	4.9E-02	7.5E-05	4.4E-04	1.6E-03	3.5E-02	6.0E-03	9.2E-02
SS G 21	6.9E-02	7.5E-05	4.4E-04	2.3E-03	3.1E-02	7.0E-03	1.1E-01
SS G 22	1.2E-02	7.5E-05	4.4E-04	1.8E-03	2.0E-02	6.5E-03	4.1E-02
SS G 23	3.0E-03	7.5E-05	4.4E-04	1.3E-03	1.8E-02	8.0E-03	3.0E-02
SS G 24	6.8E-03	7.5E-05	4.4E-04	1.5E-03	2.2E-02	6.6E-03	3.8E-02
SS G 25	8.3E-03	7.5E-05	4.4E-04	1.5E-03	1.9E-02	7.4E-03	3.7E-02
SS G 26	1.3E-02	7.5E-05	4.4E-04	3.1E-03	2.1E-02	5.9E-03	4.3E-02
SS G 27	2.2E-02	7.5E-05	4.4E-04	2.5E-03	1.9E-02	5.9E-03	5.0E-02
SS G 28	1.6E-02	1.1E-03	3.1E-04	4.4E-03	1.5E-02	3.8E-03	4.2E-02
SS G 29	1.6E-02	1.0E-03	2.9E-04	4.7E-03	1.5E-02	3.5E-03	4.0E-02
SS G 30	1.2E-02	1.0E-03	2.9E-04	5.2E-03	1.5E-02	4.1E-03	3.7E-02
SS G 31	1.9E-02	1.2E-03	3.5E-04	3.3E-03	2.0E-02	3.9E-03	4.8E-02
SS G 32	2.5E-02	6.5E-05	3.8E-04	1.7E-03	3.4E-02	5.5E-03	6.6E-02
SS G 33	2.4E-02	1.5E-03	4.4E-04	1.9E-03	2.9E-02	5.6E-03	6.2E-02
SS G 34	2.0E-02	7.5E-05	4.4E-04	2.1E-03	4.6E-02	4.5E-03	7.3E-02
SS G 35	1.5E-02	7.5E-05	4.4E-04	2.4E-03	4.6E-02	3.4E-03	6.8E-02
SS G 36	2.4E-02	7.5E-05	4.4E-04	2.5E-03	4.1E-02	4.8E-03	7.3E-02
SS H 9	6.8E-03	7.5E-05	4.4E-04	2.8E-03	2.3E-02	5.4E-03	3.9E-02
SS H 10	1.2E-02	6.6E-05	3.9E-04	1.1E-02	1.7E-02	5.2E-03	4.5E-02
SS H 11	4.7E-03	5.8E-05	3.4E-04	1.3E-02	1.3E-02	4.0E-03	3.5E-02
SS H 12	5.4E-03	6.0E-05	3.5E-04	1.2E-02	1.2E-02	4.3E-03	3.4E-02
SS H 13	6.1E-03	5.5E-05	3.3E-04	1.1E-02	1.2E-02	4.5E-03	3.4E-02
SS H 14	6.1E-03	5.5E-05	3.3E-04	7.7E-03	1.0E-02	3.7E-03	2.8E-02
SS H 15	9.6E-03	5.6E-05	3.3E-04	1.3E-02	1.5E-02	4.5E-03	4.3E-02
SS H 16	8.3E-03	6.9E-05	4.1E-04	3.4E-03	1.7E-02	5.6E-03	3.5E-02
SS H 17	9.2E-03	6.6E-05	3.9E-04	2.2E-03	1.9E-02	5.9E-03	3.6E-02
SS H 18	8.9E-03	8.1E-05	4.7E-04	1.9E-03	2.4E-02	7.0E-03	4.2E-02
SS H 19	7.5E-03	7.5E-05	4.4E-04	1.8E-03	2.2E-02	1.0E-02	4.2E-02
SS H 20	3.8E-02	7.5E-05	4.4E-04	1.9E-03	2.9E-02	5.9E-03	7.6E-02
SS H 21	1.4E-02	7.5E-05	4.4E-04	1.9E-03	2.4E-02	8.2E-03	4.9E-02
SS H 22	1.3E-02	7.5E-05	4.4E-04	3.4E-03	2.2E-02	8.4E-03	4.7E-02
SS H 23	1.1E-02	7.5E-05	4.4E-04	1.7E-02	1.7E-02	5.9E-03	5.1E-02
SS H 24	6.2E-03	7.8E-05	4.6E-04	9.1E-04	2.7E-02	7.1E-03	4.2E-02
SS H 25	6.1E-03	1.0E-04	6.0E-04	1.7E-03	3.3E-02	1.4E-02	5.6E-02
SS H 26	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.2E-02	6.1E-03	4.2E-02
SS H 27	8.5E-03	7.1E-05	4.2E-04	2.5E-03	2.1E-02	5.1E-03	3.7E-02
SS H 28	1.6E-02	1.0E-03	2.9E-04	4.1E-03	1.5E-02	3.0E-03	3.9E-02
SS H 29	1.8E-02	5.0E-05	2.9E-04	3.3E-03	1.5E-02	2.9E-03	3.9E-02
SS H 30	1.6E-02	1.1E-03	3.1E-04	3.3E-03	1.5E-02	3.8E-03	4.0E-02
SS H 31	2.7E-02	1.4E-03	4.0E-04	1.8E-03	2.8E-02	5.4E-03	6.4E-02
SS H 32	1.9E-02	7.5E-05	4.4E-04	1.5E-03	2.7E-02	1.1E-02	6.0E-02
SS H 33	1.2E-02	1.5E-03	4.4E-04	1.9E-03	2.5E-02	6.9E-03	4.8E-02
SS H 34	3.7E-02	7.3E-05	4.3E-04	2.0E-03	3.6E-02	6.2E-03	8.2E-02
SS H 35	2.0E-02	7.5E-05	4.4E-04	5.5E-03	2.6E-02	5.2E-03	5.6E-02
SS H 36	1.7E-02	7.3E-05	4.3E-04	1.3E-02	2.5E-02	5.8E-03	6.1E-02
SS I 8	2.1E-02	9.0E-05	5.3E-04	4.5E-03	3.6E-02	6.3E-03	6.8E-02
SS I 9	1.7E-02	6.9E-05	4.0E-04	7.2E-03	1.7E-02	5.0E-03	4.7E-02
SS I 10	6.9E-03	5.3E-05	3.1E-04	1.2E-02	1.3E-02	3.8E-03	3.6E-02
SS I 11	5.5E-03	5.5E-05	3.2E-04	1.0E-02	9.4E-03	4.1E-03	3.0E-02
SS I 12	7.2E-03	5.1E-05	3.0E-04	9.3E-03	1.2E-02	4.4E-03	3.3E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(4)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS I 13	6.4E-03	5.3E-05	3.1E-04	9.7E-03	1.0E-02	3.8E-03	3.0E-02
SS I 14	7.9E-03	6.6E-05	3.9E-04	6.3E-03	1.5E-02	5.1E-03	3.4E-02
SS I 15	5.8E-03	6.5E-05	3.8E-04	3.4E-03	2.1E-02	4.1E-03	3.5E-02
SS I 16	8.2E-03	1.5E-03	4.4E-04	2.6E-03	1.9E-02	6.4E-03	3.8E-02
SS I 17	6.8E-03	1.5E-03	4.4E-04	2.8E-03	2.3E-02	6.5E-03	4.1E-02
SS I 18	2.9E-03	7.3E-05	4.3E-04	2.1E-03	2.2E-02	6.9E-03	3.4E-02
SS I 19	8.5E-03	7.1E-05	4.2E-04	1.5E-03	1.9E-02	6.0E-03	3.5E-02
SS I 20	6.0E-03	7.5E-05	4.4E-04	2.6E-03	2.1E-02	1.1E-02	4.1E-02
SS I 21	4.5E-03	7.5E-05	4.4E-04	2.5E-03	2.4E-02	6.9E-03	3.8E-02
SS I 22	5.3E-03	7.5E-05	4.4E-04	1.0E-02	2.1E-02	6.4E-03	4.4E-02
SS I 23	4.5E-03	7.5E-05	4.4E-04	1.0E-03	2.1E-02	6.4E-03	3.3E-02
SS I 24	3.0E-03	7.4E-05	4.4E-04	7.4E-04	1.6E-02	5.2E-03	2.5E-02
SS I 25	6.1E-03	6.1E-05	3.6E-04	1.1E-03	1.6E-02	6.6E-03	3.0E-02
SS I 26	7.0E-03	6.4E-05	3.8E-04	1.8E-03	1.9E-02	5.9E-03	3.4E-02
SS I 27	1.7E-02	6.0E-05	3.5E-04	4.3E-03	1.7E-02	4.1E-03	4.3E-02
SS I 28	1.4E-02	5.3E-05	3.1E-04	4.8E-03	1.8E-02	3.8E-03	4.1E-02
SS I 29	1.2E-02	5.1E-05	3.0E-04	3.4E-03	2.3E-02	3.2E-03	4.3E-02
SS I 30	2.3E-02	6.9E-05	4.1E-04	2.9E-03	2.5E-02	5.9E-03	5.7E-02
SS I 31	1.3E-02	7.5E-05	4.4E-04	1.9E-03	5.2E-02	7.0E-03	7.4E-02
SS I 32	5.3E-03	1.5E-03	4.4E-04	2.0E-03	1.7E-02	2.3E-02	5.0E-02
SS I 33	1.8E-02	1.5E-03	4.4E-04	2.6E-03	3.3E-02	7.9E-03	6.3E-02
SS I 34	1.0E-02	7.5E-05	4.4E-04	2.4E-03	2.4E-02	5.2E-03	4.3E-02
SS I 35	8.1E-03	6.2E-05	3.7E-04	8.1E-03	2.0E-02	5.4E-03	4.2E-02
SS I 36	1.1E-02	6.3E-05	3.7E-04	1.1E-02	2.2E-02	4.6E-03	4.9E-02
SS J 7	4.4E-03	1.5E-03	4.4E-04	3.1E-03	2.5E-02	6.3E-03	4.0E-02
SS J 8	3.8E-03	6.3E-05	3.7E-04	4.1E-03	1.6E-02	5.0E-03	2.9E-02
SS J 9	7.7E-03	1.0E-03	3.0E-04	1.5E-02	1.2E-02	4.3E-03	4.0E-02
SS J 10	7.3E-03	1.3E-03	3.9E-04	1.2E-02	1.4E-02	4.7E-03	4.0E-02
SS J 11	8.1E-03	6.3E-05	3.7E-04	1.4E-02	1.4E-02	4.5E-03	4.2E-02
SS J 12	6.7E-03	5.1E-05	3.0E-04	1.0E-02	1.1E-02	3.8E-03	3.3E-02
SS J 13	9.3E-03	5.8E-05	3.4E-04	6.1E-03	1.3E-02	3.6E-03	3.2E-02
SS J 14	6.0E-03	7.5E-05	4.4E-04	2.0E-03	2.4E-02	4.9E-03	3.7E-02
SS J 15	5.3E-03	1.5E-03	4.4E-04	1.6E-03	2.1E-02	5.7E-03	3.5E-02
SS J 16	7.5E-03	7.5E-05	4.4E-04	2.0E-03	2.1E-02	5.2E-03	3.7E-02
SS J 17	3.0E-03	1.5E-03	4.4E-04	2.0E-03	1.8E-02	6.1E-03	3.1E-02
SS J 18	1.1E-03	7.4E-05	4.4E-04	1.4E-03	1.6E-02	4.7E-03	2.4E-02
SS J 19	8.9E-03	7.4E-05	4.4E-04	2.4E-03	2.2E-02	5.9E-03	4.0E-02
SS J 20	3.3E-03	6.6E-05	3.9E-04	1.5E-03	2.0E-02	5.6E-03	3.1E-02
SS J 21	7.4E-03	1.5E-03	4.3E-04	1.8E-03	2.1E-02	6.0E-03	3.9E-02
SS J 22	4.5E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.3E-03	2.9E-02
SS J 23	3.4E-03	6.9E-05	4.0E-04	1.3E-03	1.4E-02	4.3E-03	2.4E-02
SS J 24	4.1E-03	5.9E-05	3.5E-04	1.2E-03	1.4E-02	4.2E-03	2.4E-02
SS J 25	5.8E-03	1.1E-03	3.1E-04	1.3E-03	1.8E-02	4.1E-03	3.0E-02
SS J 26	9.8E-03	1.1E-03	3.2E-04	3.5E-03	1.6E-02	4.0E-03	3.5E-02
SS J 27	1.6E-02	5.0E-05	2.9E-04	3.0E-03	1.5E-02	2.7E-03	3.7E-02
SS J 28	8.0E-03	1.1E-03	3.1E-04	3.5E-03	2.2E-02	4.5E-03	3.9E-02
SS J 29	1.5E-02	1.6E-03	4.7E-04	2.9E-03	2.8E-02	7.2E-03	5.6E-02
SS J 30	1.1E-02	8.0E-05	4.7E-04	1.2E-03	3.4E-02	7.5E-03	5.5E-02
SS J 31	7.7E-02	7.5E-05	4.4E-04	1.5E-03	4.5E-01	5.3E-03	5.3E-01
SS J 32	1.2E-02	1.5E-03	4.4E-04	2.4E-03	3.2E-02	6.7E-03	5.5E-02
SS J 33	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.6E-02	7.0E-03	4.6E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(5)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS J 34	1.4E-02	7.5E-05	4.4E-04	1.4E-02	2.5E-02	5.7E-03	6.0E-02
SS J 35	1.5E-02	7.5E-05	4.4E-04	1.0E-02	2.7E-02	5.8E-03	5.8E-02
SS J 36	1.3E-02	1.6E-03	4.8E-04	1.3E-02	2.8E-02	6.9E-03	6.3E-02
SS K 06	5.8E-03	7.5E-05	4.4E-04	1.9E-03	1.4E-02	5.0E-03	2.8E-02
SS K 07	4.2E-03	6.6E-05	3.9E-04	1.6E-03	1.6E-02	3.9E-03	2.6E-02
SS K 08	7.6E-03	5.9E-05	3.5E-04	1.1E-02	1.1E-02	7.2E-03	3.8E-02
SS K 09	1.1E-03	5.1E-05	3.0E-04	1.1E-02	1.0E-02	5.6E-03	2.9E-02
SS K 10	1.7E-03	6.1E-05	3.6E-04	1.4E-02	1.2E-02	5.0E-03	3.3E-02
SS K 11	3.1E-03	5.1E-05	3.0E-04	1.2E-02	8.9E-03	4.1E-03	2.9E-02
SS K 12	3.0E-03	5.2E-05	3.1E-04	6.8E-03	1.2E-02	6.2E-03	2.8E-02
SS K 13	9.4E-03	6.9E-05	4.1E-04	1.1E-03	1.3E-02	5.4E-03	3.0E-02
SS K 14	4.6E-03	7.5E-05	4.4E-04	1.2E-03	1.5E-02	6.1E-03	2.8E-02
SS K 15	1.7E-03	7.5E-05	4.4E-04	1.3E-03	1.3E-02	6.2E-03	2.3E-02
SS K 16	3.8E-04	7.5E-05	4.4E-04	6.5E-03	3.8E-02	9.0E-03	5.4E-02
SS K 17	4.0E-03	7.5E-05	4.4E-04	1.3E-03	1.8E-02	6.4E-03	3.0E-02
SS K 18	1.7E-02	7.5E-05	4.4E-04	1.4E-03	2.3E-02	9.2E-03	5.1E-02
SS K 19	1.7E-03	6.4E-05	3.8E-04	1.3E-03	1.3E-02	4.7E-03	2.1E-02
SS K 20	1.2E-03	5.1E-05	3.0E-04	7.8E-04	9.6E-03	3.6E-03	1.6E-02
SS K 21	2.8E-03	6.0E-05	3.6E-04	4.3E-04	9.4E-03	3.7E-03	1.7E-02
SS K 22	2.2E-03	9.5E-05	5.6E-04	1.5E-03	2.7E-02	5.4E-03	3.6E-02
SS K 23	1.8E-03	5.0E-05	2.9E-04	6.8E-04	1.4E-02	3.7E-03	2.1E-02
SS K 24	3.6E-03	5.0E-05	2.9E-04	1.2E-03	1.2E-02	3.6E-03	2.1E-02
SS K 25	4.3E-03	5.4E-05	3.2E-04	1.8E-03	1.4E-02	3.8E-03	2.4E-02
SS K 26	1.0E-02	5.6E-05	3.3E-04	3.0E-03	1.4E-02	3.7E-03	3.1E-02
SS K 27	7.9E-03	5.0E-05	2.9E-04	2.4E-03	1.4E-02	3.4E-03	2.8E-02
SS K 28	1.3E-02	5.7E-05	3.3E-04	1.3E-03	1.5E-02	4.2E-03	3.4E-02
SS K 29	2.1E-02	8.8E-05	5.2E-04	1.2E-03	2.6E-02	7.1E-03	5.6E-02
SS K 30	1.2E-01	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.2E-03	1.5E-01
SS K 31	8.3E-03	7.5E-05	4.4E-04	5.9E-03	3.0E-02	6.0E-03	5.1E-02
SS K 32	9.4E-03	7.5E-05	4.4E-04	2.0E-03	1.7E-02	7.2E-03	3.7E-02
SS K 33	9.0E-03	7.5E-05	4.4E-04	1.2E-02	2.0E-02	5.0E-03	4.7E-02
SS K 34	8.9E-03	7.5E-05	4.4E-04	1.1E-02	4.0E-02	6.4E-03	6.7E-02
SS K 35	7.8E-03	8.3E-05	4.9E-04	1.8E-02	2.1E-02	8.8E-03	5.6E-02
SS K 36	1.0E-02	4.2E-03	7.8E-04	6.2E-03	1.3E-01	3.0E-02	1.9E-01
SS L 05	4.7E-03	7.5E-05	4.4E-04	3.0E-03	1.7E-02	5.3E-03	3.1E-02
SS L 06	3.6E-04	7.1E-05	4.2E-04	3.0E-03	1.6E-02	4.7E-03	2.5E-02
SS L 07	3.8E-03	5.0E-05	2.9E-04	2.6E-03	1.8E-02	4.3E-03	2.9E-02
SS L 08	3.2E-03	5.5E-05	3.2E-04	1.2E-02	1.1E-02	3.9E-03	3.0E-02
SS L 09	5.7E-03	5.0E-05	2.9E-04	1.1E-02	6.5E-03	4.0E-03	2.7E-02
SS L 10	2.5E-04	5.1E-05	3.0E-04	1.1E-02	9.4E-03	4.0E-03	2.5E-02
SS L 11	5.4E-03	5.3E-05	3.1E-04	5.9E-03	9.2E-03	3.8E-03	2.5E-02
SS L 12	3.9E-03	7.4E-05	4.4E-04	3.2E-03	1.8E-02	6.3E-03	3.2E-02
SS L 13	3.0E-03	7.5E-05	4.4E-04	1.7E-03	1.5E-02	5.6E-03	2.6E-02
SS L 14	1.2E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.4E-03	2.6E-02
SS L 15	9.0E-03	7.5E-05	4.4E-04	1.3E-03	1.7E-02	6.3E-03	3.4E-02
SS L 16	1.6E-03	7.5E-05	4.4E-04	9.0E-04	1.3E-02	4.7E-03	2.0E-02
SS L 17	5.7E-03	1.7E-03	4.0E-04	1.0E-03	1.6E-02	4.6E-03	3.0E-02
SS L 18	1.9E-03	5.0E-05	2.9E-04	1.0E-03	1.3E-02	3.7E-03	2.0E-02
SS L 19	2.5E-03	5.0E-05	2.9E-04	5.7E-04	1.1E-02	3.4E-03	1.8E-02
SS L 20	1.0E-03	5.1E-05	3.0E-04	7.4E-04	1.5E-02	4.4E-03	2.1E-02
SS L 21	2.9E-03	5.2E-05	3.1E-04	1.4E-03	5.2E-02	3.2E-03	5.9E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(6)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS L 22	4.0E-03	5.4E-05	3.2E-04	1.4E-03	1.4E-02	4.2E-03	2.4E-02
SS L 23	8.2E-03	7.5E-05	4.4E-04	1.2E-03	2.1E-02	5.0E-03	3.6E-02
SS L 24	3.7E-03	5.0E-05	3.0E-04	1.8E-03	1.4E-02	3.3E-03	2.3E-02
SS L 25	5.0E-03	5.4E-05	3.2E-04	2.3E-03	1.6E-02	3.6E-03	2.7E-02
SS L 26	1.2E-02	5.0E-05	3.0E-04	1.9E-03	1.8E-02	3.3E-03	3.6E-02
SS L 27	7.8E-03	5.9E-05	3.5E-04	1.8E-03	2.5E-02	4.9E-03	4.0E-02
SS L 28	8.4E-03	7.2E-05	4.2E-04	1.2E-03	2.3E-02	6.0E-03	3.9E-02
SS L 29	4.1E-02	6.8E-05	4.0E-04	6.9E-04	2.8E-01	3.1E-02	3.6E-01
SS L 30	5.2E-03	7.4E-05	4.4E-04	1.0E-03	2.1E-02	7.1E-03	3.4E-02
SS L 31	1.0E-02	7.5E-05	4.4E-04	6.7E-03	4.7E-02	6.1E-03	7.1E-02
SS L 32	3.4E-03	7.0E-05	4.1E-04	3.4E-03	2.5E-02	5.4E-03	3.8E-02
SS L 33	1.1E-02	7.4E-05	4.3E-04	3.1E-03	3.0E-02	5.5E-03	5.0E-02
SS L 34	8.2E-03	7.4E-05	4.3E-04	4.4E-03	2.7E-02	6.3E-03	4.6E-02
SS L 35	7.7E-03	9.4E-03	6.7E-04	3.6E-03	3.8E-01	5.2E-02	4.5E-01
SS L 36	4.3E-03	2.5E-03	6.5E-04	2.1E-03	6.8E-02	1.4E-02	9.1E-02
SS M 04	5.7E-03	7.5E-05	4.4E-04	1.1E-03	1.8E-02	4.9E-03	3.0E-02
SS M 05	4.0E-03	7.1E-05	4.2E-04	1.7E-03	1.8E-02	5.2E-03	2.9E-02
SS M 06	9.6E-03	6.5E-05	3.8E-04	1.6E-03	1.9E-02	6.0E-03	3.7E-02
SS M 07	3.1E-03	5.5E-05	3.2E-04	1.8E-03	1.7E-02	4.8E-03	2.7E-02
SS M 08	3.8E-03	5.2E-05	3.1E-04	1.4E-02	9.4E-03	4.1E-03	3.2E-02
SS M 09	3.1E-03	5.3E-05	3.1E-04	1.5E-02	9.0E-03	4.5E-03	3.2E-02
SS M 10	8.0E-03	5.1E-05	3.0E-04	6.5E-03	1.0E-02	3.7E-03	2.9E-02
SS M 11	2.1E-03	5.5E-05	3.2E-04	1.1E-03	1.1E-02	4.6E-03	1.9E-02
SS M 12	9.8E-03	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.6E-03	3.6E-02
SS M 13	3.0E-03	7.5E-05	4.4E-04	2.8E-03	1.8E-02	6.6E-03	3.1E-02
SS M 14	2.2E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	6.7E-03	3.1E-02
SS M 15	3.1E-03	7.5E-05	4.4E-04	1.2E-03	1.8E-02	6.4E-03	2.9E-02
SS M 16	4.2E-03	7.0E-05	4.1E-04	1.9E-03	1.3E-02	5.6E-03	2.5E-02
SS M 17	2.0E-03	5.0E-05	2.9E-04	7.0E-04	9.8E-03	3.8E-03	1.7E-02
SS M 18	3.1E-03	5.1E-05	3.0E-04	8.9E-04	1.2E-02	4.4E-03	2.1E-02
SS M 19	2.3E-03	5.0E-05	3.0E-04	8.6E-04	9.6E-03	3.6E-03	1.7E-02
SS M 20	5.4E-03	5.0E-05	2.9E-04	7.8E-04	1.0E-02	3.3E-03	2.0E-02
SS M 21	6.2E-03	5.2E-05	3.0E-04	1.0E-03	1.3E-02	4.5E-03	2.6E-02
SS M 22	5.6E-03	5.6E-05	3.3E-04	1.5E-03	1.8E-02	4.4E-03	3.0E-02
SS M 23	9.2E-03	5.0E-05	3.0E-04	1.4E-03	1.1E-02	3.1E-03	2.5E-02
SS M 24	5.5E-03	5.0E-05	2.9E-04	2.1E-03	1.3E-02	3.3E-03	2.4E-02
SS M 25	1.7E-02	5.7E-05	3.3E-04	1.1E-03	3.1E-02	8.0E-03	5.8E-02
SS M 26	1.5E-02	7.0E-05	4.1E-04	1.2E-03	1.6E-02	4.9E-03	3.8E-02
SS M 27	1.3E-02	7.3E-05	4.3E-04	1.9E-03	2.3E-02	1.1E-02	4.9E-02
SS M 28	4.2E-02	7.4E-05	4.3E-04	8.0E-04	2.1E-01	1.6E-02	2.7E-01
SS M 29	1.8E-02	4.5E-03	3.8E-04	1.4E-03	2.5E-01	4.6E-02	3.2E-01
SS M 30	2.0E-03	7.1E-05	4.2E-04	1.0E-03	1.9E-02	6.7E-03	2.9E-02
SS M 31	1.8E-02	7.5E-05	4.4E-04	3.9E-03	5.2E-02	5.7E-03	8.0E-02
SS M 32	1.7E-02	7.4E-05	4.3E-04	3.5E-03	7.5E-02	8.9E-03	1.1E-01
SS M 33	1.8E-02	3.5E-03	4.7E-04	2.8E-03	2.1E-01	4.5E-02	2.8E-01
SS M 34	1.0E-02	6.7E-03	6.9E-05	3.7E-04	5.0E-02	2.0E-02	8.7E-02
SS M 35	4.3E-03	1.3E-03	8.4E-05	3.3E-04	5.0E-02	4.0E-02	9.6E-02
SS M 36	1.0E-03	1.0E-04	5.9E-04	9.7E-04	6.2E-02	1.4E-02	7.8E-02
SS N 03	1.8E-02	7.5E-05	4.4E-04	1.6E-03	2.5E-02	5.0E-03	4.9E-02
SS N 04	4.6E-02	7.4E-05	4.3E-04	6.9E-04	3.0E-02	5.1E-03	8.2E-02
SS N 05	2.5E-03	8.8E-05	5.2E-04	2.7E-03	2.6E-02	1.2E-02	4.4E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(7)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS N 06	1.1E-03	5.6E-05	3.3E-04	2.3E-03	1.7E-02	4.5E-03	2.5E-02
SS N 07	5.4E-03	5.7E-05	3.4E-04	7.3E-03	1.2E-02	4.0E-03	2.9E-02
SS N 08	5.4E-03	5.2E-05	3.0E-04	1.3E-02	1.1E-02	4.2E-03	3.4E-02
SS N 09	4.0E-03	5.0E-05	2.9E-04	9.9E-03	1.6E-02	3.5E-03	3.3E-02
SS N 10	2.8E-03	5.0E-05	2.9E-04	2.9E-03	1.2E-02	3.5E-03	2.1E-02
SS N 11	1.2E-03	5.5E-05	3.2E-04	7.4E-04	1.5E-02	5.2E-03	2.3E-02
SS N 12	2.6E-03	7.5E-05	4.4E-04	5.9E-04	2.2E-02	6.6E-03	3.2E-02
SS N 13	3.4E-03	7.5E-05	4.4E-04	7.0E-04	2.5E-02	5.5E-03	3.5E-02
SS N 14	1.1E-03	7.5E-05	4.4E-04	1.1E-03	1.7E-02	6.4E-03	2.7E-02
SS N 15	2.9E-03	7.5E-05	4.4E-04	1.5E-03	1.4E-02	6.1E-03	2.5E-02
SS N 16	3.2E-03	6.7E-05	3.9E-04	7.2E-04	1.6E-02	5.4E-03	2.6E-02
SS N 17	6.9E-03	5.4E-05	3.1E-04	6.1E-04	2.0E-02	5.9E-03	3.4E-02
SS N 18	2.8E-03	5.1E-05	3.0E-04	9.3E-04	1.6E-02	6.1E-03	2.6E-02
SS N 19	3.2E-03	5.0E-05	2.9E-04	6.8E-04	1.6E-02	4.1E-03	2.4E-02
SS N 20	1.6E-02	5.2E-05	3.0E-04	5.6E-04	2.0E-02	4.5E-03	4.1E-02
SS N 21	7.3E-03	5.5E-05	3.2E-04	2.3E-03	2.2E-02	6.0E-03	3.9E-02
SS N 22	6.2E-03	5.3E-05	3.1E-04	1.7E-03	2.6E-02	6.4E-03	4.1E-02
SS N 23	8.6E-03	3.1E-03	3.5E-04	3.3E-03	9.2E-02	2.0E-02	1.3E-01
SS N 24	4.1E-02	9.3E-03	4.2E-04	1.8E-03	7.0E-01	9.6E-02	8.5E-01
SS N 25	1.4E-02	7.5E-06	4.4E-05	1.8E-04	7.9E-02	4.2E-03	9.7E-02
SS N 26	1.4E-01	3.7E-02	4.4E-04	1.2E-03	1.5E+00	4.0E-01	2.0E+00
SS N 27	2.4E-01	8.3E-03	4.4E-04	2.8E-03	2.1E+00	1.8E-01	2.5E+00
SS N 28	1.7E-01	2.2E-02	4.2E-04	6.0E-06	1.2E+00	2.2E-01	1.6E+00
SS N 29	1.1E-02	6.5E-05	3.0E-05	1.0E-04	5.0E-02	1.0E-02	7.2E-02
SS N 30	2.1E-02	1.6E-03	4.4E-05	3.4E-04	5.0E-02	2.5E-02	9.8E-02
SS N 31	2.5E-02	3.0E-03	4.4E-05	1.1E-04	5.0E-02	1.0E-02	8.8E-02
SS N 32	1.0E-02	9.6E-04	4.5E-05	1.2E-04	5.0E-02	2.3E-02	8.4E-02
SS N 33	1.1E-02	2.9E-03	6.2E-05	2.1E-04	5.0E-02	3.0E-02	9.4E-02
SS N 34	1.0E-02	5.4E-03	8.8E-04	5.2E-03	5.0E-02	7.2E-02	1.4E-01
SS N 35	5.8E-02	3.0E-02	8.7E-04	2.6E-03	2.5E-01	3.0E-02	3.7E-01
SS N 36	4.5E-03	1.2E-04	6.9E-04	2.9E-04	1.6E-01	2.2E-02	1.9E-01
SS O 02	2.1E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	5.6E-03	7.5E-02
SS O 03	2.5E-02	7.5E-05	4.4E-04	7.5E-04	4.7E-02	7.8E-03	8.1E-02
SS O 04	5.8E-03	6.8E-05	4.0E-04	1.6E-03	2.2E-02	5.3E-03	3.6E-02
SS O 05	5.2E-03	5.7E-05	3.4E-04	2.3E-03	2.0E-02	5.0E-03	3.3E-02
SS O 06	1.9E-03	5.5E-05	3.3E-04	3.2E-03	1.7E-02	3.9E-03	2.6E-02
SS O 07	8.2E-03	5.3E-05	3.1E-04	4.0E-03	2.1E-02	2.7E-03	3.7E-02
SS O 08	7.5E-03	5.2E-05	3.0E-04	1.1E-02	1.4E-02	4.4E-03	3.8E-02
SS O 09	1.9E-02	6.8E-05	4.0E-04	8.3E-03	1.8E-02	5.6E-03	5.1E-02
SS O 10	5.3E-03	6.3E-05	3.7E-04	8.9E-03	1.8E-02	6.4E-03	3.9E-02
SS O 11	2.2E-03	1.1E-04	6.3E-04	4.2E-03	8.6E-02	3.0E-02	1.2E-01
SS O 12	1.1E-03	8.2E-05	4.8E-04	2.5E-03	2.4E-02	1.2E-02	4.0E-02
SS O 13	2.3E-03	7.5E-05	4.4E-04	1.9E-03	2.6E-02	7.3E-03	3.8E-02
SS O 14	1.5E-03	7.5E-05	4.4E-04	1.4E-03	2.3E-02	7.4E-03	3.4E-02
SS O 15	3.7E-03	7.5E-05	4.4E-04	1.4E-03	3.9E-02	8.1E-03	5.2E-02
SS O 16	5.8E-03	6.7E-05	3.9E-04	1.5E-03	3.2E-02	5.6E-03	4.5E-02
SS O 17	5.0E-03	6.7E-05	4.0E-04	1.5E-03	3.1E-02	5.7E-03	4.3E-02
SS O 18	9.1E-03	6.0E-05	3.5E-04	1.5E-03	3.3E-02	5.6E-03	5.0E-02
SS O 19	1.6E-02	6.0E-05	3.5E-04	1.8E-03	5.0E-02	7.1E-03	7.5E-02
SS O 20	1.0E-02	5.3E-05	3.1E-04	1.9E-03	2.4E-02	5.0E-03	4.2E-02
SS O 21	4.9E-03	5.7E-05	3.4E-04	9.1E-04	3.3E-02	7.4E-03	4.6E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(8)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS O 22	2.3E-02	5.6E-05	3.3E-04	2.1E-03	3.0E-02	5.6E-03	6.1E-02
SS O 23	4.8E-02	6.1E-05	3.6E-04	9.3E-04	2.0E-02	6.0E-03	7.6E-02
SS O 24	5.2E-02	6.6E-05	3.9E-04	1.9E-03	2.8E-02	6.0E-03	8.9E-02
SS O 25	6.0E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	8.0E-03	1.2E-01
SS O 26	2.0E-01	7.5E-05	4.4E-04	1.8E-03	5.9E-02	6.8E-03	2.7E-01
SS O 27	1.4E-01	7.5E-05	4.4E-04	1.2E-03	1.8E-01	1.0E-02	3.3E-01
SS O 28	1.4E-02	2.2E-03	4.4E-05	1.4E-03	2.0E-02	2.4E-02	6.2E-02
SS O 29	8.0E-03	2.0E-02	4.1E-04	1.5E-04	5.0E-02	1.0E-02	8.9E-02
SS O 30	3.8E-02	1.9E-03	5.1E-05	1.5E-04	4.0E-02	1.0E-02	9.0E-02
SS O 31	1.0E-02	2.6E-03	5.5E-04	2.3E-03	1.0E-02	1.6E-02	4.1E-02
SS O 32	2.6E-02	1.4E-04	8.1E-04	2.7E-03	2.0E-02	1.6E-02	6.6E-02
SS O 33	5.3E-02	1.5E-04	8.7E-04	4.8E-03	3.0E-02	1.0E-02	9.9E-02
SS O 34	5.3E-02	1.5E-04	8.7E-04	4.8E-03	3.0E-02	1.0E-02	9.9E-02
SS O 35	2.3E-02	1.1E-04	6.5E-04	1.0E-03	5.5E-02	1.5E-02	9.5E-02
SS O 36	6.6E-03	9.6E-05	5.7E-04	4.3E-04	4.1E-02	1.2E-02	6.1E-02
SS P 01	5.7E-03	3.0E-04	4.4E-04	3.1E-03	2.3E-02	7.1E-03	4.0E-02
SS P 02	9.2E-03	7.5E-04	4.4E-04	8.7E-04	2.5E-02	6.9E-03	4.3E-02
SS P 03	2.5E-03	4.9E-04	3.6E-04	1.4E-03	1.6E-02	6.2E-03	2.7E-02
SS P 04	8.5E-03	2.4E-04	3.5E-04	2.6E-03	1.5E-02	4.7E-03	3.1E-02
SS P 05	3.6E-03	1.1E-04	3.2E-04	3.1E-03	1.3E-02	4.3E-03	2.4E-02
SS P 06	5.3E-03	2.1E-04	3.1E-04	5.0E-03	1.4E-02	5.1E-03	3.0E-02
SS P 07	4.4E-03	8.0E-04	2.9E-04	2.9E-03	1.6E-02	4.9E-03	3.0E-02
SS P 08	1.2E-02	3.4E-04	3.3E-04	3.7E-03	1.5E-02	4.8E-03	3.6E-02
SS P 09	1.3E-03	3.6E-04	3.5E-04	4.6E-04	1.5E-02	6.4E-03	2.4E-02
SS P 10	2.8E-03	1.6E-03	4.3E-04	1.8E-03	1.9E-02	8.3E-03	3.4E-02
SS P 11	2.1E-03	3.0E-04	4.4E-04	7.5E-04	1.4E-02	8.3E-03	2.6E-02
SS P 12	1.7E-03	6.0E-04	4.4E-04	1.2E-03	1.9E-02	7.6E-03	3.0E-02
SS P 13	3.3E-03	7.5E-04	4.4E-04	1.8E-03	2.0E-02	6.8E-03	3.3E-02
SS P 14	2.6E-02	1.5E-04	4.4E-04	1.9E-03	6.5E-02	8.8E-03	1.0E-01
SS P 15	5.5E-03	4.4E-04	4.3E-04	1.3E-03	2.5E-02	6.5E-03	3.9E-02
SS P 16	4.6E-03	1.3E-04	3.8E-04	1.0E-03	2.1E-02	5.7E-03	3.3E-02
SS P 17	2.0E-02	0.0E+00	3.8E-04	2.6E-03	4.5E-02	6.9E-03	7.4E-02
SS P 18	1.4E-02	1.1E-04	3.4E-04	2.9E-03	3.5E-02	6.6E-03	5.9E-02
SS P 19	1.6E-02	1.2E-04	3.7E-04	1.4E-03	4.1E-02	6.7E-03	6.5E-02
SS P 20	8.3E-03	3.8E-04	3.7E-04	8.4E-04	1.8E-02	6.4E-03	3.5E-02
SS P 21	8.3E-03	3.8E-04	3.7E-04	8.4E-04	1.8E-02	6.4E-03	3.5E-02
SS P 22	1.1E-02	1.7E-03	3.3E-04	9.5E-04	3.2E-02	6.9E-03	5.2E-02
SS P 23	1.8E-02	0.0E+00	3.7E-04	2.2E-03	2.3E-02	7.2E-03	5.1E-02
SS P 24	1.3E-02	5.5E-04	4.0E-04	1.8E-03	2.1E-02	6.9E-03	4.4E-02
SS P 25	3.5E-02	1.4E-04	4.1E-04	1.4E-03	3.2E-02	7.0E-03	7.5E-02
SS P 26	7.5E-02	5.1E-04	3.8E-04	2.5E-03	3.3E-02	7.1E-03	1.2E-01
SS P 27	4.6E-02	1.1E-04	3.2E-04	1.5E-03	5.2E-02	6.2E-03	1.1E-01
SS P 28	3.6E-02	1.0E-04	5.9E-04	7.6E-04	5.0E-01	1.7E-02	5.6E-01
SS P 29	3.2E-02	1.2E-04	7.1E-04	3.0E-03	1.0E+00	2.9E-02	1.1E+00
SS P 30	4.6E-02	1.2E-04	7.0E-04	5.0E-03	1.2E-01	1.5E-02	1.8E-01
SS P 31	5.2E-02	1.4E-04	8.3E-04	4.5E-03	8.2E-02	1.3E-02	1.5E-01
SS P 32	1.6E-01	1.5E-04	8.6E-04	4.4E-03	1.1E-01	1.4E-02	2.8E-01
SS P 33	1.3E-02	1.2E-04	7.1E-04	2.3E-03	1.2E-01	2.4E-02	1.6E-01
SS P 34	4.2E-05	8.3E-05	4.9E-04	3.7E-04	2.8E-02	8.0E-03	3.7E-02
SS P 35	1.3E-02	7.5E-05	4.4E-04	4.4E-04	2.5E-02	7.3E-03	4.6E-02
SS P 36	3.1E-03	7.4E-05	4.3E-04	8.5E-04	2.9E-02	7.7E-03	4.1E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(9)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS Q 01	9.3E-03	5.9E-04	4.3E-04	1.4E-03	2.7E-02	7.1E-03	4.6E-02
SS Q 02	3.5E-03	3.3E-04	3.3E-04	6.8E-04	1.8E-02	5.8E-03	2.8E-02
SS Q 03	3.7E-03	4.3E-04	3.1E-04	2.0E-03	1.6E-02	6.0E-03	2.8E-02
SS Q 04	3.3E-03	4.3E-04	3.1E-04	1.4E-03	1.5E-02	4.4E-03	2.5E-02
SS Q 05	3.7E-03	2.2E-04	3.3E-04	6.2E-03	1.3E-02	4.1E-03	2.8E-02
SS Q 06	7.2E-03	1.0E-04	3.0E-04	1.7E-03	1.2E-02	3.9E-03	2.5E-02
SS Q 07	5.3E-03	2.0E-04	2.9E-04	2.9E-03	1.3E-02	3.6E-03	2.5E-02
SS Q 08	6.0E-03	1.0E-04	3.1E-04	1.5E-03	1.3E-02	4.1E-03	2.5E-02
SS Q 09	4.9E-03	1.1E-04	3.2E-04	2.3E-03	1.3E-02	4.6E-03	2.5E-02
SS Q 10	1.8E-03	3.0E-04	4.4E-04	1.8E-03	1.8E-02	6.3E-03	2.9E-02
SS Q 11	2.9E-03	7.5E-04	4.4E-04	1.3E-03	2.2E-02	6.3E-03	3.3E-02
SS Q 12	3.8E-05	7.5E-04	4.4E-04	1.6E-03	1.4E-02	5.7E-03	2.3E-02
SS Q 13	1.7E-03	6.0E-04	4.4E-04	1.4E-03	2.3E-02	6.4E-03	3.4E-02
SS Q 14	1.2E-02	7.5E-04	4.4E-04	2.0E-03	4.7E-02	7.7E-03	7.0E-02
SS Q 15	6.8E-03	9.2E-04	3.9E-04	1.9E-03	2.2E-02	5.7E-03	3.8E-02
SS Q 16	1.7E-02	2.9E-04	4.2E-04	2.0E-03	3.8E-02	7.5E-03	6.5E-02
SS Q 17	1.6E-02	6.4E-04	3.8E-04	3.4E-03	4.8E-02	6.1E-03	7.5E-02
SS Q 18	1.7E-02	6.0E-04	4.4E-04	2.7E-03	4.6E-02	6.8E-03	7.3E-02
SS Q 19	1.0E-02	6.7E-04	3.9E-04	1.6E-03	3.2E-02	6.4E-03	5.1E-02
SS Q 20	1.0E-02	6.7E-04	3.9E-04	1.6E-03	3.2E-02	6.4E-03	5.1E-02
SS Q 21	2.8E-02	7.3E-04	4.3E-04	1.3E-03	3.8E-02	8.6E-03	7.7E-02
SS Q 22	5.1E-02	1.4E-04	4.2E-04	1.5E-03	3.3E-02	8.0E-03	9.4E-02
SS Q 23	2.3E-02	1.7E-03	4.5E-04	1.0E-03	9.0E-02	1.3E-02	1.3E-01
SS Q 24	2.9E-02	4.7E-04	4.6E-04	2.4E-03	1.2E-01	1.1E-02	1.7E-01
SS Q 25	1.6E-02	2.1E-04	3.1E-04	1.4E-03	4.8E-02	6.1E-03	7.1E-02
SS Q 26	1.6E-02	3.0E-04	2.9E-04	6.9E-04	3.2E-02	6.0E-03	5.5E-02
SS Q 27	6.7E-02	3.0E-04	2.9E-04	1.1E-03	2.7E-02	5.2E-03	1.0E-01
SS Q 28	2.4E-02	6.7E-05	3.9E-04	6.1E-04	3.9E-02	8.4E-03	7.2E-02
SS Q 29	1.1E-02	1.2E-03	3.6E-04	1.5E-03	4.6E-02	7.9E-03	6.7E-02
SS Q 30	9.6E-03	5.7E-05	3.4E-04	1.3E-03	3.1E-02	8.7E-03	5.1E-02
SS Q 31	9.4E-03	6.3E-05	3.7E-04	1.3E-03	3.3E-02	9.8E-03	5.4E-02
SS Q 32	5.3E-03	7.5E-04	4.4E-04	1.5E-03	3.6E-02	1.0E-02	5.4E-02
SS Q 33	3.6E-03	1.4E-03	4.6E-04	1.1E-03	2.5E-02	7.6E-03	3.9E-02
SS R 01	3.4E-03	6.2E-05	3.7E-04	9.0E-04	1.9E-02	5.3E-03	2.9E-02
SS R 02	2.5E-03	5.1E-05	3.0E-04	1.7E-03	1.5E-02	3.8E-03	2.3E-02
SS R 03	3.5E-03	5.0E-05	3.0E-04	1.5E-03	1.8E-02	5.0E-03	2.9E-02
SS R 04	3.9E-03	5.9E-05	3.5E-04	1.8E-03	2.4E-02	6.7E-03	3.7E-02
SS R 05	4.8E-03	6.5E-05	3.8E-04	2.5E-03	2.7E-02	7.2E-03	4.2E-02
SS R 06	7.6E-03	5.4E-05	3.2E-04	1.4E-03	1.9E-02	4.6E-03	3.3E-02
SS R 07	4.9E-03	5.2E-05	3.1E-04	2.9E-03	1.9E-02	5.1E-03	3.3E-02
SS R 08	6.0E-03	6.1E-05	3.6E-04	3.0E-03	2.1E-02	5.9E-03	3.6E-02
SS R 09	1.9E-03	6.7E-05	4.0E-04	1.4E-03	2.2E-02	7.1E-03	3.3E-02
SS R 10	3.1E-03	7.5E-05	4.4E-04	1.3E-03	2.2E-02	7.6E-03	3.4E-02
SS R 11	2.2E-03	7.5E-05	4.4E-04	1.8E-03	2.6E-02	7.2E-03	3.8E-02
SS R 12	1.1E-03	7.2E-05	4.3E-04	1.5E-03	1.9E-02	6.0E-03	2.8E-02
SS R 13	1.2E-03	7.1E-05	4.2E-04	1.5E-03	3.0E-02	6.8E-03	4.0E-02
SS R 14	5.1E-04	2.1E-03	5.1E-05	1.8E-04	5.0E-02	2.1E-02	7.4E-02
SS R 15	5.1E-04	2.1E-03	5.1E-05	1.8E-04	5.0E-02	2.1E-02	7.4E-02
SS R 16	7.0E-04	4.0E-03	2.0E-04	8.0E-04	5.0E-02	3.0E-02	8.6E-02
SS R 17	9.1E-03	3.0E-05	2.0E-04	9.5E-04	3.0E-02	8.1E-03	4.8E-02
SS R 18	1.0E-02	2.1E-03	4.2E-04	2.9E-03	5.0E-02	7.8E-04	6.6E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(10)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS R 19	9.4E-03	7.5E-05	4.4E-04	1.3E-03	4.8E-02	9.4E-03	6.8E-02
SS R 20	1.7E-02	7.5E-05	4.4E-04	2.8E-03	4.8E-02	1.5E-02	8.3E-02
SS R 21	1.8E-02	7.5E-05	4.4E-04	4.9E-03	3.7E-02	9.0E-03	6.9E-02
SS R 22	2.7E-02	7.5E-05	4.4E-04	3.4E-03	3.0E-02	1.3E-02	7.4E-02
SS R 23	2.8E-02	7.3E-05	4.3E-04	1.2E-03	3.6E-02	8.6E-03	7.4E-02
SS R 24	3.6E-02	7.3E-05	4.3E-04	5.5E-04	2.4E-02	7.5E-03	6.9E-02
SS R 25	3.1E-01	3.1E-03	3.3E-04	8.9E-04	2.6E-02	6.0E-03	3.5E-01
SS R 26	8.0E-02	1.0E-03	2.9E-04	8.0E-04	2.2E-02	4.2E-03	1.1E-01
SS R 27	5.7E-02	5.3E-05	3.1E-04	9.3E-04	2.0E-02	6.0E-03	8.4E-02
SS R 28	3.4E-02	7.1E-05	4.2E-04	1.4E-03	4.0E-02	9.1E-03	8.4E-02
SS R 29	1.2E-02	5.0E-05	3.0E-04	1.3E-03	1.8E-02	4.6E-03	3.7E-02
SS R 30	1.5E-02	5.0E-05	2.9E-04	1.2E-03	2.3E-02	4.0E-03	4.4E-02
SS R 31	4.9E-03	5.8E-05	3.4E-04	9.1E-04	2.3E-02	7.0E-03	3.6E-02
SS R 32	5.4E-03	7.4E-05	4.4E-04	1.0E-03	4.5E-02	9.2E-03	6.1E-02
SS R 33	5.5E-03	7.5E-05	4.4E-04	9.6E-04	2.6E-02	6.7E-03	3.9E-02
SS S 01	6.1E-03	6.0E-05	3.5E-04	2.6E-03	1.5E-02	4.3E-03	2.8E-02
SS S 02	2.6E-03	5.6E-05	3.3E-04	2.7E-03	1.5E-02	3.9E-03	2.5E-02
SS S 03	3.6E-03	5.7E-05	3.4E-04	8.3E-04	1.5E-02	5.2E-03	2.5E-02
SS S 04	2.6E-03	5.3E-05	3.1E-04	3.5E-03	4.4E-02	6.5E-03	5.7E-02
SS S 05	3.9E-03	2.1E-03	3.2E-04	3.4E-03	6.5E-02	1.6E-02	9.1E-02
SS S 06	5.7E-03	3.8E-03	3.0E-04	2.5E-03	1.3E-01	3.1E-02	1.8E-01
SS S 07	7.4E-03	5.9E-03	3.3E-04	2.6E-03	3.0E-01	5.2E-02	3.7E-01
SS S 08	7.9E-03	4.0E-03	3.9E-04	3.4E-03	1.5E-01	3.1E-02	1.9E-01
SS S 09	1.9E-03	1.2E-03	4.1E-04	2.1E-03	6.3E-02	9.9E-03	7.9E-02
SS S 10	2.7E-03	1.2E-03	4.2E-05	1.7E-04	4.0E-02	1.2E-02	5.6E-02
SS S 11	7.0E-03	6.0E-03	2.0E-04	1.0E-03	5.0E-02	2.0E-02	8.4E-02
SS S 12	9.0E-03	4.0E-03	3.5E-04	1.9E-03	5.0E-02	1.5E-02	8.0E-02
SS S 13	4.0E-03	9.1E-03	2.0E-04	8.0E-04	5.0E-02	2.0E-02	8.4E-02
SS S 14	1.7E-03	5.7E-03	4.2E-04	2.3E-03	5.0E-02	2.0E-02	8.0E-02
SS S 15	5.6E-03	1.4E-03	3.7E-04	1.4E-04	5.0E-02	5.0E-03	6.2E-02
SS S 16	5.0E-03	1.0E-03	3.7E-04	3.0E-04	5.0E-02	1.0E-02	6.7E-02
SS S 17	5.9E-03	9.6E-04	4.0E-05	1.2E-04	5.0E-02	1.0E-02	6.7E-02
SS S 18	5.0E-03	2.0E-03	2.0E-04	1.0E-03	5.0E-02	1.0E-02	6.8E-02
SS S 19	8.4E-03	6.5E-05	3.8E-04	1.5E-03	2.7E-02	7.0E-03	4.4E-02
SS S 20	1.2E-02	6.7E-05	3.9E-04	3.2E-03	3.1E-02	7.0E-03	5.3E-02
SS S 21	4.0E-02	1.2E-03	4.4E-04	5.6E-04	1.6E-02	7.7E-03	6.6E-02
SS S 22	4.4E-02	1.1E-03	4.4E-04	2.7E-03	3.5E-02	1.1E-02	9.3E-02
SS S 23	5.6E-01	3.5E-03	4.4E-04	1.7E-03	2.5E-02	7.7E-03	6.0E-01
SS S 24	1.0E-01	1.0E-03	4.4E-04	1.4E-03	3.0E-02	7.1E-03	1.4E-01
SS S 25	8.8E-02	9.9E-04	3.6E-04	2.1E-03	2.4E-02	9.1E-03	1.2E-01
SS S 26	9.1E-02	1.0E-03	3.4E-04	8.3E-04	1.4E-02	5.2E-03	1.1E-01
SS S 27	8.8E-02	1.0E-03	3.8E-04	7.2E-04	2.4E-02	8.0E-03	1.2E-01
SS S 28	7.8E-03	1.2E-03	3.4E-04	2.2E-03	2.4E-02	6.5E-03	4.2E-02
SS S 29	3.0E-03	5.0E-05	2.9E-04	2.2E-03	1.7E-02	4.2E-03	2.7E-02
SS S 30	6.1E-03	1.2E-03	3.0E-04	1.5E-03	5.0E-02	8.5E-03	6.8E-02
SS S 31	9.1E-03	1.5E-03	3.9E-04	1.2E-03	9.6E-02	1.1E-02	1.2E-01
SS S 32	5.9E-03	7.5E-05	4.4E-04	8.0E-04	3.2E-02	1.1E-02	5.0E-02
SS S 33	1.5E-02	1.8E-03	4.4E-04	9.0E-04	3.3E-02	1.1E-02	6.3E-02
SS T 01	5.1E-03	1.2E-03	3.4E-04	2.5E-03	2.4E-02	7.0E-03	4.0E-02
SS T 02	4.7E-03	1.4E-03	3.9E-04	4.5E-03	3.4E-02	9.0E-03	5.4E-02
SS T 03	3.0E-03	1.6E-03	3.9E-04	5.3E-03	3.6E-02	1.2E-02	5.8E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(11)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS T 04	3.0E-03	1.2E-03	3.2E-04	3.8E-03	3.2E-02	9.8E-03	5.0E-02
SS T 05	1.5E-02	1.2E-02	3.6E-04	2.9E-03	5.7E-01	1.0E-01	7.0E-01
SS T 06	1.9E-02	8.1E-03	3.9E-04	1.9E-03	3.7E-01	6.7E-02	4.7E-01
SS T 07	1.8E-02	8.0E-03	4.2E-04	1.7E-03	3.0E-01	6.5E-02	3.9E-01
SS T 08	1.8E-02	5.0E-03	3.9E-04	1.0E-03	3.0E-01	4.5E-02	3.7E-01
SS T 09	5.0E-03	5.0E-03	4.2E-04	1.3E-03	5.0E-03	1.0E-02	2.7E-02
SS T 10	5.0E-03	5.0E-03	4.4E-04	1.6E-03	5.0E-03	1.0E-02	2.7E-02
SS T 11	1.5E-02	3.6E-03	4.1E-04	2.4E-03	2.0E-01	3.4E-02	2.6E-01
SS T 12	9.8E-03	7.2E-05	4.2E-04	1.3E-03	2.2E-02	7.4E-03	4.1E-02
SS T 13	8.1E-03	7.4E-05	4.4E-04	1.2E-03	2.1E-02	7.5E-03	3.8E-02
SS T 14	1.7E-02	7.2E-05	4.2E-04	1.1E-03	1.8E-02	7.1E-03	4.4E-02
SS T 15	1.6E-03	7.6E-05	4.5E-04	1.0E-03	1.4E-02	6.2E-03	2.4E-02
SS T 16	4.6E-03	9.2E-05	5.4E-04	1.3E-03	3.0E-02	1.3E-02	4.9E-02
SS T 17	6.3E-03	6.8E-05	4.0E-04	5.2E-04	1.7E-02	7.1E-03	3.1E-02
SS T 18	1.7E-02	6.9E-05	4.1E-04	1.1E-03	2.2E-02	7.4E-03	4.8E-02
SS T 19	1.0E-02	2.0E-03	4.0E-04	1.3E-03	1.4E-01	2.0E-02	1.8E-01
SS T 20	1.1E-02	1.6E-03	3.6E-04	1.2E-03	1.3E-01	1.7E-02	1.7E-01
SS T 21	3.9E-02	6.9E-05	4.1E-04	1.6E-03	1.4E-01	2.3E-02	2.1E-01
SS T 22	7.9E-02	7.4E-05	4.3E-04	1.2E-03	1.5E-02	6.1E-03	1.0E-01
SS T 23	2.6E-01	7.4E-05	4.4E-04	8.5E-04	1.4E-02	5.5E-03	2.8E-01
SS T 24	8.0E-02	1.0E-03	1.0E-04	1.0E-03	8.0E-03	1.0E-03	9.1E-02
SS T 25	2.0E-02	7.5E-05	4.4E-04	1.4E-03	1.8E-02	7.7E-03	4.8E-02
SS T 26	4.3E-02	7.1E-05	4.2E-04	7.6E-04	1.4E-02	5.8E-03	6.4E-02
SS T 27	2.3E-02	7.1E-05	4.2E-04	1.4E-03	2.9E-02	8.5E-03	6.3E-02
SS T 28	5.7E-03	6.1E-05	3.6E-04	3.3E-03	1.5E-02	5.0E-03	2.9E-02
SS T 29	5.3E-03	5.0E-05	2.9E-04	1.8E-03	1.5E-02	4.1E-03	2.7E-02
SS T 30	6.8E-03	5.6E-05	3.3E-04	1.4E-03	2.1E-02	5.7E-03	3.5E-02
SS T 31	8.7E-03	7.5E-05	4.4E-04	1.0E-03	2.8E-02	8.7E-03	4.7E-02
SS T 32	1.0E-02	3.0E-03	2.0E-04	3.0E-04	5.0E-02	3.0E-02	9.4E-02
SS T 33	6.3E-02	7.5E-05	4.4E-04	5.2E-04	2.7E-02	1.0E-02	1.0E-01
SS U 01	1.7E-03	6.1E-05	3.6E-04	1.7E-03	2.8E-02	6.1E-03	3.8E-02
SS U 02	4.4E-03	2.8E-03	3.3E-04	2.7E-03	1.2E-01	2.6E-02	1.5E-01
SS U 03	6.7E-03	3.6E-03	3.5E-04	2.4E-03	1.5E-01	3.2E-02	2.0E-01
SS U 04	1.1E-02	4.4E-03	3.9E-04	1.8E-03	1.8E-01	4.6E-02	2.4E-01
SS U 05	9.3E-03	5.7E-03	4.0E-04	2.2E-03	2.4E-01	5.4E-02	3.1E-01
SS U 06	1.8E-03	6.0E-05	3.5E-04	1.1E-03	3.2E-02	9.1E-03	4.5E-02
SS U 07	1.1E-02	7.8E-05	4.6E-04	2.0E-03	3.0E-02	1.3E-02	5.7E-02
SS U 08	8.5E-03	7.6E-05	4.5E-04	2.0E-03	1.7E-02	5.3E-03	3.3E-02
SS U 09	2.1E-02	7.5E-05	4.4E-04	2.5E-03	2.4E-02	1.0E-02	5.8E-02
SS U 10	3.0E-02	7.5E-05	4.4E-04	2.1E-03	3.3E-02	1.2E-02	7.7E-02
SS U 11	2.4E-02	7.5E-05	4.4E-04	2.0E-03	3.0E-02	1.1E-02	6.8E-02
SS U 12	9.1E-03	1.6E-03	4.4E-04	2.1E-03	3.0E-02	7.0E-03	5.0E-02
SS U 13	6.2E-03	1.5E-03	4.4E-04	1.5E-03	4.5E-02	9.9E-03	6.4E-02
SS U 14	6.8E-03	7.5E-05	4.4E-04	1.2E-03	5.7E-02	8.4E-03	7.4E-02
SS U 15	5.6E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.9E-02
SS U 16	3.0E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.7E-02
SS U 17	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.8E-02	3.5E-03	3.8E-02
SS U 18	1.1E-02	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	6.5E-02
SS U 19	8.3E-03	1.6E-03	4.3E-04	1.1E-03	4.4E-02	5.5E-03	6.1E-02
SS U 20	5.0E-03	6.8E-05	4.0E-04	9.9E-04	1.6E-02	6.7E-03	2.9E-02
SS U 21	3.0E-02	7.0E-05	4.1E-04	1.2E-03	1.8E-02	8.2E-03	5.8E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(12)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS U 22	1.2E-02	1.8E-03	3.8E-04	2.3E-03	1.6E-01	2.3E-02	2.0E-01
SS U 23	4.6E-02	1.5E-03	4.2E-04	9.6E-04	2.3E-01	2.8E-02	3.0E-01
SS U 24	1.3E-01	6.8E-05	4.0E-04	1.1E-03	2.5E-02	9.1E-03	1.6E-01
SS U 25	5.3E-02	7.4E-05	4.4E-04	9.1E-04	1.4E-02	4.4E-03	7.2E-02
SS U 26	8.4E-02	7.5E-05	4.4E-04	6.0E-04	1.3E-02	4.3E-03	1.0E-01
SS U 27	1.0E-01	3.0E-04	1.0E-04	2.0E-04	3.0E-03	1.0E-03	1.0E-01
SS U 28	8.2E-03	6.9E-05	4.0E-04	2.3E-03	1.4E-01	1.2E-02	1.6E-01
SS U 29	1.1E-02	6.1E-05	3.6E-04	2.0E-03	2.8E-02	6.0E-03	4.7E-02
SS U 30	3.1E-03	6.4E-04	4.2E-05	1.2E-04	2.0E-02	6.7E-02	9.1E-02
SS U 31	5.0E-02	7.5E-05	4.4E-04	5.3E-04	1.0E-02	1.0E-03	6.2E-02
SS U 32	8.5E-02	7.5E-05	4.4E-04	8.5E-04	5.0E-03	7.6E-03	9.9E-02
SS U 33	6.0E-02	7.5E-05	4.4E-04	1.2E-03	2.3E-02	7.1E-03	9.1E-02
SS V 01	9.2E-03	2.9E-03	4.0E-04	2.2E-03	1.8E-01	3.0E-02	2.2E-01
SS V 02	1.3E-02	4.3E-03	3.5E-04	2.4E-03	2.1E-01	5.7E-02	2.9E-01
SS V 03	1.2E-02	3.4E-03	3.3E-04	2.0E-03	1.7E-01	3.9E-02	2.3E-01
SS V 04	1.3E-02	5.1E-03	3.3E-04	1.5E-03	2.2E-01	5.0E-02	2.9E-01
SS V 05	1.7E-02	6.0E-05	3.5E-04	2.7E-03	2.3E-02	1.4E-02	5.7E-02
SS V 06	1.1E-02	6.5E-05	3.8E-04	3.1E-03	2.2E-02	8.7E-03	4.5E-02
SS V 07	2.9E-02	7.4E-05	4.4E-04	2.3E-03	2.4E-02	1.2E-02	6.7E-02
SS V 08	1.3E-02	6.0E-05	3.5E-04	1.8E-03	2.0E-02	5.8E-03	4.1E-02
SS V 09	1.4E-02	6.2E-05	3.6E-04	2.0E-03	1.8E-02	6.6E-03	4.1E-02
SS V 10	1.5E-02	6.2E-05	3.6E-04	2.5E-03	1.7E-02	9.3E-03	4.4E-02
SS V 11	5.2E-03	7.1E-05	4.2E-04	7.1E-04	1.7E-02	6.0E-03	3.0E-02
SS V 12	8.5E-03	7.2E-05	4.2E-04	6.0E-04	1.8E-02	5.8E-03	3.3E-02
SS V 13	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.2E-02	5.4E-03	3.4E-02
SS V 14	8.0E-03	7.5E-05	4.4E-04	8.6E-04	1.4E-02	6.6E-03	3.0E-02
SS V 15	2.8E-03	7.5E-05	4.4E-04	1.1E-03	7.9E-03	5.5E-03	1.8E-02
SS V 16	1.2E-02	7.5E-05	4.4E-04	2.6E-04	2.8E-02	4.6E-03	4.6E-02
SS V 17	5.6E-03	7.5E-05	4.4E-04	4.2E-03	1.8E-02	6.5E-03	3.5E-02
SS V 18	5.1E-03	7.5E-05	4.4E-04	1.9E-03	2.3E-02	7.8E-03	3.9E-02
SS V 19	1.5E-03	7.5E-05	4.4E-04	8.7E-04	1.3E-02	7.2E-03	2.3E-02
SS V 20	5.6E-03	7.5E-05	4.4E-04	1.5E-03	1.5E-02	7.1E-03	3.0E-02
SS V 21	2.2E-02	7.5E-05	4.4E-04	9.8E-04	1.6E-02	6.8E-03	4.6E-02
SS V 22	4.5E-03	7.2E-05	4.3E-04	1.1E-03	1.5E-02	7.2E-03	2.8E-02
SS V 23	6.6E-03	6.4E-05	3.8E-04	1.3E-03	2.2E-02	6.7E-03	3.7E-02
SS V 24	1.2E-02	2.6E-03	3.9E-04	1.4E-03	2.9E-01	3.1E-02	3.4E-01
SS V 25	2.9E-02	1.7E-03	5.0E-04	1.6E-03	1.6E-01	2.3E-02	2.1E-01
SS V 26	8.7E-02	9.3E-05	5.4E-04	1.8E-03	7.9E-02	1.4E-02	1.8E-01
SS V 27	6.3E-02	7.1E-05	4.2E-04	7.9E-04	2.5E-02	5.6E-03	9.5E-02
SS V 28	2.7E-02	2.6E-03	4.3E-04	1.5E-03	3.3E-01	3.8E-02	4.0E-01
SS V 29	7.6E-02	7.2E-05	4.2E-04	1.3E-03	1.8E-02	9.3E-03	1.1E-01
SS V 30	3.4E-02	7.5E-05	4.4E-04	7.9E-03	2.7E-02	7.8E-03	7.7E-02
SS V 31	5.3E-02	7.5E-05	4.4E-04	3.7E-03	2.1E-02	8.2E-03	8.7E-02
SS V 32	5.0E-02	7.5E-05	4.4E-04	1.1E-03	2.9E-02	6.9E-03	8.8E-02
SS V 33	1.3E-02	7.4E-05	4.4E-04	1.5E-03	2.1E-02	6.7E-03	4.3E-02
SS W 01	2.6E-02	1.0E-02	4.1E-04	1.7E-03	4.6E-01	8.3E-02	5.8E-01
SS W 02	1.8E-02	7.6E-03	3.0E-04	1.4E-03	3.8E-01	7.0E-02	4.7E-01
SS W 03	1.3E-02	6.0E-05	3.5E-04	1.9E-03	1.9E-02	6.4E-03	4.1E-02
SS W 04	2.0E-02	6.3E-05	3.7E-04	2.4E-03	2.3E-02	5.8E-03	5.2E-02
SS W 05	2.2E-02	6.5E-05	3.8E-04	2.4E-03	2.4E-02	9.9E-03	5.9E-02
SS W 06	1.9E-02	6.7E-05	3.9E-04	2.8E-03	2.7E-02	8.1E-03	5.7E-02

Data 6-8 Exposure Risk of Heavy Metals in Soil, Case -1: Implementation of Alternative-1 in All of Priority No.1 ~ No.5 Area

(13)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS W 07	2.5E-02	7.5E-05	4.4E-04	3.1E-03	2.9E-02	1.1E-02	6.8E-02
SS W 08	2.1E-02	6.6E-05	3.9E-04	2.8E-03	2.5E-02	9.9E-03	6.0E-02
SS W 09	3.5E-02	6.7E-05	3.9E-04	3.2E-04	1.5E-02	4.3E-03	5.4E-02
SS W 10	3.7E-03	5.9E-05	3.4E-04	1.8E-03	1.0E-02	4.3E-03	2.1E-02
SS W 11	2.6E-03	6.1E-05	3.6E-04	1.7E-03	1.2E-02	4.4E-03	2.1E-02
SS W 12	7.6E-03	5.9E-05	3.5E-04	1.2E-03	1.3E-02	3.6E-03	2.6E-02
SS W 13	9.7E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	5.0E-03	3.7E-02
SS W 14	4.1E-03	7.5E-05	4.4E-04	1.3E-03	1.6E-02	5.2E-03	2.7E-02
SS W 15	6.8E-03	7.5E-05	4.4E-04	1.3E-03	1.0E-02	5.0E-03	2.4E-02
SS W 16	1.3E-03	7.5E-05	4.4E-04	1.2E-03	9.2E-03	5.1E-03	1.7E-02
SS W 17	2.5E-03	7.5E-05	4.4E-04	1.6E-03	1.8E-02	4.9E-03	2.7E-02
SS W 18	5.5E-03	7.5E-05	4.4E-04	1.0E-03	1.5E-02	4.8E-03	2.7E-02
SS W 19	1.7E-02	7.5E-05	4.4E-04	2.1E-03	1.5E-02	5.7E-03	4.0E-02
SS W 20	1.8E-02	7.5E-05	4.4E-04	1.3E-03	1.2E-02	6.2E-03	3.8E-02
SS W 21	5.5E-03	7.5E-05	4.4E-04	1.6E-03	1.6E-02	6.0E-03	3.0E-02
SS W 22	5.7E-03	7.5E-05	4.4E-04	1.9E-03	1.8E-02	8.3E-03	3.5E-02
SS W 23	1.3E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	9.5E-03	4.1E-02
SS W 24	1.4E-02	6.6E-05	3.9E-04	1.2E-03	1.5E-02	6.9E-03	3.7E-02
SS W 25	5.1E-02	7.2E-05	4.2E-04	2.2E-03	4.0E-02	1.3E-02	1.1E-01
SS W 26	1.3E-02	7.3E-05	4.3E-04	3.1E-03	5.3E-02	1.5E-02	8.4E-02
SS W 27	6.9E-02	7.3E-05	4.3E-04	4.0E-03	1.3E-01	3.1E-02	2.3E-01
SS W 28	2.9E-01	7.1E-05	4.2E-04	4.0E-03	2.1E-02	6.3E-03	3.2E-01
SS W 29	1.4E-01	7.5E-05	4.4E-04	3.5E-02	3.8E-02	1.1E-02	2.2E-01
SS W 30	1.9E-01	7.5E-05	4.4E-04	1.3E-02	2.8E-02	1.1E-02	2.4E-01
SS W 31	4.1E-02	7.5E-05	4.4E-04	1.0E-02	2.3E-02	8.2E-03	8.2E-02
SS W 32	3.4E-02	6.9E-05	4.0E-04	1.2E-03	2.8E-02	1.1E-02	7.5E-02
SS W 33	5.0E-02	7.4E-05	4.4E-04	1.6E-03	3.1E-02	1.1E-02	9.5E-02
SS X 24	1.1E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	7.1E-03	3.7E-02
SS X 25	7.3E-02	7.5E-05	4.4E-04	3.0E-03	2.1E-02	8.2E-03	1.1E-01
SS X 26	2.9E-02	7.5E-05	4.4E-04	5.7E-04	1.1E-02	5.0E-03	4.6E-02
SS X 27	1.0E-02	7.0E-05	4.1E-04	3.4E-03	5.2E-02	1.5E-02	8.1E-02
SS X 28	7.0E-02	1.4E-03	4.2E-04	1.7E-02	2.5E-02	6.0E-03	1.2E-01
SS X 29	8.8E-02	6.8E-05	4.0E-04	7.1E-03	2.1E-02	5.3E-03	1.2E-01
SS X 30	6.7E-02	7.2E-05	4.2E-04	4.1E-03	2.4E-02	5.7E-03	1.0E-01
SS X 31	4.4E-02	7.3E-05	4.3E-04	1.2E-03	2.2E-02	5.6E-03	7.3E-02
SS X 32	5.8E-03	7.1E-05	4.2E-04	2.2E-03	1.9E-02	5.4E-03	3.3E-02
SS X 33	3.1E-02	7.3E-05	4.3E-04	7.2E-04	2.2E-02	4.9E-03	5.9E-02
SS Y 24	8.1E-02	7.5E-05	4.4E-04	1.5E-03	2.0E-02	1.3E-02	1.1E-01
SS Y 25	1.7E-01	7.5E-05	4.4E-04	1.2E-03	1.9E-02	9.2E-03	2.0E-01
SS Y 26	7.5E-02	7.5E-05	4.4E-04	1.6E-03	2.7E-02	6.5E-03	1.1E-01
SS Y 27	4.4E-02	7.4E-05	4.3E-04	1.2E-03	2.2E-02	6.9E-03	7.5E-02
SS Y 28	3.4E-02	7.1E-05	4.2E-04	2.3E-03	5.8E-02	1.3E-02	1.1E-01
SS Y 29	3.6E-02	8.6E-05	5.0E-04	3.1E-03	6.2E-02	2.1E-02	1.2E-01
SS Y 30	3.5E-02	7.3E-05	4.3E-04	1.8E-03	3.9E-02	1.2E-02	8.7E-02
SS Y 31	3.9E-02	2.8E-03	7.0E-04	2.4E-03	8.4E-02	4.9E-02	1.8E-01
SS Y 32	1.6E-02	2.9E-03	4.9E-04	2.8E-03	1.1E-01	4.9E-02	1.8E-01
SS Y 33	1.1E-02	2.6E-03	4.4E-04	1.6E-03	6.0E-02	4.1E-02	1.2E-01
SS Z 24	1.0E-01	7.5E-05	4.4E-04	1.9E-03	4.0E-02	2.2E-02	1.7E-01
SS Z 25	2.7E-01	7.5E-05	9.4E-04	7.8E-04	1.2E-01	1.1E-02	4.1E-01
SS Z 26	1.1E-01	7.5E-05	2.1E-03	1.7E-03	8.9E-02	2.3E-02	2.3E-01
SS Z 27	4.8E-02	7.5E-05	4.4E-04	1.5E-03	2.9E-02	8.1E-03	8.8E-02

**Data 6-9 Exposure Risk of Heavy Metals in Soil,
Case -2: Implementation of Alternative-1
in All of Priority No.1 Area**

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1 Area

(1)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS A 13	1.3E-02	7.5E-05	4.4E-04	2.5E-03	2.2E-02	6.1E-03	4.5E-02
SS A 14	1.1E-02	1.3E-03	3.8E-04	2.4E-03	1.7E-02	5.5E-03	3.8E-02
SS A 15	9.8E-03	1.4E-03	4.1E-04	3.5E-03	1.9E-02	5.3E-03	3.9E-02
SS A 16	9.0E-03	1.5E-03	4.4E-04	2.1E-03	2.7E-02	5.6E-03	4.6E-02
SS A 17	7.1E-03	6.5E-05	3.8E-04	2.3E-03	1.9E-02	5.8E-03	3.5E-02
SS A 18	1.2E-02	1.5E-03	4.4E-04	1.1E-02	2.0E-02	7.7E-03	5.2E-02
SS A 19	7.1E-03	1.4E-03	4.2E-04	9.8E-03	1.6E-02	4.7E-03	4.0E-02
SS A 20	7.8E-03	5.2E-05	3.1E-04	5.6E-03	1.0E-02	3.0E-03	2.7E-02
SS A 21	6.8E-03	5.7E-05	3.4E-04	3.5E-03	1.6E-02	3.5E-03	3.1E-02
SS A 22	1.0E-02	6.3E-05	3.7E-04	3.2E-03	1.6E-02	5.7E-03	3.5E-02
SS A 23	4.4E-03	5.5E-05	3.3E-04	4.5E-03	1.2E-02	3.8E-03	2.5E-02
SS A 24	4.1E-03	5.1E-05	3.0E-04	5.0E-03	2.0E-02	5.7E-03	3.5E-02
SS A 25	6.5E-03	1.3E-03	3.8E-04	6.5E-03	2.3E-02	6.3E-03	4.4E-02
SS B 12	2.6E-02	7.5E-05	4.4E-04	2.3E-03	2.4E-02	6.0E-03	5.9E-02
SS B 13	2.9E-02	7.5E-05	4.4E-04	1.4E-03	2.5E-02	7.1E-03	6.3E-02
SS B 14	1.3E-02	6.3E-05	3.7E-04	1.7E-03	1.8E-02	5.4E-03	3.8E-02
SS B 15	6.9E-03	6.3E-05	3.7E-04	3.4E-03	1.8E-02	6.8E-03	3.6E-02
SS B 16	7.5E-03	7.5E-05	4.4E-04	5.0E-03	1.6E-02	5.1E-03	3.4E-02
SS B 17	3.3E-03	6.7E-05	3.9E-04	5.8E-03	2.2E-02	5.3E-03	3.7E-02
SS B 18	8.3E-03	6.9E-05	4.1E-04	1.5E-02	1.7E-02	5.5E-03	4.6E-02
SS B 19	1.1E-02	7.5E-05	4.4E-04	1.2E-02	2.1E-02	6.0E-03	5.0E-02
SS B 20	5.6E-03	5.6E-05	3.3E-04	7.8E-03	1.3E-02	5.0E-03	3.2E-02
SS B 21	6.8E-03	5.7E-05	3.3E-04	4.0E-03	1.6E-02	3.7E-03	3.1E-02
SS B 22	8.3E-03	5.5E-05	3.2E-04	8.0E-03	1.2E-02	4.4E-03	3.3E-02
SS B 23	9.0E-03	7.5E-05	4.4E-04	7.4E-03	2.1E-02	5.4E-03	4.3E-02
SS B 24	6.8E-03	7.5E-05	4.4E-04	4.9E-03	1.6E-02	5.5E-03	3.4E-02
SS B 25	6.1E-03	5.5E-05	3.3E-04	3.7E-03	1.4E-02	3.6E-03	2.7E-02
SS C 11	7.5E-03	1.5E-03	4.4E-04	2.4E-03	2.7E-02	5.1E-03	4.3E-02
SS C 12	1.5E-02	7.5E-05	4.4E-04	2.2E-03	2.2E-02	6.0E-03	4.6E-02
SS C 13	9.8E-03	1.4E-03	4.1E-04	2.8E-03	2.0E-02	5.6E-03	3.9E-02
SS C 14	4.7E-03	5.9E-05	3.5E-04	3.2E-03	1.7E-02	7.8E-03	3.3E-02
SS C 15	1.1E-02	5.9E-05	3.5E-04	6.3E-03	1.7E-02	6.5E-03	4.2E-02
SS C 16	7.4E-03	6.2E-05	3.6E-04	2.5E-03	1.8E-02	6.2E-03	3.4E-02
SS C 17	8.6E-03	6.6E-05	3.9E-04	7.4E-03	1.9E-02	5.7E-03	4.1E-02
SS C 18	1.1E-02	7.2E-05	4.2E-04	8.3E-03	2.4E-02	6.2E-03	5.0E-02
SS C 19	8.9E-03	7.4E-05	4.3E-04	1.5E-02	2.2E-02	5.5E-03	5.2E-02
SS C 20	4.9E-03	6.1E-05	3.6E-04	7.9E-03	2.1E-02	6.2E-03	4.1E-02
SS C 21	1.7E-02	6.4E-05	3.7E-04	5.8E-03	1.6E-02	5.6E-03	4.5E-02
SS C 22	9.8E-03	1.0E-03	3.0E-04	3.1E-03	1.4E-02	4.0E-03	3.2E-02
SS C 23	2.3E-03	5.8E-05	3.4E-04	1.4E-03	5.3E-03	1.6E-03	1.1E-02
SS C 24	2.6E-03	6.5E-05	3.8E-04	3.1E-03	1.4E-02	5.0E-03	2.5E-02
SS C 25	6.6E-03	7.3E-05	4.3E-04	1.8E-03	1.7E-02	6.0E-03	3.2E-02
SS D 10	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.4E-02	6.3E-03	4.4E-02
SS D 11	2.4E-02	7.5E-05	4.4E-04	1.6E-03	2.2E-02	4.7E-03	5.3E-02
SS D 12	8.4E-03	6.5E-05	3.8E-04	2.9E-03	1.7E-02	4.8E-03	3.3E-02
SS D 13	7.8E-03	5.2E-05	3.1E-04	2.9E-03	1.4E-02	3.8E-03	2.9E-02
SS D 14	7.3E-03	6.6E-05	3.9E-04	7.7E-03	2.0E-02	5.8E-03	4.1E-02
SS D 15	6.0E-03	6.0E-05	3.5E-04	2.4E-03	2.0E-02	5.2E-03	3.4E-02
SS D 16	1.4E-02	7.5E-05	4.4E-04	4.5E-03	2.2E-02	5.9E-03	4.6E-02
SS D 17	4.6E-03	5.8E-05	3.4E-04	8.1E-03	1.5E-02	6.1E-03	3.5E-02
SS D 18	8.3E-03	6.4E-05	3.7E-04	8.8E-03	1.6E-02	4.7E-03	3.8E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(2)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS D 19	7.2E-03	6.5E-05	3.9E-04	8.2E-03	2.2E-02	6.2E-03	4.4E-02
SS D 20	6.3E-03	7.0E-05	4.1E-04	4.4E-03	1.4E-02	5.1E-03	3.1E-02
SS D 21	7.6E-03	6.9E-05	4.0E-04	4.6E-03	1.3E-02	4.5E-03	3.0E-02
SS D 22	9.6E-03	7.4E-05	4.3E-04	1.6E-03	1.6E-02	6.0E-03	3.4E-02
SS D 23	2.3E-02	7.5E-05	4.4E-04	2.3E-03	2.3E-02	4.7E-03	5.3E-02
SS D 24	4.1E-02	7.5E-05	4.4E-04	2.6E-03	3.0E-02	4.9E-03	7.9E-02
SS D 25	3.2E-02	7.5E-05	4.4E-04	1.8E-03	2.5E-02	5.6E-03	6.4E-02
SS E 9	6.7E-03	7.4E-05	4.4E-04	4.2E-03	1.7E-02	6.2E-03	3.5E-02
SS E 10	2.6E-02	7.5E-05	4.4E-04	1.0E-03	3.5E-02	3.1E-03	6.5E-02
SS E 11	6.7E-03	6.7E-05	3.9E-04	4.2E-03	3.0E-02	6.2E-03	4.8E-02
SS E 12	1.1E-02	5.6E-05	3.3E-04	8.9E-03	1.4E-02	4.1E-03	3.8E-02
SS E 13	2.9E-02	5.7E-05	3.3E-04	1.5E-03	2.4E-02	4.4E-03	6.0E-02
SS E 14	1.0E-02	5.5E-05	3.2E-04	1.1E-02	1.5E-02	4.6E-03	4.1E-02
SS E 15	4.3E-03	5.4E-05	3.2E-04	8.7E-03	1.2E-02	4.7E-03	3.0E-02
SS E 16	4.0E-03	5.0E-05	2.9E-04	6.3E-03	6.6E-03	3.0E-03	2.0E-02
SS E 17	5.1E-03	5.6E-05	3.3E-04	6.8E-03	1.0E-02	3.1E-03	2.6E-02
SS E 18	1.0E-02	8.0E-05	4.7E-04	1.3E-02	2.5E-02	6.6E-03	5.5E-02
SS E 19	1.8E-02	8.1E-05	4.8E-04	9.8E-03	2.0E-02	8.3E-03	5.7E-02
SS E 20	8.7E-03	7.2E-05	4.2E-04	3.6E-03	1.9E-02	6.8E-03	3.8E-02
SS E 21	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.0E-02	5.6E-03	3.8E-02
SS E 22	1.7E-02	7.5E-05	4.4E-04	2.3E-03	2.6E-02	6.1E-03	5.2E-02
SS E 23	3.5E-02	7.5E-05	4.4E-04	2.1E-03	3.3E-02	6.5E-03	7.6E-02
SS E 24	9.9E-02	7.5E-05	4.4E-04	1.5E-03	3.4E-02	5.6E-03	1.4E-01
SS E 25	1.8E-02	7.5E-05	4.4E-04	1.9E-03	2.0E-02	7.8E-03	4.8E-02
SS F 9	1.9E-02	7.5E-05	4.4E-04	5.1E-03	2.2E-02	5.1E-03	5.2E-02
SS F 10	9.5E-03	7.3E-05	4.3E-04	5.5E-03	1.5E-02	5.1E-03	3.5E-02
SS F 11	6.5E-03	5.9E-05	3.5E-04	1.1E-02	1.2E-02	4.6E-03	3.5E-02
SS F 12	8.8E-03	6.3E-05	3.7E-04	1.3E-02	1.7E-02	5.2E-03	4.4E-02
SS F 13	9.1E-03	7.0E-05	4.1E-04	1.2E-02	1.8E-02	5.1E-03	4.5E-02
SS F 14	4.0E-03	5.0E-05	2.9E-04	7.1E-03	8.3E-03	3.2E-03	2.3E-02
SS F 15	6.2E-03	5.1E-05	3.0E-04	8.4E-03	1.1E-02	3.8E-03	3.0E-02
SS F 16	4.9E-03	5.5E-05	3.2E-04	7.9E-03	8.8E-03	3.3E-03	2.5E-02
SS F 17	5.8E-03	6.5E-05	3.8E-04	1.1E-02	2.3E-02	4.9E-03	4.6E-02
SS F 18	1.1E-02	6.7E-05	3.9E-04	1.4E-02	1.7E-02	5.5E-03	4.8E-02
SS F 19	1.0E-02	6.7E-05	3.9E-04	1.9E-03	1.9E-02	5.3E-03	3.7E-02
SS F 20	1.3E-02	7.5E-05	4.4E-04	1.6E-03	2.4E-02	8.5E-03	4.7E-02
SS F 21	3.6E-02	7.5E-05	4.4E-04	2.3E-03	2.5E-02	6.3E-03	7.0E-02
SS F 22	1.6E-01	7.5E-05	4.4E-04	2.4E-03	4.8E-02	4.9E-03	2.2E-01
SS F 23	1.5E-02	7.5E-05	4.4E-04	2.0E-03	2.3E-02	9.6E-03	5.0E-02
SS F 24	9.8E-03	7.5E-05	4.4E-04	2.9E-03	1.8E-02	6.0E-03	3.7E-02
SS F 25	1.4E-02	7.5E-05	4.4E-04	3.4E-03	2.0E-02	5.6E-03	4.3E-02
SS G 9	1.7E-02	7.5E-05	4.4E-04	2.4E-03	2.9E-02	6.0E-03	5.5E-02
SS G 10	1.0E-02	7.4E-05	4.4E-04	9.3E-03	1.6E-02	5.3E-03	4.2E-02
SS G 11	1.1E-02	6.2E-05	3.6E-04	1.4E-02	1.5E-02	5.0E-03	4.5E-02
SS G 12	6.8E-03	6.8E-05	4.0E-04	1.2E-02	1.7E-02	4.8E-03	4.1E-02
SS G 13	6.7E-03	6.7E-05	4.0E-04	1.3E-02	1.1E-02	7.2E-03	3.8E-02
SS G 14	6.6E-03	5.5E-05	3.2E-04	6.4E-03	1.3E-02	4.1E-03	3.0E-02
SS G 15	5.5E-03	5.5E-05	3.2E-04	9.6E-03	1.4E-02	3.9E-03	3.3E-02
SS G 16	7.2E-03	6.5E-05	3.8E-04	1.0E-02	1.4E-02	4.2E-03	3.6E-02
SS G 17	8.0E-03	7.2E-05	4.3E-04	9.9E-03	1.5E-02	4.7E-03	3.8E-02
SS G 18	2.7E-02	8.7E-05	5.1E-04	3.9E-03	2.2E-02	7.5E-03	6.1E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(3)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS G 19	3.8E-02	7.4E-05	4.3E-04	2.0E-03	2.9E-02	7.3E-03	7.7E-02
SS G 20	4.9E-02	7.5E-05	4.4E-04	1.6E-03	3.5E-02	6.0E-03	9.2E-02
SS G 21	6.9E-02	7.5E-05	4.4E-04	2.3E-03	3.1E-02	7.0E-03	1.1E-01
SS G 22	1.2E-02	7.5E-05	4.4E-04	1.8E-03	2.0E-02	6.5E-03	4.1E-02
SS G 23	3.0E-03	7.5E-05	4.4E-04	1.3E-03	1.8E-02	8.0E-03	3.0E-02
SS G 24	6.8E-03	7.5E-05	4.4E-04	1.5E-03	2.2E-02	6.6E-03	3.8E-02
SS G 25	8.3E-03	7.5E-05	4.4E-04	1.5E-03	1.9E-02	7.4E-03	3.7E-02
SS G 26	1.3E-02	7.5E-05	4.4E-04	3.1E-03	2.1E-02	5.9E-03	4.3E-02
SS G 27	2.2E-02	7.5E-05	4.4E-04	2.5E-03	1.9E-02	5.9E-03	5.0E-02
SS G 28	1.6E-02	1.1E-03	3.1E-04	4.4E-03	1.5E-02	3.8E-03	4.2E-02
SS G 29	1.6E-02	1.0E-03	2.9E-04	4.7E-03	1.5E-02	3.5E-03	4.0E-02
SS G 30	1.2E-02	1.0E-03	2.9E-04	5.2E-03	1.5E-02	4.1E-03	3.7E-02
SS G 31	1.9E-02	1.2E-03	3.5E-04	3.3E-03	2.0E-02	3.9E-03	4.8E-02
SS G 32	2.5E-02	6.5E-05	3.8E-04	1.7E-03	3.4E-02	5.5E-03	6.6E-02
SS G 33	2.4E-02	1.5E-03	4.4E-04	1.9E-03	2.9E-02	5.6E-03	6.2E-02
SS G 34	2.0E-02	7.5E-05	4.4E-04	2.1E-03	4.6E-02	4.5E-03	7.3E-02
SS G 35	1.5E-02	7.5E-05	4.4E-04	2.4E-03	4.6E-02	3.4E-03	6.8E-02
SS G 36	2.4E-02	7.5E-05	4.4E-04	2.5E-03	4.1E-02	4.8E-03	7.3E-02
SS H 9	6.8E-03	7.5E-05	4.4E-04	2.8E-03	2.3E-02	5.4E-03	3.9E-02
SS H 10	1.2E-02	6.6E-05	3.9E-04	1.1E-02	1.7E-02	5.2E-03	4.5E-02
SS H 11	4.7E-03	5.8E-05	3.4E-04	1.3E-02	1.3E-02	4.0E-03	3.5E-02
SS H 12	5.4E-03	6.0E-05	3.5E-04	1.2E-02	1.2E-02	4.3E-03	3.4E-02
SS H 13	6.1E-03	5.5E-05	3.3E-04	1.1E-02	1.2E-02	4.5E-03	3.4E-02
SS H 14	6.1E-03	5.5E-05	3.3E-04	7.7E-03	1.0E-02	3.7E-03	2.8E-02
SS H 15	9.6E-03	5.6E-05	3.3E-04	1.3E-02	1.5E-02	4.5E-03	4.3E-02
SS H 16	8.3E-03	6.9E-05	4.1E-04	3.4E-03	1.7E-02	5.6E-03	3.5E-02
SS H 17	9.2E-03	6.6E-05	3.9E-04	2.2E-03	1.9E-02	5.9E-03	3.6E-02
SS H 18	8.9E-03	8.1E-05	4.7E-04	1.9E-03	2.4E-02	7.0E-03	4.2E-02
SS H 19	7.5E-03	7.5E-05	4.4E-04	1.8E-03	2.2E-02	1.0E-02	4.2E-02
SS H 20	3.8E-02	7.5E-05	4.4E-04	1.9E-03	2.9E-02	5.9E-03	7.6E-02
SS H 21	1.4E-02	7.5E-05	4.4E-04	1.9E-03	2.4E-02	8.2E-03	4.9E-02
SS H 22	1.3E-02	7.5E-05	4.4E-04	3.4E-03	2.2E-02	8.4E-03	4.7E-02
SS H 23	1.1E-02	7.5E-05	4.4E-04	1.7E-02	1.7E-02	5.9E-03	5.1E-02
SS H 24	6.2E-03	7.8E-05	4.6E-04	9.1E-04	2.7E-02	7.1E-03	4.2E-02
SS H 25	6.1E-03	1.0E-04	6.0E-04	1.7E-03	3.3E-02	1.4E-02	5.6E-02
SS H 26	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.2E-02	6.1E-03	4.2E-02
SS H 27	8.5E-03	7.1E-05	4.2E-04	2.5E-03	2.1E-02	5.1E-03	3.7E-02
SS H 28	1.6E-02	1.0E-03	2.9E-04	4.1E-03	1.5E-02	3.0E-03	3.9E-02
SS H 29	1.8E-02	5.0E-05	2.9E-04	3.3E-03	1.5E-02	2.9E-03	3.9E-02
SS H 30	1.6E-02	1.1E-03	3.1E-04	3.3E-03	1.5E-02	3.8E-03	4.0E-02
SS H 31	2.7E-02	1.4E-03	4.0E-04	1.8E-03	2.8E-02	5.4E-03	6.4E-02
SS H 32	1.9E-02	7.5E-05	4.4E-04	1.5E-03	2.7E-02	1.1E-02	6.0E-02
SS H 33	1.2E-02	1.5E-03	4.4E-04	1.9E-03	2.5E-02	6.9E-03	4.8E-02
SS H 34	3.7E-02	7.3E-05	4.3E-04	2.0E-03	3.6E-02	6.2E-03	8.2E-02
SS H 35	2.0E-02	7.5E-05	4.4E-04	5.5E-03	2.6E-02	5.2E-03	5.6E-02
SS H 36	1.7E-02	7.3E-05	4.3E-04	1.3E-02	2.5E-02	5.8E-03	6.1E-02
SS I 8	2.1E-02	9.0E-05	5.3E-04	4.5E-03	3.6E-02	6.3E-03	6.8E-02
SS I 9	1.7E-02	6.9E-05	4.0E-04	7.2E-03	1.7E-02	5.0E-03	4.7E-02
SS I 10	6.9E-03	5.3E-05	3.1E-04	1.2E-02	1.3E-02	3.8E-03	3.6E-02
SS I 11	5.5E-03	5.5E-05	3.2E-04	1.0E-02	9.4E-03	4.1E-03	3.0E-02
SS I 12	7.2E-03	5.1E-05	3.0E-04	9.3E-03	1.2E-02	4.4E-03	3.3E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(4)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS I 13	6.4E-03	5.3E-05	3.1E-04	9.7E-03	1.0E-02	3.8E-03	3.0E-02
SS I 14	7.9E-03	6.6E-05	3.9E-04	6.3E-03	1.5E-02	5.1E-03	3.4E-02
SS I 15	5.8E-03	6.5E-05	3.8E-04	3.4E-03	2.1E-02	4.1E-03	3.5E-02
SS I 16	8.2E-03	1.5E-03	4.4E-04	2.6E-03	1.9E-02	6.4E-03	3.8E-02
SS I 17	6.8E-03	1.5E-03	4.4E-04	2.8E-03	2.3E-02	6.5E-03	4.1E-02
SS I 18	2.9E-03	7.3E-05	4.3E-04	2.1E-03	2.2E-02	6.9E-03	3.4E-02
SS I 19	8.5E-03	7.1E-05	4.2E-04	1.5E-03	1.9E-02	6.0E-03	3.5E-02
SS I 20	6.0E-03	7.5E-05	4.4E-04	2.6E-03	2.1E-02	1.1E-02	4.1E-02
SS I 21	4.5E-03	7.5E-05	4.4E-04	2.5E-03	2.4E-02	6.9E-03	3.8E-02
SS I 22	5.3E-03	7.5E-05	4.4E-04	1.0E-02	2.1E-02	6.4E-03	4.4E-02
SS I 23	4.5E-03	7.5E-05	4.4E-04	1.0E-03	2.1E-02	6.4E-03	3.3E-02
SS I 24	3.0E-03	7.4E-05	4.4E-04	7.4E-04	1.6E-02	5.2E-03	2.5E-02
SS I 25	6.1E-03	6.1E-05	3.6E-04	1.1E-03	1.6E-02	6.6E-03	3.0E-02
SS I 26	7.0E-03	6.4E-05	3.8E-04	1.8E-03	1.9E-02	5.9E-03	3.4E-02
SS I 27	1.7E-02	6.0E-05	3.5E-04	4.3E-03	1.7E-02	4.1E-03	4.3E-02
SS I 28	1.4E-02	5.3E-05	3.1E-04	4.8E-03	1.8E-02	3.8E-03	4.1E-02
SS I 29	1.2E-02	5.1E-05	3.0E-04	3.4E-03	2.3E-02	3.2E-03	4.3E-02
SS I 30	2.3E-02	6.9E-05	4.1E-04	2.9E-03	2.5E-02	5.9E-03	5.7E-02
SS I 31	1.3E-02	7.5E-05	4.4E-04	1.9E-03	5.2E-02	7.0E-03	7.4E-02
SS I 32	5.3E-03	1.5E-03	4.4E-04	2.0E-03	1.7E-02	2.3E-02	5.0E-02
SS I 33	1.8E-02	1.5E-03	4.4E-04	2.6E-03	3.3E-02	7.9E-03	6.3E-02
SS I 34	1.0E-02	7.5E-05	4.4E-04	2.4E-03	2.4E-02	5.2E-03	4.3E-02
SS I 35	8.1E-03	6.2E-05	3.7E-04	8.1E-03	2.0E-02	5.4E-03	4.2E-02
SS I 36	1.1E-02	6.3E-05	3.7E-04	1.1E-02	2.2E-02	4.6E-03	4.9E-02
SS J 7	4.4E-03	1.5E-03	4.4E-04	3.1E-03	2.5E-02	6.3E-03	4.0E-02
SS J 8	3.8E-03	6.3E-05	3.7E-04	4.1E-03	1.6E-02	5.0E-03	2.9E-02
SS J 9	7.7E-03	1.0E-03	3.0E-04	1.5E-02	1.2E-02	4.3E-03	4.0E-02
SS J 10	7.3E-03	1.3E-03	3.9E-04	1.2E-02	1.4E-02	4.7E-03	4.0E-02
SS J 11	8.1E-03	6.3E-05	3.7E-04	1.4E-02	1.4E-02	4.5E-03	4.2E-02
SS J 12	6.7E-03	5.1E-05	3.0E-04	1.0E-02	1.1E-02	3.8E-03	3.3E-02
SS J 13	9.3E-03	5.8E-05	3.4E-04	6.1E-03	1.3E-02	3.6E-03	3.2E-02
SS J 14	6.0E-03	7.5E-05	4.4E-04	2.0E-03	2.4E-02	4.9E-03	3.7E-02
SS J 15	5.3E-03	1.5E-03	4.4E-04	1.6E-03	2.1E-02	5.7E-03	3.5E-02
SS J 16	7.5E-03	7.5E-05	4.4E-04	2.0E-03	2.1E-02	5.2E-03	3.7E-02
SS J 17	3.0E-03	1.5E-03	4.4E-04	2.0E-03	1.8E-02	6.1E-03	3.1E-02
SS J 18	1.1E-03	7.4E-05	4.4E-04	1.4E-03	1.6E-02	4.7E-03	2.4E-02
SS J 19	8.9E-03	7.4E-05	4.4E-04	2.4E-03	2.2E-02	5.9E-03	4.0E-02
SS J 20	3.3E-03	6.6E-05	3.9E-04	1.5E-03	2.0E-02	5.6E-03	3.1E-02
SS J 21	7.4E-03	1.5E-03	4.3E-04	1.8E-03	2.1E-02	6.0E-03	3.9E-02
SS J 22	4.5E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.3E-03	2.9E-02
SS J 23	3.4E-03	6.9E-05	4.0E-04	1.3E-03	1.4E-02	4.3E-03	2.4E-02
SS J 24	4.1E-03	5.9E-05	3.5E-04	1.2E-03	1.4E-02	4.2E-03	2.4E-02
SS J 25	5.8E-03	1.1E-03	3.1E-04	1.3E-03	1.8E-02	4.1E-03	3.0E-02
SS J 26	9.8E-03	1.1E-03	3.2E-04	3.5E-03	1.6E-02	4.0E-03	3.5E-02
SS J 27	1.6E-02	5.0E-05	2.9E-04	3.0E-03	1.5E-02	2.7E-03	3.7E-02
SS J 28	8.0E-03	1.1E-03	3.1E-04	3.5E-03	2.2E-02	4.5E-03	3.9E-02
SS J 29	1.5E-02	1.6E-03	4.7E-04	2.9E-03	2.8E-02	7.2E-03	5.6E-02
SS J 30	1.1E-02	8.0E-05	4.7E-04	1.2E-03	3.4E-02	7.5E-03	5.5E-02
SS J 31	7.7E-02	7.5E-05	4.4E-04	1.5E-03	4.5E-01	5.3E-03	5.3E-01
SS J 32	1.2E-02	1.5E-03	4.4E-04	2.4E-03	3.2E-02	6.7E-03	5.5E-02
SS J 33	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.6E-02	7.0E-03	4.6E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(5)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS J 34	1.4E-02	7.5E-05	4.4E-04	1.4E-02	2.5E-02	5.7E-03	6.0E-02
SS J 35	1.5E-02	7.5E-05	4.4E-04	1.0E-02	2.7E-02	5.8E-03	5.8E-02
SS J 36	1.3E-02	1.6E-03	4.8E-04	1.3E-02	2.8E-02	6.9E-03	6.3E-02
SS K 06	5.8E-03	7.5E-05	4.4E-04	1.9E-03	1.4E-02	5.0E-03	2.8E-02
SS K 07	4.2E-03	6.6E-05	3.9E-04	1.6E-03	1.6E-02	3.9E-03	2.6E-02
SS K 08	7.6E-03	5.9E-05	3.5E-04	1.1E-02	1.1E-02	7.2E-03	3.8E-02
SS K 09	1.1E-03	5.1E-05	3.0E-04	1.1E-02	1.0E-02	5.6E-03	2.9E-02
SS K 10	1.7E-03	6.1E-05	3.6E-04	1.4E-02	1.2E-02	5.0E-03	3.3E-02
SS K 11	3.1E-03	5.1E-05	3.0E-04	1.2E-02	8.9E-03	4.1E-03	2.9E-02
SS K 12	3.0E-03	5.2E-05	3.1E-04	6.8E-03	1.2E-02	6.2E-03	2.8E-02
SS K 13	9.4E-03	6.9E-05	4.1E-04	1.1E-03	1.3E-02	5.4E-03	3.0E-02
SS K 14	4.6E-03	7.5E-05	4.4E-04	1.2E-03	1.5E-02	6.1E-03	2.8E-02
SS K 15	1.7E-03	7.5E-05	4.4E-04	1.3E-03	1.3E-02	6.2E-03	2.3E-02
SS K 16	3.8E-04	7.5E-05	4.4E-04	6.5E-03	3.8E-02	9.0E-03	5.4E-02
SS K 17	4.0E-03	7.5E-05	4.4E-04	1.3E-03	1.8E-02	6.4E-03	3.0E-02
SS K 18	1.7E-02	7.5E-05	4.4E-04	1.4E-03	2.3E-02	9.2E-03	5.1E-02
SS K 19	1.7E-03	6.4E-05	3.8E-04	1.3E-03	1.3E-02	4.7E-03	2.1E-02
SS K 20	1.2E-03	5.1E-05	3.0E-04	7.8E-04	9.6E-03	3.6E-03	1.6E-02
SS K 21	2.8E-03	6.0E-05	3.6E-04	4.3E-04	9.4E-03	3.7E-03	1.7E-02
SS K 22	2.2E-03	9.5E-05	5.6E-04	1.5E-03	2.7E-02	5.4E-03	3.6E-02
SS K 23	1.8E-03	5.0E-05	2.9E-04	6.8E-04	1.4E-02	3.7E-03	2.1E-02
SS K 24	3.6E-03	5.0E-05	2.9E-04	1.2E-03	1.2E-02	3.6E-03	2.1E-02
SS K 25	4.3E-03	5.4E-05	3.2E-04	1.8E-03	1.4E-02	3.8E-03	2.4E-02
SS K 26	1.0E-02	5.6E-05	3.3E-04	3.0E-03	1.4E-02	3.7E-03	3.1E-02
SS K 27	7.9E-03	5.0E-05	2.9E-04	2.4E-03	1.4E-02	3.4E-03	2.8E-02
SS K 28	1.3E-02	5.7E-05	3.3E-04	1.3E-03	1.5E-02	4.2E-03	3.4E-02
SS K 29	2.1E-02	8.8E-05	5.2E-04	1.2E-03	2.6E-02	7.1E-03	5.6E-02
SS K 30	1.2E-01	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.2E-03	1.5E-01
SS K 31	8.3E-03	7.5E-05	4.4E-04	5.9E-03	3.0E-02	6.0E-03	5.1E-02
SS K 32	9.4E-03	7.5E-05	4.4E-04	2.0E-03	1.7E-02	7.2E-03	3.7E-02
SS K 33	9.0E-03	7.5E-05	4.4E-04	1.2E-02	2.0E-02	5.0E-03	4.7E-02
SS K 34	8.9E-03	7.5E-05	4.4E-04	1.1E-02	4.0E-02	6.4E-03	6.7E-02
SS K 35	7.8E-03	8.3E-05	4.9E-04	1.8E-02	2.1E-02	8.8E-03	5.6E-02
SS K 36	1.0E-02	4.2E-03	7.8E-04	6.2E-03	1.3E-01	3.0E-02	1.9E-01
SS L 05	4.7E-03	7.5E-05	4.4E-04	3.0E-03	1.7E-02	5.3E-03	3.1E-02
SS L 06	3.6E-04	7.1E-05	4.2E-04	3.0E-03	1.6E-02	4.7E-03	2.5E-02
SS L 07	3.8E-03	5.0E-05	2.9E-04	2.6E-03	1.8E-02	4.3E-03	2.9E-02
SS L 08	3.2E-03	5.5E-05	3.2E-04	1.2E-02	1.1E-02	3.9E-03	3.0E-02
SS L 09	5.7E-03	5.0E-05	2.9E-04	1.1E-02	6.5E-03	4.0E-03	2.7E-02
SS L 10	2.5E-04	5.1E-05	3.0E-04	1.1E-02	9.4E-03	4.0E-03	2.5E-02
SS L 11	5.4E-03	5.3E-05	3.1E-04	5.9E-03	9.2E-03	3.8E-03	2.5E-02
SS L 12	3.9E-03	7.4E-05	4.4E-04	3.2E-03	1.8E-02	6.3E-03	3.2E-02
SS L 13	3.0E-03	7.5E-05	4.4E-04	1.7E-03	1.5E-02	5.6E-03	2.6E-02
SS L 14	1.2E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.4E-03	2.6E-02
SS L 15	9.0E-03	7.5E-05	4.4E-04	1.3E-03	1.7E-02	6.3E-03	3.4E-02
SS L 16	1.6E-03	7.5E-05	4.4E-04	9.0E-04	1.3E-02	4.7E-03	2.0E-02
SS L 17	5.7E-03	1.7E-03	4.0E-04	1.0E-03	1.6E-02	4.6E-03	3.0E-02
SS L 18	1.9E-03	5.0E-05	2.9E-04	1.0E-03	1.3E-02	3.7E-03	2.0E-02
SS L 19	2.5E-03	5.0E-05	2.9E-04	5.7E-04	1.1E-02	3.4E-03	1.8E-02
SS L 20	1.0E-03	5.1E-05	3.0E-04	7.4E-04	1.5E-02	4.4E-03	2.1E-02
SS L 21	2.9E-03	5.2E-05	3.1E-04	1.4E-03	5.2E-02	3.2E-03	5.9E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(6)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS L 22	4.0E-03	5.4E-05	3.2E-04	1.4E-03	1.4E-02	4.2E-03	2.4E-02
SS L 23	8.2E-03	7.5E-05	4.4E-04	1.2E-03	2.1E-02	5.0E-03	3.6E-02
SS L 24	3.7E-03	5.0E-05	3.0E-04	1.8E-03	1.4E-02	3.3E-03	2.3E-02
SS L 25	5.0E-03	5.4E-05	3.2E-04	2.3E-03	1.6E-02	3.6E-03	2.7E-02
SS L 26	1.2E-02	5.0E-05	3.0E-04	1.9E-03	1.8E-02	3.3E-03	3.6E-02
SS L 27	7.8E-03	5.9E-05	3.5E-04	1.8E-03	2.5E-02	4.9E-03	4.0E-02
SS L 28	8.4E-03	7.2E-05	4.2E-04	1.2E-03	2.3E-02	6.0E-03	3.9E-02
SS L 29	4.1E-02	6.8E-05	4.0E-04	6.9E-04	2.8E-01	3.1E-02	3.6E-01
SS L 30	5.2E-03	7.4E-05	4.4E-04	1.0E-03	2.1E-02	7.1E-03	3.4E-02
SS L 31	1.0E-02	7.5E-05	4.4E-04	6.7E-03	4.7E-02	6.1E-03	7.1E-02
SS L 32	3.4E-03	7.0E-05	4.1E-04	3.4E-03	2.5E-02	5.4E-03	3.8E-02
SS L 33	1.1E-02	7.4E-05	4.3E-04	3.1E-03	3.0E-02	5.5E-03	5.0E-02
SS L 34	8.2E-03	7.4E-05	4.3E-04	4.4E-03	2.7E-02	6.3E-03	4.6E-02
SS L 35	7.7E-03	9.4E-03	6.7E-04	3.6E-03	3.8E-01	5.2E-02	4.5E-01
SS L 36	4.3E-03	2.5E-03	6.5E-04	2.1E-03	6.8E-02	1.4E-02	9.1E-02
SS M 04	5.7E-03	7.5E-05	4.4E-04	1.1E-03	1.8E-02	4.9E-03	3.0E-02
SS M 05	4.0E-03	7.1E-05	4.2E-04	1.7E-03	1.8E-02	5.2E-03	2.9E-02
SS M 06	9.6E-03	6.5E-05	3.8E-04	1.6E-03	1.9E-02	6.0E-03	3.7E-02
SS M 07	3.1E-03	5.5E-05	3.2E-04	1.8E-03	1.7E-02	4.8E-03	2.7E-02
SS M 08	3.8E-03	5.2E-05	3.1E-04	1.4E-02	9.4E-03	4.1E-03	3.2E-02
SS M 09	3.1E-03	5.3E-05	3.1E-04	1.5E-02	9.0E-03	4.5E-03	3.2E-02
SS M 10	8.0E-03	5.1E-05	3.0E-04	6.5E-03	1.0E-02	3.7E-03	2.9E-02
SS M 11	2.1E-03	5.5E-05	3.2E-04	1.1E-03	1.1E-02	4.6E-03	1.9E-02
SS M 12	9.8E-03	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.6E-03	3.6E-02
SS M 13	3.0E-03	7.5E-05	4.4E-04	2.8E-03	1.8E-02	6.6E-03	3.1E-02
SS M 14	2.2E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	6.7E-03	3.1E-02
SS M 15	3.1E-03	7.5E-05	4.4E-04	1.2E-03	1.8E-02	6.4E-03	2.9E-02
SS M 16	4.2E-03	7.0E-05	4.1E-04	1.9E-03	1.3E-02	5.6E-03	2.5E-02
SS M 17	2.0E-03	5.0E-05	2.9E-04	7.0E-04	9.8E-03	3.8E-03	1.7E-02
SS M 18	3.1E-03	5.1E-05	3.0E-04	8.9E-04	1.2E-02	4.4E-03	2.1E-02
SS M 19	2.3E-03	5.0E-05	3.0E-04	8.6E-04	9.6E-03	3.6E-03	1.7E-02
SS M 20	5.4E-03	5.0E-05	2.9E-04	7.8E-04	1.0E-02	3.3E-03	2.0E-02
SS M 21	6.2E-03	5.2E-05	3.0E-04	1.0E-03	1.3E-02	4.5E-03	2.6E-02
SS M 22	5.6E-03	5.6E-05	3.3E-04	1.5E-03	1.8E-02	4.4E-03	3.0E-02
SS M 23	9.2E-03	5.0E-05	3.0E-04	1.4E-03	1.1E-02	3.1E-03	2.5E-02
SS M 24	5.5E-03	5.0E-05	2.9E-04	2.1E-03	1.3E-02	3.3E-03	2.4E-02
SS M 25	1.7E-02	5.7E-05	3.3E-04	1.1E-03	3.1E-02	8.0E-03	5.8E-02
SS M 26	1.5E-02	7.0E-05	4.1E-04	1.2E-03	1.6E-02	4.9E-03	3.8E-02
SS M 27	1.3E-02	7.3E-05	4.3E-04	1.9E-03	2.3E-02	1.1E-02	4.9E-02
SS M 28	4.2E-02	7.4E-05	4.3E-04	8.0E-04	2.1E-01	1.6E-02	2.7E-01
SS M 29	1.8E-02	4.5E-03	3.8E-04	1.4E-03	2.5E-01	4.6E-02	3.2E-01
SS M 30	2.0E-03	7.1E-05	4.2E-04	1.0E-03	1.9E-02	6.7E-03	2.9E-02
SS M 31	1.8E-02	7.5E-05	4.4E-04	3.9E-03	5.2E-02	5.7E-03	8.0E-02
SS M 32	1.7E-02	7.4E-05	4.3E-04	3.5E-03	7.5E-02	8.9E-03	1.1E-01
SS M 33	1.8E-02	3.5E-03	4.7E-04	2.8E-03	2.1E-01	4.5E-02	2.8E-01
SS M 34	1.4E-01	6.7E-02	6.9E-04	3.7E-03	3.6E+00	6.9E-01	4.5E+00
SS M 35	4.3E-02	1.3E-01	8.4E-04	3.3E-03	1.7E+01	1.4E+00	1.9E+01
SS M 36	1.0E-03	1.0E-04	5.9E-04	9.7E-04	6.2E-02	1.4E-02	7.8E-02
SS N 03	1.8E-02	7.5E-05	4.4E-04	1.6E-03	2.5E-02	5.0E-03	4.9E-02
SS N 04	4.6E-02	7.4E-05	4.3E-04	6.9E-04	3.0E-02	5.1E-03	8.2E-02
SS N 05	2.5E-03	8.8E-05	5.2E-04	2.7E-03	2.6E-02	1.2E-02	4.4E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(7)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS N 06	1.1E-03	5.6E-05	3.3E-04	2.3E-03	1.7E-02	4.5E-03	2.5E-02
SS N 07	5.4E-03	5.7E-05	3.4E-04	7.3E-03	1.2E-02	4.0E-03	2.9E-02
SS N 08	5.4E-03	5.2E-05	3.0E-04	1.3E-02	1.1E-02	4.2E-03	3.4E-02
SS N 09	4.0E-03	5.0E-05	2.9E-04	9.9E-03	1.6E-02	3.5E-03	3.3E-02
SS N 10	2.8E-03	5.0E-05	2.9E-04	2.9E-03	1.2E-02	3.5E-03	2.1E-02
SS N 11	1.2E-03	5.5E-05	3.2E-04	7.4E-04	1.5E-02	5.2E-03	2.3E-02
SS N 12	2.6E-03	7.5E-05	4.4E-04	5.9E-04	2.2E-02	6.6E-03	3.2E-02
SS N 13	3.4E-03	7.5E-05	4.4E-04	7.0E-04	2.5E-02	5.5E-03	3.5E-02
SS N 14	1.1E-03	7.5E-05	4.4E-04	1.1E-03	1.7E-02	6.4E-03	2.7E-02
SS N 15	2.9E-03	7.5E-05	4.4E-04	1.5E-03	1.4E-02	6.1E-03	2.5E-02
SS N 16	3.2E-03	6.7E-05	3.9E-04	7.2E-04	1.6E-02	5.4E-03	2.6E-02
SS N 17	6.9E-03	5.4E-05	3.1E-04	6.1E-04	2.0E-02	5.9E-03	3.4E-02
SS N 18	2.8E-03	5.1E-05	3.0E-04	9.3E-04	1.6E-02	6.1E-03	2.6E-02
SS N 19	3.2E-03	5.0E-05	2.9E-04	6.8E-04	1.6E-02	4.1E-03	2.4E-02
SS N 20	1.6E-02	5.2E-05	3.0E-04	5.6E-04	2.0E-02	4.5E-03	4.1E-02
SS N 21	7.3E-03	5.5E-05	3.2E-04	2.3E-03	2.2E-02	6.0E-03	3.9E-02
SS N 22	6.2E-03	5.3E-05	3.1E-04	1.7E-03	2.6E-02	6.4E-03	4.1E-02
SS N 23	8.6E-03	3.1E-03	3.5E-04	3.3E-03	9.2E-02	2.0E-02	1.3E-01
SS N 24	4.1E-02	9.3E-03	4.2E-04	1.8E-03	7.0E-01	9.6E-02	8.5E-01
SS N 25	1.4E-02	7.5E-06	4.4E-05	1.8E-04	7.9E-02	4.2E-03	9.7E-02
SS N 26	6.0E-02	1.9E-03	2.2E-05	6.0E-04	3.0E-02	2.0E-02	1.1E-01
SS N 27	1.0E-02	2.0E-04	2.0E-05	1.4E-04	1.0E-01	6.0E-02	1.7E-01
SS N 28	1.0E-02	2.0E-03	4.2E-04	7.0E-05	1.0E-01	2.0E-02	1.3E-01
SS N 29	1.1E-02	6.5E-05	3.0E-05	1.0E-04	1.0E-01	1.0E-02	1.2E-01
SS N 30	2.1E-02	1.6E-03	4.4E-05	3.4E-04	1.0E-01	2.5E-02	1.5E-01
SS N 31	2.5E-02	3.0E-03	4.4E-05	1.1E-04	1.0E-01	3.7E-02	1.6E-01
SS N 32	1.0E-02	9.6E-04	4.5E-05	1.2E-04	1.0E-01	2.3E-02	1.3E-01
SS N 33	1.1E-02	2.9E-03	6.2E-05	2.1E-04	1.3E-01	3.0E-02	1.7E-01
SS N 34	1.0E-02	5.4E-03	8.8E-04	5.2E-03	5.9E-01	7.2E-02	6.9E-01
SS N 35	5.8E-02	3.0E-02	8.7E-04	2.6E-03	2.6E+00	3.5E-01	3.0E+00
SS N 36	4.5E-03	1.2E-04	6.9E-04	2.9E-04	1.6E-01	2.2E-02	1.9E-01
SS O 02	2.1E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	5.6E-03	7.5E-02
SS O 03	2.5E-02	7.5E-05	4.4E-04	7.5E-04	4.7E-02	7.8E-03	8.1E-02
SS O 04	5.8E-03	6.8E-05	4.0E-04	1.6E-03	2.2E-02	5.3E-03	3.6E-02
SS O 05	5.2E-03	5.7E-05	3.4E-04	2.3E-03	2.0E-02	5.0E-03	3.3E-02
SS O 06	1.9E-03	5.5E-05	3.3E-04	3.2E-03	1.7E-02	3.9E-03	2.6E-02
SS O 07	8.2E-03	5.3E-05	3.1E-04	4.0E-03	2.1E-02	2.7E-03	3.7E-02
SS O 08	7.5E-03	5.2E-05	3.0E-04	1.1E-02	1.4E-02	4.4E-03	3.8E-02
SS O 09	1.9E-02	6.8E-05	4.0E-04	8.3E-03	1.8E-02	5.6E-03	5.1E-02
SS O 10	5.3E-03	6.3E-05	3.7E-04	8.9E-03	1.8E-02	6.4E-03	3.9E-02
SS O 11	2.2E-03	1.1E-04	6.3E-04	4.2E-03	8.6E-02	3.0E-02	1.2E-01
SS O 12	1.1E-03	8.2E-05	4.8E-04	2.5E-03	2.4E-02	1.2E-02	4.0E-02
SS O 13	2.3E-03	7.5E-05	4.4E-04	1.9E-03	2.6E-02	7.3E-03	3.8E-02
SS O 14	1.5E-03	7.5E-05	4.4E-04	1.4E-03	2.3E-02	7.4E-03	3.4E-02
SS O 15	3.7E-03	7.5E-05	4.4E-04	1.4E-03	3.9E-02	8.1E-03	5.2E-02
SS O 16	5.8E-03	6.7E-05	3.9E-04	1.5E-03	3.2E-02	5.6E-03	4.5E-02
SS O 17	5.0E-03	6.7E-05	4.0E-04	1.5E-03	3.1E-02	5.7E-03	4.3E-02
SS O 18	9.1E-03	6.0E-05	3.5E-04	1.5E-03	3.3E-02	5.6E-03	5.0E-02
SS O 19	1.6E-02	6.0E-05	3.5E-04	1.8E-03	5.0E-02	7.1E-03	7.5E-02
SS O 20	1.0E-02	5.3E-05	3.1E-04	1.9E-03	2.4E-02	5.0E-03	4.2E-02
SS O 21	4.9E-03	5.7E-05	3.4E-04	9.1E-04	3.3E-02	7.4E-03	4.6E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(8)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS O 22	2.3E-02	5.6E-05	3.3E-04	2.1E-03	3.0E-02	5.6E-03	6.1E-02
SS O 23	4.8E-02	6.1E-05	3.6E-04	9.3E-04	2.0E-02	6.0E-03	7.6E-02
SS O 24	5.2E-02	6.6E-05	3.9E-04	1.9E-03	2.8E-02	6.0E-03	8.9E-02
SS O 25	6.0E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	8.0E-03	1.2E-01
SS O 26	2.0E-01	7.5E-05	4.4E-04	1.8E-03	5.9E-02	6.8E-03	2.7E-01
SS O 27	1.4E-01	7.5E-05	4.4E-04	1.2E-03	1.8E-01	1.0E-02	3.3E-01
SS O 28	1.4E-01	7.5E-05	4.4E-04	1.2E-03	1.8E-01	1.0E-02	3.3E-01
SS O 29	1.4E-01	7.5E-05	4.4E-04	1.2E-03	1.8E-01	1.0E-02	3.3E-01
SS O 30	3.8E-02	1.9E-03	5.1E-05	1.5E-04	1.0E-01	2.1E-02	1.6E-01
SS O 31	1.0E-02	2.6E-03	5.5E-04	2.3E-03	8.7E-02	1.6E-02	1.2E-01
SS O 32	2.6E-02	1.4E-04	8.1E-04	2.7E-03	8.0E-02	1.6E-02	1.3E-01
SS O 33	5.3E-02	1.5E-04	8.7E-04	4.8E-03	1.2E-01	2.5E-02	2.1E-01
SS O 34	2.2E-02	1.4E-04	8.0E-04	3.3E-03	5.2E-01	3.9E-02	5.9E-01
SS O 35	2.3E-02	1.1E-04	6.5E-04	1.0E-03	5.5E-02	1.5E-02	9.5E-02
SS O 36	6.6E-03	9.6E-05	5.7E-04	4.3E-04	4.1E-02	1.2E-02	6.1E-02
SS P 01	5.7E-03	3.0E-04	4.4E-04	3.1E-03	2.3E-02	7.1E-03	4.0E-02
SS P 02	9.2E-03	7.5E-04	4.4E-04	8.7E-04	2.5E-02	6.9E-03	4.3E-02
SS P 03	2.5E-03	4.9E-04	3.6E-04	1.4E-03	1.6E-02	6.2E-03	2.7E-02
SS P 04	8.5E-03	2.4E-04	3.5E-04	2.6E-03	1.5E-02	4.7E-03	3.1E-02
SS P 05	3.6E-03	1.1E-04	3.2E-04	3.1E-03	1.3E-02	4.3E-03	2.4E-02
SS P 06	5.3E-03	2.1E-04	3.1E-04	5.0E-03	1.4E-02	5.1E-03	3.0E-02
SS P 07	4.4E-03	8.0E-04	2.9E-04	2.9E-03	1.6E-02	4.9E-03	3.0E-02
SS P 08	1.2E-02	3.4E-04	3.3E-04	3.7E-03	1.5E-02	4.8E-03	3.6E-02
SS P 09	1.3E-03	3.6E-04	3.5E-04	4.6E-04	1.5E-02	6.4E-03	2.4E-02
SS P 10	2.8E-03	1.6E-03	4.3E-04	1.8E-03	1.9E-02	8.3E-03	3.4E-02
SS P 11	2.1E-03	3.0E-04	4.4E-04	7.5E-04	1.4E-02	8.3E-03	2.6E-02
SS P 12	1.7E-03	6.0E-04	4.4E-04	1.2E-03	1.9E-02	7.6E-03	3.0E-02
SS P 13	3.3E-03	7.5E-04	4.4E-04	1.8E-03	2.0E-02	6.8E-03	3.3E-02
SS P 14	2.6E-02	1.5E-04	4.4E-04	1.9E-03	6.5E-02	8.8E-03	1.0E-01
SS P 15	5.5E-03	4.4E-04	4.3E-04	1.3E-03	2.5E-02	6.5E-03	3.9E-02
SS P 16	4.6E-03	1.3E-04	3.8E-04	1.0E-03	2.1E-02	5.7E-03	3.3E-02
SS P 17	2.0E-02	0.0E+00	3.8E-04	2.6E-03	4.5E-02	6.9E-03	7.4E-02
SS P 18	1.4E-02	1.1E-04	3.4E-04	2.9E-03	3.5E-02	6.6E-03	5.9E-02
SS P 19	1.6E-02	1.2E-04	3.7E-04	1.4E-03	4.1E-02	6.7E-03	6.5E-02
SS P 20	8.3E-03	3.8E-04	3.7E-04	8.4E-04	1.8E-02	6.4E-03	3.5E-02
SS P 21	1.2E-01	8.5E-03	4.1E-04	1.1E-03	1.5E+00	1.3E-01	1.7E+00
SS P 22	1.1E-02	1.7E-03	3.3E-04	9.5E-04	3.2E-02	6.9E-03	5.2E-02
SS P 23	1.8E-02	0.0E+00	3.7E-04	2.2E-03	2.3E-02	7.2E-03	5.1E-02
SS P 24	1.3E-02	5.5E-04	4.0E-04	1.8E-03	2.1E-02	6.9E-03	4.4E-02
SS P 25	3.5E-02	1.4E-04	4.1E-04	1.4E-03	3.2E-02	7.0E-03	7.5E-02
SS P 26	7.5E-02	5.1E-04	3.8E-04	2.5E-03	3.3E-02	7.1E-03	1.2E-01
SS P 27	4.6E-02	1.1E-04	3.2E-04	1.5E-03	5.2E-02	6.2E-03	1.1E-01
SS P 28	3.6E-02	1.0E-04	5.9E-04	7.6E-04	5.0E-01	1.7E-02	5.6E-01
SS P 29	3.2E-02	1.2E-04	7.1E-04	3.0E-03	1.0E+00	2.9E-02	1.1E+00
SS P 30	4.6E-02	1.2E-04	7.0E-04	5.0E-03	1.2E-01	1.5E-02	1.8E-01
SS P 31	5.2E-02	1.4E-04	8.3E-04	4.5E-03	8.2E-02	1.3E-02	1.5E-01
SS P 32	1.6E-01	1.5E-04	8.6E-04	4.4E-03	1.1E-01	1.4E-02	2.8E-01
SS P 33	1.3E-02	1.2E-04	7.1E-04	2.3E-03	1.2E-01	2.4E-02	1.6E-01
SS P 34	4.2E-05	8.3E-05	4.9E-04	3.7E-04	2.8E-02	8.0E-03	3.7E-02
SS P 35	1.3E-02	7.5E-05	4.4E-04	4.4E-04	2.5E-02	7.3E-03	4.6E-02
SS P 36	3.1E-03	7.4E-05	4.3E-04	8.5E-04	2.9E-02	7.7E-03	4.1E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(9)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS Q 01	9.3E-03	5.9E-04	4.3E-04	1.4E-03	2.7E-02	7.1E-03	4.6E-02
SS Q 02	3.5E-03	3.3E-04	3.3E-04	6.8E-04	1.8E-02	5.8E-03	2.8E-02
SS Q 03	3.7E-03	4.3E-04	3.1E-04	2.0E-03	1.6E-02	6.0E-03	2.8E-02
SS Q 04	3.3E-03	4.3E-04	3.1E-04	1.4E-03	1.5E-02	4.4E-03	2.5E-02
SS Q 05	3.7E-03	2.2E-04	3.3E-04	6.2E-03	1.3E-02	4.1E-03	2.8E-02
SS Q 06	7.2E-03	1.0E-04	3.0E-04	1.7E-03	1.2E-02	3.9E-03	2.5E-02
SS Q 07	5.3E-03	2.0E-04	2.9E-04	2.9E-03	1.3E-02	3.6E-03	2.5E-02
SS Q 08	6.0E-03	1.0E-04	3.1E-04	1.5E-03	1.3E-02	4.1E-03	2.5E-02
SS Q 09	4.9E-03	1.1E-04	3.2E-04	2.3E-03	1.3E-02	4.6E-03	2.5E-02
SS Q 10	1.8E-03	3.0E-04	4.4E-04	1.8E-03	1.8E-02	6.3E-03	2.9E-02
SS Q 11	2.9E-03	7.5E-04	4.4E-04	1.3E-03	2.2E-02	6.3E-03	3.3E-02
SS Q 12	3.8E-05	7.5E-04	4.4E-04	1.6E-03	1.4E-02	5.7E-03	2.3E-02
SS Q 13	1.7E-03	6.0E-04	4.4E-04	1.4E-03	2.3E-02	6.4E-03	3.4E-02
SS Q 14	1.2E-02	7.5E-04	4.4E-04	2.0E-03	4.7E-02	7.7E-03	7.0E-02
SS Q 15	6.8E-03	9.2E-04	3.9E-04	1.9E-03	2.2E-02	5.7E-03	3.8E-02
SS Q 16	1.7E-02	2.9E-04	4.2E-04	2.0E-03	3.8E-02	7.5E-03	6.5E-02
SS Q 17	1.6E-02	6.4E-04	3.8E-04	3.4E-03	4.8E-02	6.1E-03	7.5E-02
SS Q 18	1.7E-02	6.0E-04	4.4E-04	2.7E-03	4.6E-02	6.8E-03	7.3E-02
SS Q 19	1.0E-02	6.7E-04	3.9E-04	1.6E-03	3.2E-02	6.4E-03	5.1E-02
SS Q 20	5.9E-02	2.1E-03	4.3E-04	7.9E-04	6.2E-01	5.2E-02	7.3E-01
SS Q 21	2.8E-02	7.3E-04	4.3E-04	1.3E-03	3.8E-02	8.6E-03	7.7E-02
SS Q 22	5.1E-02	1.4E-04	4.2E-04	1.5E-03	3.3E-02	8.0E-03	9.4E-02
SS Q 23	2.3E-02	1.7E-03	4.5E-04	1.0E-03	9.0E-02	1.3E-02	1.3E-01
SS Q 24	2.9E-02	4.7E-04	4.6E-04	2.4E-03	1.2E-01	1.1E-02	1.7E-01
SS Q 25	1.6E-02	2.1E-04	3.1E-04	1.4E-03	4.8E-02	6.1E-03	7.1E-02
SS Q 26	1.6E-02	3.0E-04	2.9E-04	6.9E-04	3.2E-02	6.0E-03	5.5E-02
SS Q 27	6.7E-02	3.0E-04	2.9E-04	1.1E-03	2.7E-02	5.2E-03	1.0E-01
SS Q 28	2.4E-02	6.7E-05	3.9E-04	6.1E-04	3.9E-02	8.4E-03	7.2E-02
SS Q 29	1.1E-02	1.2E-03	3.6E-04	1.5E-03	4.6E-02	7.9E-03	6.7E-02
SS Q 30	9.6E-03	5.7E-05	3.4E-04	1.3E-03	3.1E-02	8.7E-03	5.1E-02
SS Q 31	9.4E-03	6.3E-05	3.7E-04	1.3E-03	3.3E-02	9.8E-03	5.4E-02
SS Q 32	5.3E-03	7.5E-04	4.4E-04	1.5E-03	3.6E-02	1.0E-02	5.4E-02
SS Q 33	3.6E-03	1.4E-03	4.6E-04	1.1E-03	2.5E-02	7.6E-03	3.9E-02
SS R 01	3.4E-03	6.2E-05	3.7E-04	9.0E-04	1.9E-02	5.3E-03	2.9E-02
SS R 02	2.5E-03	5.1E-05	3.0E-04	1.7E-03	1.5E-02	3.8E-03	2.3E-02
SS R 03	3.5E-03	5.0E-05	3.0E-04	1.5E-03	1.8E-02	5.0E-03	2.9E-02
SS R 04	3.9E-03	5.9E-05	3.5E-04	1.8E-03	2.4E-02	6.7E-03	3.7E-02
SS R 05	4.8E-03	6.5E-05	3.8E-04	2.5E-03	2.7E-02	7.2E-03	4.2E-02
SS R 06	7.6E-03	5.4E-05	3.2E-04	1.4E-03	1.9E-02	4.6E-03	3.3E-02
SS R 07	4.9E-03	5.2E-05	3.1E-04	2.9E-03	1.9E-02	5.1E-03	3.3E-02
SS R 08	6.0E-03	6.1E-05	3.6E-04	3.0E-03	2.1E-02	5.9E-03	3.6E-02
SS R 09	1.9E-03	6.7E-05	4.0E-04	1.4E-03	2.2E-02	7.1E-03	3.3E-02
SS R 10	3.1E-03	7.5E-05	4.4E-04	1.3E-03	2.2E-02	7.6E-03	3.4E-02
SS R 11	2.2E-03	7.5E-05	4.4E-04	1.8E-03	2.6E-02	7.2E-03	3.8E-02
SS R 12	1.1E-03	7.2E-05	4.3E-04	1.5E-03	1.9E-02	6.0E-03	2.8E-02
SS R 13	1.2E-03	7.1E-05	4.2E-04	1.5E-03	3.0E-02	6.8E-03	4.0E-02
SS R 14	1.6E-03	6.0E-03	4.3E-04	2.3E-03	3.9E-01	5.4E-02	4.6E-01
SS R 15	5.1E-03	2.1E-02	5.1E-04	1.8E-03	1.5E+00	2.1E-01	1.7E+00
SS R 16	1.4E-03	7.4E-03	3.9E-04	1.7E-03	4.9E-01	7.5E-02	5.8E-01
SS R 17	9.1E-03	6.5E-05	3.8E-04	9.5E-04	5.4E-02	8.1E-03	7.3E-02
SS R 18	1.0E-02	2.1E-03	4.2E-04	2.9E-03	1.2E-01	7.8E-04	1.4E-01

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(10)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS R 19	9.4E-03	7.5E-05	4.4E-04	1.3E-03	4.8E-02	9.4E-03	6.8E-02
SS R 20	1.7E-02	7.5E-05	4.4E-04	2.8E-03	4.8E-02	1.5E-02	8.3E-02
SS R 21	1.8E-02	7.5E-05	4.4E-04	4.9E-03	3.7E-02	9.0E-03	6.9E-02
SS R 22	2.7E-02	7.5E-05	4.4E-04	3.4E-03	6.2E-02	1.3E-02	1.1E-01
SS R 23	2.8E-02	7.3E-05	4.3E-04	1.2E-03	3.6E-02	8.6E-03	7.4E-02
SS R 24	3.6E-02	7.3E-05	4.3E-04	5.5E-04	2.4E-02	7.5E-03	6.9E-02
SS R 25	3.1E-01	3.1E-03	3.3E-04	8.9E-04	2.6E-02	6.0E-03	3.5E-01
SS R 26	8.0E-02	1.0E-03	2.9E-04	8.0E-04	2.2E-02	4.2E-03	1.1E-01
SS R 27	5.7E-02	5.3E-05	3.1E-04	9.3E-04	2.0E-02	6.0E-03	8.4E-02
SS R 28	3.4E-02	7.1E-05	4.2E-04	1.4E-03	4.0E-02	9.1E-03	8.4E-02
SS R 29	1.2E-02	5.0E-05	3.0E-04	1.3E-03	1.8E-02	4.6E-03	3.7E-02
SS R 30	1.5E-02	5.0E-05	2.9E-04	1.2E-03	2.3E-02	4.0E-03	4.4E-02
SS R 31	4.9E-03	5.8E-05	3.4E-04	9.1E-04	2.3E-02	7.0E-03	3.6E-02
SS R 32	5.4E-03	7.4E-05	4.4E-04	1.0E-03	4.5E-02	9.2E-03	6.1E-02
SS R 33	5.5E-03	7.5E-05	4.4E-04	9.6E-04	2.6E-02	6.7E-03	3.9E-02
SS S 01	6.1E-03	6.0E-05	3.5E-04	2.6E-03	1.5E-02	4.3E-03	2.8E-02
SS S 02	2.6E-03	5.6E-05	3.3E-04	2.7E-03	1.5E-02	3.9E-03	2.5E-02
SS S 03	3.6E-03	5.7E-05	3.4E-04	8.3E-04	1.5E-02	5.2E-03	2.5E-02
SS S 04	2.6E-03	5.3E-05	3.1E-04	3.5E-03	4.4E-02	6.5E-03	5.7E-02
SS S 05	3.9E-03	2.1E-03	3.2E-04	3.4E-03	6.5E-02	1.6E-02	9.1E-02
SS S 06	5.7E-03	3.8E-03	3.0E-04	2.5E-03	1.3E-01	3.1E-02	1.8E-01
SS S 07	7.4E-03	5.9E-03	3.3E-04	2.6E-03	3.0E-01	5.2E-02	3.7E-01
SS S 08	7.9E-03	4.0E-03	3.9E-04	3.4E-03	1.5E-01	3.1E-02	1.9E-01
SS S 09	1.9E-02	1.2E-02	4.1E-04	2.1E-03	6.3E-01	9.9E-02	7.7E-01
SS S 10	2.7E-02	1.2E-02	4.2E-04	1.7E-03	8.4E-01	1.2E-01	1.0E+00
SS S 11	1.4E-02	1.2E-02	4.0E-04	2.3E-03	5.4E-01	1.1E-01	6.7E-01
SS S 12	1.8E-02	9.3E-03	3.5E-04	1.9E-03	5.2E-01	8.6E-02	6.3E-01
SS S 13	4.5E-02	9.1E-03	3.8E-04	1.7E-03	6.7E-01	9.2E-02	8.2E-01
SS S 14	1.7E-02	5.7E-03	4.2E-04	2.3E-03	3.4E-01	5.1E-02	4.1E-01
SS S 15	5.6E-02	1.4E-02	3.7E-04	1.4E-03	9.6E-01	1.5E-01	1.2E+00
SS S 16	2.5E-02	6.7E-03	3.7E-04	1.7E-03	4.0E-01	6.8E-02	5.1E-01
SS S 17	5.9E-02	9.6E-03	4.0E-04	1.2E-03	8.8E-01	1.0E-01	1.0E+00
SS S 18	1.1E-02	4.1E-03	4.1E-04	2.6E-03	2.2E-01	3.4E-02	2.7E-01
SS S 19	8.4E-03	6.5E-05	3.8E-04	1.5E-03	2.7E-02	7.0E-03	4.4E-02
SS S 20	1.2E-02	6.7E-05	3.9E-04	3.2E-03	3.1E-02	7.0E-03	5.3E-02
SS S 21	4.0E-02	1.2E-03	4.4E-04	5.6E-04	1.6E-02	7.7E-03	6.6E-02
SS S 22	4.4E-02	1.1E-03	4.4E-04	2.7E-03	3.5E-02	1.1E-02	9.3E-02
SS S 23	5.6E-01	3.5E-03	4.4E-04	1.7E-03	2.5E-02	7.7E-03	6.0E-01
SS S 24	1.0E-01	1.0E-03	4.4E-04	1.4E-03	3.0E-02	7.1E-03	1.4E-01
SS S 25	8.8E-02	9.9E-04	3.6E-04	2.1E-03	2.4E-02	9.1E-03	1.2E-01
SS S 26	9.1E-02	1.0E-03	3.4E-04	8.3E-04	1.4E-02	5.2E-03	1.1E-01
SS S 27	8.8E-02	1.0E-03	3.8E-04	7.2E-04	2.4E-02	8.0E-03	1.2E-01
SS S 28	7.8E-03	1.2E-03	3.4E-04	2.2E-03	2.4E-02	6.5E-03	4.2E-02
SS S 29	3.0E-03	5.0E-05	2.9E-04	2.2E-03	1.7E-02	4.2E-03	2.7E-02
SS S 30	6.1E-03	1.2E-03	3.0E-04	1.5E-03	5.0E-02	8.5E-03	6.8E-02
SS S 31	9.1E-03	1.5E-03	3.9E-04	1.2E-03	9.6E-02	1.1E-02	1.2E-01
SS S 32	5.9E-03	7.5E-05	4.4E-04	8.0E-04	3.2E-02	1.1E-02	5.0E-02
SS S 33	1.5E-02	1.8E-03	4.4E-04	9.0E-04	3.3E-02	1.1E-02	6.3E-02
SS T 01	5.1E-03	1.2E-03	3.4E-04	2.5E-03	2.4E-02	7.0E-03	4.0E-02
SS T 02	4.7E-03	1.4E-03	3.9E-04	4.5E-03	3.4E-02	9.0E-03	5.4E-02
SS T 03	3.0E-03	1.6E-03	3.9E-04	5.3E-03	3.6E-02	1.2E-02	5.8E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(11)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS T 04	3.0E-03	1.2E-03	3.2E-04	3.8E-03	3.2E-02	9.8E-03	5.0E-02
SS T 05	1.5E-02	1.2E-02	3.6E-04	2.9E-03	5.7E-01	1.0E-01	7.0E-01
SS T 06	1.9E-02	8.1E-03	3.9E-04	1.9E-03	3.7E-01	6.7E-02	4.7E-01
SS T 07	1.8E-02	8.0E-03	4.2E-04	1.7E-03	3.0E-01	6.5E-02	3.9E-01
SS T 08	1.8E-02	5.0E-03	3.9E-04	1.0E-03	3.0E-01	4.5E-02	3.7E-01
SS T 09	4.0E-02	1.4E-02	4.2E-04	1.3E-03	7.4E-01	1.2E-01	9.2E-01
SS T 10	1.2E-02	1.3E-02	4.4E-04	1.6E-03	6.1E-01	1.1E-01	7.4E-01
SS T 11	1.5E-02	3.6E-03	4.1E-04	2.4E-03	2.0E-01	3.4E-02	2.6E-01
SS T 12	9.8E-03	7.2E-05	4.2E-04	1.3E-03	2.2E-02	7.4E-03	4.1E-02
SS T 13	8.1E-03	7.4E-05	4.4E-04	1.2E-03	2.1E-02	7.5E-03	3.8E-02
SS T 14	1.7E-02	7.2E-05	4.2E-04	1.1E-03	1.8E-02	7.1E-03	4.4E-02
SS T 15	1.6E-03	7.6E-05	4.5E-04	1.0E-03	1.4E-02	6.2E-03	2.4E-02
SS T 16	4.6E-03	9.2E-05	5.4E-04	1.3E-03	3.0E-02	1.3E-02	4.9E-02
SS T 17	6.3E-03	6.8E-05	4.0E-04	5.2E-04	1.7E-02	7.1E-03	3.1E-02
SS T 18	1.7E-02	6.9E-05	4.1E-04	1.1E-03	2.2E-02	7.4E-03	4.8E-02
SS T 19	1.0E-02	2.0E-03	4.0E-04	1.3E-03	1.4E-01	2.0E-02	1.8E-01
SS T 20	1.1E-02	1.6E-03	3.6E-04	1.2E-03	1.3E-01	1.7E-02	1.7E-01
SS T 21	3.9E-02	6.9E-05	4.1E-04	1.6E-03	1.4E-01	2.3E-02	2.1E-01
SS T 22	7.9E-02	7.4E-05	4.3E-04	1.2E-03	1.5E-02	6.1E-03	1.0E-01
SS T 23	2.6E-01	7.4E-05	4.4E-04	8.5E-04	1.4E-02	5.5E-03	2.8E-01
SS T 24	5.1E-01	3.3E-03	4.4E-04	2.0E-03	2.3E-02	8.1E-03	5.4E-01
SS T 25	2.0E-02	7.5E-05	4.4E-04	1.4E-03	1.8E-02	7.7E-03	4.8E-02
SS T 26	4.3E-02	7.1E-05	4.2E-04	7.6E-04	1.4E-02	5.8E-03	6.4E-02
SS T 27	2.3E-02	7.1E-05	4.2E-04	1.4E-03	2.9E-02	8.5E-03	6.3E-02
SS T 28	5.7E-03	6.1E-05	3.6E-04	3.3E-03	1.5E-02	5.0E-03	2.9E-02
SS T 29	5.3E-03	5.0E-05	2.9E-04	1.8E-03	1.5E-02	4.1E-03	2.7E-02
SS T 30	6.8E-03	5.6E-05	3.3E-04	1.4E-03	2.1E-02	5.7E-03	3.5E-02
SS T 31	8.7E-03	7.5E-05	4.4E-04	1.0E-03	2.8E-02	8.7E-03	4.7E-02
SS T 32	2.4E-02	6.2E-03	4.4E-04	7.9E-04	3.5E-01	7.0E-02	4.5E-01
SS T 33	6.3E-02	7.5E-05	4.4E-04	5.2E-04	2.7E-02	1.0E-02	1.0E-01
SS U 01	1.7E-03	6.1E-05	3.6E-04	1.7E-03	2.8E-02	6.1E-03	3.8E-02
SS U 02	4.4E-03	2.8E-03	3.3E-04	2.7E-03	1.2E-01	2.6E-02	1.5E-01
SS U 03	6.7E-03	3.6E-03	3.5E-04	2.4E-03	1.5E-01	3.2E-02	2.0E-01
SS U 04	1.1E-02	4.4E-03	3.9E-04	1.8E-03	1.8E-01	4.6E-02	2.4E-01
SS U 05	9.3E-03	5.7E-03	4.0E-04	2.2E-03	2.4E-01	5.4E-02	3.1E-01
SS U 06	1.8E-03	6.0E-05	3.5E-04	1.1E-03	3.2E-02	9.1E-03	4.5E-02
SS U 07	1.1E-02	7.8E-05	4.6E-04	2.0E-03	3.0E-02	1.3E-02	5.7E-02
SS U 08	8.5E-03	7.6E-05	4.5E-04	2.0E-03	1.7E-02	5.3E-03	3.3E-02
SS U 09	2.1E-02	7.5E-05	4.4E-04	2.5E-03	2.4E-02	1.0E-02	5.8E-02
SS U 10	3.0E-02	7.5E-05	4.4E-04	2.1E-03	3.3E-02	1.2E-02	7.7E-02
SS U 11	2.4E-02	7.5E-05	4.4E-04	2.0E-03	3.0E-02	1.1E-02	6.8E-02
SS U 12	9.1E-03	1.6E-03	4.4E-04	2.1E-03	3.0E-02	7.0E-03	5.0E-02
SS U 13	6.2E-03	1.5E-03	4.4E-04	1.5E-03	4.5E-02	9.9E-03	6.4E-02
SS U 14	6.8E-03	7.5E-05	4.4E-04	1.2E-03	5.7E-02	8.4E-03	7.4E-02
SS U 15	5.6E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.9E-02
SS U 16	3.0E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.7E-02
SS U 17	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.8E-02	3.5E-03	3.8E-02
SS U 18	1.1E-02	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	6.5E-02
SS U 19	8.3E-03	1.6E-03	4.3E-04	1.1E-03	4.4E-02	5.5E-03	6.1E-02
SS U 20	5.0E-03	6.8E-05	4.0E-04	9.9E-04	1.6E-02	6.7E-03	2.9E-02
SS U 21	3.0E-02	7.0E-05	4.1E-04	1.2E-03	1.8E-02	8.2E-03	5.8E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(12)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS U 22	1.2E-02	1.8E-03	3.8E-04	2.3E-03	1.6E-01	2.3E-02	2.0E-01
SS U 23	4.6E-02	1.5E-03	4.2E-04	9.6E-04	2.3E-01	2.8E-02	3.0E-01
SS U 24	1.3E-01	6.8E-05	4.0E-04	1.1E-03	2.5E-02	9.1E-03	1.6E-01
SS U 25	5.3E-02	7.4E-05	4.4E-04	9.1E-04	1.4E-02	4.4E-03	7.2E-02
SS U 26	8.4E-02	7.5E-05	4.4E-04	6.0E-04	1.3E-02	4.3E-03	1.0E-01
SS U 27	5.3E-01	1.4E-03	4.4E-04	8.2E-04	1.7E-02	4.4E-03	5.6E-01
SS U 28	8.2E-03	6.9E-05	4.0E-04	2.3E-03	1.4E-01	1.2E-02	1.6E-01
SS U 29	1.1E-02	6.1E-05	3.6E-04	2.0E-03	2.8E-02	6.0E-03	4.7E-02
SS U 30	3.1E-02	6.4E-03	4.2E-04	1.2E-03	6.6E-01	6.7E-02	7.7E-01
SS U 31	7.0E-02	7.5E-05	4.4E-04	5.3E-04	2.0E-02	9.6E-03	1.0E-01
SS U 32	8.5E-02	7.5E-05	4.4E-04	8.5E-04	1.7E-02	7.6E-03	1.1E-01
SS U 33	6.0E-02	7.5E-05	4.4E-04	1.2E-03	2.3E-02	7.1E-03	9.1E-02
SS V 01	9.2E-03	2.9E-03	4.0E-04	2.2E-03	1.8E-01	3.0E-02	2.2E-01
SS V 02	1.3E-02	4.3E-03	3.5E-04	2.4E-03	2.1E-01	5.7E-02	2.9E-01
SS V 03	1.2E-02	3.4E-03	3.3E-04	2.0E-03	1.7E-01	3.9E-02	2.3E-01
SS V 04	1.3E-02	5.1E-03	3.3E-04	1.5E-03	2.2E-01	5.0E-02	2.9E-01
SS V 05	1.7E-02	6.0E-05	3.5E-04	2.7E-03	2.3E-02	1.4E-02	5.7E-02
SS V 06	1.1E-02	6.5E-05	3.8E-04	3.1E-03	2.2E-02	8.7E-03	4.5E-02
SS V 07	2.9E-02	7.4E-05	4.4E-04	2.3E-03	2.4E-02	1.2E-02	6.7E-02
SS V 08	1.3E-02	6.0E-05	3.5E-04	1.8E-03	2.0E-02	5.8E-03	4.1E-02
SS V 09	1.4E-02	6.2E-05	3.6E-04	2.0E-03	1.8E-02	6.6E-03	4.1E-02
SS V 10	1.5E-02	6.2E-05	3.6E-04	2.5E-03	1.7E-02	9.3E-03	4.4E-02
SS V 11	5.2E-03	7.1E-05	4.2E-04	7.1E-04	1.7E-02	6.0E-03	3.0E-02
SS V 12	8.5E-03	7.2E-05	4.2E-04	6.0E-04	1.8E-02	5.8E-03	3.3E-02
SS V 13	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.2E-02	5.4E-03	3.4E-02
SS V 14	8.0E-03	7.5E-05	4.4E-04	8.6E-04	1.4E-02	6.6E-03	3.0E-02
SS V 15	2.8E-03	7.5E-05	4.4E-04	1.1E-03	7.9E-03	5.5E-03	1.8E-02
SS V 16	1.2E-02	7.5E-05	4.4E-04	2.6E-04	2.8E-02	4.6E-03	4.6E-02
SS V 17	5.6E-03	7.5E-05	4.4E-04	4.2E-03	1.8E-02	6.5E-03	3.5E-02
SS V 18	5.1E-03	7.5E-05	4.4E-04	1.9E-03	2.3E-02	7.8E-03	3.9E-02
SS V 19	1.5E-03	7.5E-05	4.4E-04	8.7E-04	1.3E-02	7.2E-03	2.3E-02
SS V 20	5.6E-03	7.5E-05	4.4E-04	1.5E-03	1.5E-02	7.1E-03	3.0E-02
SS V 21	2.2E-02	7.5E-05	4.4E-04	9.8E-04	1.6E-02	6.8E-03	4.6E-02
SS V 22	4.5E-03	7.2E-05	4.3E-04	1.1E-03	1.5E-02	7.2E-03	2.8E-02
SS V 23	6.6E-03	6.4E-05	3.8E-04	1.3E-03	2.2E-02	6.7E-03	3.7E-02
SS V 24	1.2E-02	2.6E-03	3.9E-04	1.4E-03	2.9E-01	3.1E-02	3.4E-01
SS V 25	2.9E-02	1.7E-03	5.0E-04	1.6E-03	1.6E-01	2.3E-02	2.1E-01
SS V 26	8.7E-02	9.3E-05	5.4E-04	1.8E-03	7.9E-02	1.4E-02	1.8E-01
SS V 27	6.3E-02	7.1E-05	4.2E-04	7.9E-04	2.5E-02	5.6E-03	9.5E-02
SS V 28	2.7E-02	2.6E-03	4.3E-04	1.5E-03	3.3E-01	3.8E-02	4.0E-01
SS V 29	7.6E-02	7.2E-05	4.2E-04	1.3E-03	1.8E-02	9.3E-03	1.1E-01
SS V 30	3.4E-02	7.5E-05	4.4E-04	7.9E-03	2.7E-02	7.8E-03	7.7E-02
SS V 31	5.3E-02	7.5E-05	4.4E-04	3.7E-03	2.1E-02	8.2E-03	8.7E-02
SS V 32	5.0E-02	7.5E-05	4.4E-04	1.1E-03	2.9E-02	6.9E-03	8.8E-02
SS V 33	1.3E-02	7.4E-05	4.4E-04	1.5E-03	2.1E-02	6.7E-03	4.3E-02
SS W 01	2.6E-02	1.0E-02	4.1E-04	1.7E-03	4.6E-01	8.3E-02	5.8E-01
SS W 02	1.8E-02	7.6E-03	3.0E-04	1.4E-03	3.8E-01	7.0E-02	4.7E-01
SS W 03	1.3E-02	6.0E-05	3.5E-04	1.9E-03	1.9E-02	6.4E-03	4.1E-02
SS W 04	2.0E-02	6.3E-05	3.7E-04	2.4E-03	2.3E-02	5.8E-03	5.2E-02
SS W 05	2.2E-02	6.5E-05	3.8E-04	2.4E-03	2.4E-02	9.9E-03	5.9E-02
SS W 06	1.9E-02	6.7E-05	3.9E-04	2.8E-03	2.7E-02	8.1E-03	5.7E-02

Data 6-9 Exposure Risk of Heavy Metals in Soil, Case -2: Implementation of Alternative-1 in All of Priority No.1

(13)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS W 07	2.5E-02	7.5E-05	4.4E-04	3.1E-03	2.9E-02	1.1E-02	6.8E-02
SS W 08	2.1E-02	6.6E-05	3.9E-04	2.8E-03	2.5E-02	9.9E-03	6.0E-02
SS W 09	3.5E-02	6.7E-05	3.9E-04	3.2E-04	1.5E-02	4.3E-03	5.4E-02
SS W 10	3.7E-03	5.9E-05	3.4E-04	1.8E-03	1.0E-02	4.3E-03	2.1E-02
SS W 11	2.6E-03	6.1E-05	3.6E-04	1.7E-03	1.2E-02	4.4E-03	2.1E-02
SS W 12	7.6E-03	5.9E-05	3.5E-04	1.2E-03	1.3E-02	3.6E-03	2.6E-02
SS W 13	9.7E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	5.0E-03	3.7E-02
SS W 14	4.1E-03	7.5E-05	4.4E-04	1.3E-03	1.6E-02	5.2E-03	2.7E-02
SS W 15	6.8E-03	7.5E-05	4.4E-04	1.3E-03	1.0E-02	5.0E-03	2.4E-02
SS W 16	1.3E-03	7.5E-05	4.4E-04	1.2E-03	9.2E-03	5.1E-03	1.7E-02
SS W 17	2.5E-03	7.5E-05	4.4E-04	1.6E-03	1.8E-02	4.9E-03	2.7E-02
SS W 18	5.5E-03	7.5E-05	4.4E-04	1.0E-03	1.5E-02	4.8E-03	2.7E-02
SS W 19	1.7E-02	7.5E-05	4.4E-04	2.1E-03	1.5E-02	5.7E-03	4.0E-02
SS W 20	1.8E-02	7.5E-05	4.4E-04	1.3E-03	1.2E-02	6.2E-03	3.8E-02
SS W 21	5.5E-03	7.5E-05	4.4E-04	1.6E-03	1.6E-02	6.0E-03	3.0E-02
SS W 22	5.7E-03	7.5E-05	4.4E-04	1.9E-03	1.8E-02	8.3E-03	3.5E-02
SS W 23	1.3E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	9.5E-03	4.1E-02
SS W 24	1.4E-02	6.6E-05	3.9E-04	1.2E-03	1.5E-02	6.9E-03	3.7E-02
SS W 25	5.1E-02	7.2E-05	4.2E-04	2.2E-03	4.0E-02	1.3E-02	1.1E-01
SS W 26	1.3E-02	7.3E-05	4.3E-04	3.1E-03	5.3E-02	1.5E-02	8.4E-02
SS W 27	6.9E-02	7.3E-05	4.3E-04	4.0E-03	1.3E-01	3.1E-02	2.3E-01
SS W 28	2.9E-01	7.1E-05	4.2E-04	4.0E-03	2.1E-02	6.3E-03	3.2E-01
SS W 29	1.4E-01	7.5E-05	4.4E-04	3.5E-02	3.8E-02	1.1E-02	2.2E-01
SS W 30	1.9E-01	7.5E-05	4.4E-04	1.3E-02	2.8E-02	1.1E-02	2.4E-01
SS W 31	4.1E-02	7.5E-05	4.4E-04	1.0E-02	2.3E-02	8.2E-03	8.2E-02
SS W 32	3.4E-02	6.9E-05	4.0E-04	1.2E-03	2.8E-02	1.1E-02	7.5E-02
SS W 33	5.0E-02	7.4E-05	4.4E-04	1.6E-03	3.1E-02	1.1E-02	9.5E-02
SS X 24	1.1E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	7.1E-03	3.7E-02
SS X 25	7.3E-02	7.5E-05	4.4E-04	3.0E-03	2.1E-02	8.2E-03	1.1E-01
SS X 26	2.9E-02	7.5E-05	4.4E-04	5.7E-04	1.1E-02	5.0E-03	4.6E-02
SS X 27	1.0E-02	7.0E-05	4.1E-04	3.4E-03	5.2E-02	1.5E-02	8.1E-02
SS X 28	7.0E-02	1.4E-03	4.2E-04	1.7E-02	2.5E-02	6.0E-03	1.2E-01
SS X 29	8.8E-02	6.8E-05	4.0E-04	7.1E-03	2.1E-02	5.3E-03	1.2E-01
SS X 30	6.7E-02	7.2E-05	4.2E-04	4.1E-03	2.4E-02	5.7E-03	1.0E-01
SS X 31	4.4E-02	7.3E-05	4.3E-04	1.2E-03	2.2E-02	5.6E-03	7.3E-02
SS X 32	5.8E-03	7.1E-05	4.2E-04	2.2E-03	1.9E-02	5.4E-03	3.3E-02
SS X 33	3.1E-02	7.3E-05	4.3E-04	7.2E-04	2.2E-02	4.9E-03	5.9E-02
SS Y 24	8.1E-02	7.5E-05	4.4E-04	1.5E-03	2.0E-02	1.3E-02	1.1E-01
SS Y 25	1.7E-01	7.5E-05	4.4E-04	1.2E-03	1.9E-02	9.2E-03	2.0E-01
SS Y 26	7.5E-02	7.5E-05	4.4E-04	1.6E-03	2.7E-02	6.5E-03	1.1E-01
SS Y 27	4.4E-02	7.4E-05	4.3E-04	1.2E-03	2.2E-02	6.9E-03	7.5E-02
SS Y 28	3.4E-02	7.1E-05	4.2E-04	2.3E-03	5.8E-02	1.3E-02	1.1E-01
SS Y 29	3.6E-02	8.6E-05	5.0E-04	3.1E-03	6.2E-02	2.1E-02	1.2E-01
SS Y 30	3.5E-02	7.3E-05	4.3E-04	1.8E-03	3.9E-02	1.2E-02	8.7E-02
SS Y 31	3.9E-02	2.8E-03	7.0E-04	2.4E-03	8.4E-02	4.9E-02	1.8E-01
SS Y 32	1.6E-02	2.9E-03	4.9E-04	2.8E-03	1.1E-01	4.9E-02	1.8E-01
SS Y 33	1.1E-02	2.6E-03	4.4E-04	1.6E-03	6.0E-02	4.1E-02	1.2E-01
SS Z 24	1.0E-01	7.5E-05	4.4E-04	1.9E-03	4.0E-02	2.2E-02	1.7E-01
SS Z 25	2.7E-01	7.5E-05	9.4E-04	7.8E-04	1.2E-01	1.1E-02	4.1E-01
SS Z 26	1.1E-01	7.5E-05	2.1E-03	1.7E-03	8.9E-02	2.3E-02	2.3E-01
SS Z 27	4.8E-02	7.5E-05	4.4E-04	1.5E-03	2.9E-02	8.1E-03	8.8E-02

**Data 6-10 Exposure Risk of Heavy Metals in Soil,
Case -3: Implementation of Alternative-2
in All of Priority No.1 to No.5 Area**

Data 6-10 Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(1)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS A 13	1.3E-02	7.5E-05	4.4E-04	2.5E-03	2.2E-02	0.0E+00	4.5E-02
SS A 14	1.1E-02	1.3E-03	3.8E-04	2.4E-03	1.7E-02	0.0E+00	3.8E-02
SS A 15	9.8E-03	1.4E-03	4.1E-04	3.5E-03	1.9E-02	0.0E+00	3.9E-02
SS A 16	9.0E-03	1.5E-03	4.4E-04	2.1E-03	2.7E-02	0.0E+00	4.6E-02
SS A 17	7.1E-03	6.5E-05	3.8E-04	2.3E-03	1.9E-02	0.0E+00	3.5E-02
SS A 18	1.2E-02	1.5E-03	4.4E-04	1.1E-02	2.0E-02	0.0E+00	5.2E-02
SS A 19	7.1E-03	1.4E-03	4.2E-04	9.8E-03	1.6E-02	0.0E+00	4.0E-02
SS A 20	7.8E-03	5.2E-05	3.1E-04	5.6E-03	1.0E-02	0.0E+00	2.7E-02
SS A 21	6.8E-03	5.7E-05	3.4E-04	3.5E-03	1.6E-02	0.0E+00	3.1E-02
SS A 22	1.0E-02	6.3E-05	3.7E-04	3.2E-03	1.6E-02	0.0E+00	3.5E-02
SS A 23	4.4E-03	5.5E-05	3.3E-04	4.5E-03	1.2E-02	0.0E+00	2.5E-02
SS A 24	4.1E-03	5.1E-05	3.0E-04	5.0E-03	2.0E-02	0.0E+00	3.5E-02
SS A 25	6.5E-03	1.3E-03	3.8E-04	6.5E-03	2.3E-02	0.0E+00	4.4E-02
SS B 12	2.6E-02	7.5E-05	4.4E-04	2.3E-03	2.4E-02	0.0E+00	5.9E-02
SS B 13	2.9E-02	7.5E-05	4.4E-04	1.4E-03	2.5E-02	0.0E+00	6.3E-02
SS B 14	1.3E-02	6.3E-05	3.7E-04	1.7E-03	1.8E-02	0.0E+00	3.8E-02
SS B 15	6.9E-03	6.3E-05	3.7E-04	3.4E-03	1.8E-02	0.0E+00	3.6E-02
SS B 16	7.5E-03	7.5E-05	4.4E-04	5.0E-03	1.6E-02	0.0E+00	3.4E-02
SS B 17	3.3E-03	6.7E-05	3.9E-04	5.8E-03	2.2E-02	0.0E+00	3.7E-02
SS B 18	8.3E-03	6.9E-05	4.1E-04	1.5E-02	1.7E-02	0.0E+00	4.6E-02
SS B 19	1.1E-02	7.5E-05	4.4E-04	1.2E-02	2.1E-02	0.0E+00	5.0E-02
SS B 20	5.6E-03	5.6E-05	3.3E-04	7.8E-03	1.3E-02	0.0E+00	3.2E-02
SS B 21	6.8E-03	5.7E-05	3.3E-04	4.0E-03	1.6E-02	0.0E+00	3.1E-02
SS B 22	8.3E-03	5.5E-05	3.2E-04	8.0E-03	1.2E-02	0.0E+00	3.3E-02
SS B 23	9.0E-03	7.5E-05	4.4E-04	7.4E-03	2.1E-02	0.0E+00	4.3E-02
SS B 24	6.8E-03	7.5E-05	4.4E-04	4.9E-03	1.6E-02	0.0E+00	3.4E-02
SS B 25	6.1E-03	5.5E-05	3.3E-04	3.7E-03	1.4E-02	0.0E+00	2.7E-02
SS C 11	7.5E-03	1.5E-03	4.4E-04	2.4E-03	2.7E-02	0.0E+00	4.3E-02
SS C 12	1.5E-02	7.5E-05	4.4E-04	2.2E-03	2.2E-02	0.0E+00	4.6E-02
SS C 13	9.8E-03	1.4E-03	4.1E-04	2.8E-03	2.0E-02	0.0E+00	3.9E-02
SS C 14	4.7E-03	5.9E-05	3.5E-04	3.2E-03	1.7E-02	0.0E+00	3.3E-02
SS C 15	1.1E-02	5.9E-05	3.5E-04	6.3E-03	1.7E-02	0.0E+00	4.2E-02
SS C 16	7.4E-03	6.2E-05	3.6E-04	2.5E-03	1.8E-02	0.0E+00	3.4E-02
SS C 17	8.6E-03	6.6E-05	3.9E-04	7.4E-03	1.9E-02	0.0E+00	4.1E-02
SS C 18	1.1E-02	7.2E-05	4.2E-04	8.3E-03	2.4E-02	0.0E+00	5.0E-02
SS C 19	8.9E-03	7.4E-05	4.3E-04	1.5E-02	2.2E-02	0.0E+00	5.2E-02
SS C 20	4.9E-03	6.1E-05	3.6E-04	7.9E-03	2.1E-02	0.0E+00	4.1E-02
SS C 21	1.7E-02	6.4E-05	3.7E-04	5.8E-03	1.6E-02	0.0E+00	4.5E-02
SS C 22	9.8E-03	1.0E-03	3.0E-04	3.1E-03	1.4E-02	0.0E+00	3.2E-02
SS C 23	2.3E-03	5.8E-05	3.4E-04	1.4E-03	5.3E-03	0.0E+00	1.1E-02
SS C 24	2.6E-03	6.5E-05	3.8E-04	3.1E-03	1.4E-02	0.0E+00	2.5E-02
SS C 25	6.6E-03	7.3E-05	4.3E-04	1.8E-03	1.7E-02	0.0E+00	3.2E-02
SS D 10	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.4E-02	0.0E+00	4.4E-02
SS D 11	2.4E-02	7.5E-05	4.4E-04	1.6E-03	2.2E-02	0.0E+00	5.3E-02
SS D 12	8.4E-03	6.5E-05	3.8E-04	2.9E-03	1.7E-02	0.0E+00	3.3E-02
SS D 13	7.8E-03	5.2E-05	3.1E-04	2.9E-03	1.4E-02	0.0E+00	2.9E-02
SS D 14	7.3E-03	6.6E-05	3.9E-04	7.7E-03	2.0E-02	0.0E+00	4.1E-02
SS D 15	6.0E-03	6.0E-05	3.5E-04	2.4E-03	2.0E-02	0.0E+00	3.4E-02
SS D 16	1.4E-02	7.5E-05	4.4E-04	4.5E-03	2.2E-02	0.0E+00	4.6E-02
SS D 17	4.6E-03	5.8E-05	3.4E-04	8.1E-03	1.5E-02	0.0E+00	3.5E-02
SS D 18	8.3E-03	6.4E-05	3.7E-04	8.8E-03	1.6E-02	3.9E-03	3.8E-02

Data 6-10 Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(2)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS D 19	7.2E-03	6.5E-05	3.9E-04	8.2E-03	2.2E-02	6.2E-03	4.4E-02
SS D 20	6.3E-03	7.0E-05	4.1E-04	4.4E-03	1.4E-02	5.1E-03	3.1E-02
SS D 21	7.6E-03	6.9E-05	4.0E-04	4.6E-03	1.3E-02	4.5E-03	3.0E-02
SS D 22	9.6E-03	7.4E-05	4.3E-04	1.6E-03	1.6E-02	6.0E-03	3.4E-02
SS D 23	2.3E-02	7.5E-05	4.4E-04	2.3E-03	2.3E-02	4.7E-03	5.3E-02
SS D 24	4.1E-02	7.5E-05	4.4E-04	2.6E-03	3.0E-02	4.9E-03	7.9E-02
SS D 25	3.2E-02	7.5E-05	4.4E-04	1.8E-03	2.5E-02	5.6E-03	6.4E-02
SS E 9	6.7E-03	7.4E-05	4.4E-04	4.2E-03	1.7E-02	6.2E-03	3.5E-02
SS E 10	2.6E-02	7.5E-05	4.4E-04	1.0E-03	3.5E-02	3.1E-03	6.5E-02
SS E 11	6.7E-03	6.7E-05	3.9E-04	4.2E-03	3.0E-02	6.2E-03	4.8E-02
SS E 12	1.1E-02	5.6E-05	3.3E-04	8.9E-03	1.4E-02	4.1E-03	3.8E-02
SS E 13	2.9E-02	5.7E-05	3.3E-04	1.5E-03	2.4E-02	4.4E-03	6.0E-02
SS E 14	1.0E-02	5.5E-05	3.2E-04	1.1E-02	1.5E-02	4.6E-03	4.1E-02
SS E 15	4.3E-03	5.4E-05	3.2E-04	8.7E-03	1.2E-02	4.7E-03	3.0E-02
SS E 16	4.0E-03	5.0E-05	2.9E-04	6.3E-03	6.6E-03	3.0E-03	2.0E-02
SS E 17	5.1E-03	5.6E-05	3.3E-04	6.8E-03	1.0E-02	3.1E-03	2.6E-02
SS E 18	1.0E-02	8.0E-05	4.7E-04	1.3E-02	2.5E-02	6.6E-03	5.5E-02
SS E 19	1.8E-02	8.1E-05	4.8E-04	9.8E-03	2.0E-02	8.3E-03	5.7E-02
SS E 20	8.7E-03	7.2E-05	4.2E-04	3.6E-03	1.9E-02	6.8E-03	3.8E-02
SS E 21	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.0E-02	5.6E-03	3.8E-02
SS E 22	1.7E-02	7.5E-05	4.4E-04	2.3E-03	2.6E-02	6.1E-03	5.2E-02
SS E 23	3.5E-02	7.5E-05	4.4E-04	2.1E-03	3.3E-02	6.5E-03	7.6E-02
SS E 24	9.9E-02	7.5E-05	4.4E-04	1.5E-03	3.4E-02	5.6E-03	1.4E-01
SS E 25	1.8E-02	7.5E-05	4.4E-04	1.9E-03	2.0E-02	7.8E-03	4.8E-02
SS F 9	1.9E-02	7.5E-05	4.4E-04	5.1E-03	2.2E-02	5.1E-03	5.2E-02
SS F 10	9.5E-03	7.3E-05	4.3E-04	5.5E-03	1.5E-02	5.1E-03	3.5E-02
SS F 11	6.5E-03	5.9E-05	3.5E-04	1.1E-02	1.2E-02	4.6E-03	3.5E-02
SS F 12	8.8E-03	6.3E-05	3.7E-04	1.3E-02	1.7E-02	5.2E-03	4.4E-02
SS F 13	9.1E-03	7.0E-05	4.1E-04	1.2E-02	1.8E-02	5.1E-03	4.5E-02
SS F 14	4.0E-03	5.0E-05	2.9E-04	7.1E-03	8.3E-03	3.2E-03	2.3E-02
SS F 15	6.2E-03	5.1E-05	3.0E-04	8.4E-03	1.1E-02	3.8E-03	3.0E-02
SS F 16	4.9E-03	5.5E-05	3.2E-04	7.9E-03	8.8E-03	3.3E-03	2.5E-02
SS F 17	5.8E-03	6.5E-05	3.8E-04	1.1E-02	2.3E-02	4.9E-03	4.6E-02
SS F 18	1.1E-02	6.7E-05	3.9E-04	1.4E-02	1.7E-02	5.5E-03	4.8E-02
SS F 19	1.0E-02	6.7E-05	3.9E-04	1.9E-03	1.9E-02	5.3E-03	3.7E-02
SS F 20	1.3E-02	7.5E-05	4.4E-04	1.6E-03	2.4E-02	8.5E-03	4.7E-02
SS F 21	3.6E-02	7.5E-05	4.4E-04	2.3E-03	2.5E-02	6.3E-03	7.0E-02
SS F 22	1.6E-01	7.5E-05	4.4E-04	2.4E-03	4.8E-02	4.9E-03	2.2E-01
SS F 23	1.5E-02	7.5E-05	4.4E-04	2.0E-03	2.3E-02	9.6E-03	5.0E-02
SS F 24	9.8E-03	7.5E-05	4.4E-04	2.9E-03	1.8E-02	6.0E-03	3.7E-02
SS F 25	1.4E-02	7.5E-05	4.4E-04	3.4E-03	2.0E-02	5.6E-03	4.3E-02
SS G 9	1.7E-02	7.5E-05	4.4E-04	2.4E-03	2.9E-02	6.0E-03	5.5E-02
SS G 10	1.0E-02	7.4E-05	4.4E-04	9.3E-03	1.6E-02	5.3E-03	4.2E-02
SS G 11	1.1E-02	6.2E-05	3.6E-04	1.4E-02	1.5E-02	5.0E-03	4.5E-02
SS G 12	6.8E-03	6.8E-05	4.0E-04	1.2E-02	1.7E-02	4.8E-03	4.1E-02
SS G 13	6.7E-03	6.7E-05	4.0E-04	1.3E-02	1.1E-02	7.2E-03	3.8E-02
SS G 14	6.6E-03	5.5E-05	3.2E-04	6.4E-03	1.3E-02	4.1E-03	3.0E-02
SS G 15	5.5E-03	5.5E-05	3.2E-04	9.6E-03	1.4E-02	3.9E-03	3.3E-02
SS G 16	7.2E-03	6.5E-05	3.8E-04	1.0E-02	1.4E-02	4.2E-03	3.6E-02
SS G 17	8.0E-03	7.2E-05	4.3E-04	9.9E-03	1.5E-02	4.7E-03	3.8E-02
SS G 18	2.7E-02	8.7E-05	5.1E-04	3.9E-03	2.2E-02	7.5E-03	6.1E-02

Data 6-10

Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(3)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS G 19	3.8E-02	7.4E-05	4.3E-04	2.0E-03	2.9E-02	7.3E-03	7.7E-02
SS G 20	4.9E-02	7.5E-05	4.4E-04	1.6E-03	3.5E-02	6.0E-03	9.2E-02
SS G 21	6.9E-02	7.5E-05	4.4E-04	2.3E-03	3.1E-02	7.0E-03	1.1E-01
SS G 22	1.2E-02	7.5E-05	4.4E-04	1.8E-03	2.0E-02	6.5E-03	4.1E-02
SS G 23	3.0E-03	7.5E-05	4.4E-04	1.3E-03	1.8E-02	8.0E-03	3.0E-02
SS G 24	6.8E-03	7.5E-05	4.4E-04	1.5E-03	2.2E-02	6.6E-03	3.8E-02
SS G 25	8.3E-03	7.5E-05	4.4E-04	1.5E-03	1.9E-02	7.4E-03	3.7E-02
SS G 26	1.3E-02	7.5E-05	4.4E-04	3.1E-03	2.1E-02	5.9E-03	4.3E-02
SS G 27	2.2E-02	7.5E-05	4.4E-04	2.5E-03	1.9E-02	5.9E-03	5.0E-02
SS G 28	1.6E-02	1.1E-03	3.1E-04	4.4E-03	1.5E-02	3.8E-03	4.2E-02
SS G 29	1.6E-02	1.0E-03	2.9E-04	4.7E-03	1.5E-02	3.5E-03	4.0E-02
SS G 30	1.2E-02	1.0E-03	2.9E-04	5.2E-03	1.5E-02	4.1E-03	3.7E-02
SS G 31	1.9E-02	1.2E-03	3.5E-04	3.3E-03	2.0E-02	3.9E-03	4.8E-02
SS G 32	2.5E-02	6.5E-05	3.8E-04	1.7E-03	3.4E-02	5.5E-03	6.6E-02
SS G 33	2.4E-02	1.5E-03	4.4E-04	1.9E-03	2.9E-02	5.6E-03	6.2E-02
SS G 34	2.0E-02	7.5E-05	4.4E-04	2.1E-03	4.6E-02	4.5E-03	7.3E-02
SS G 35	1.5E-02	7.5E-05	4.4E-04	2.4E-03	4.6E-02	3.4E-03	6.8E-02
SS G 36	2.4E-02	7.5E-05	4.4E-04	2.5E-03	4.1E-02	4.8E-03	7.3E-02
SS H 9	6.8E-03	7.5E-05	4.4E-04	2.8E-03	2.3E-02	5.4E-03	3.9E-02
SS H 10	1.2E-02	6.6E-05	3.9E-04	1.1E-02	1.7E-02	5.2E-03	4.5E-02
SS H 11	4.7E-03	5.8E-05	3.4E-04	1.3E-02	1.3E-02	4.0E-03	3.5E-02
SS H 12	5.4E-03	6.0E-05	3.5E-04	1.2E-02	1.2E-02	4.3E-03	3.4E-02
SS H 13	6.1E-03	5.5E-05	3.3E-04	1.1E-02	1.2E-02	4.5E-03	3.4E-02
SS H 14	6.1E-03	5.5E-05	3.3E-04	7.7E-03	1.0E-02	3.7E-03	2.8E-02
SS H 15	9.6E-03	5.6E-05	3.3E-04	1.3E-02	1.5E-02	4.5E-03	4.3E-02
SS H 16	8.3E-03	6.9E-05	4.1E-04	3.4E-03	1.7E-02	5.6E-03	3.5E-02
SS H 17	9.2E-03	6.6E-05	3.9E-04	2.2E-03	1.9E-02	5.9E-03	3.6E-02
SS H 18	8.9E-03	8.1E-05	4.7E-04	1.9E-03	2.4E-02	7.0E-03	4.2E-02
SS H 19	7.5E-03	7.5E-05	4.4E-04	1.8E-03	2.2E-02	1.0E-02	4.2E-02
SS H 20	3.8E-02	7.5E-05	4.4E-04	1.9E-03	2.9E-02	5.9E-03	7.6E-02
SS H 21	1.4E-02	7.5E-05	4.4E-04	1.9E-03	2.4E-02	8.2E-03	4.9E-02
SS H 22	1.3E-02	7.5E-05	4.4E-04	3.4E-03	2.2E-02	8.4E-03	4.7E-02
SS H 23	1.1E-02	7.5E-05	4.4E-04	1.7E-02	1.7E-02	5.9E-03	5.1E-02
SS H 24	6.2E-03	7.8E-05	4.6E-04	9.1E-04	2.7E-02	7.1E-03	4.2E-02
SS H 25	6.1E-03	1.0E-04	6.0E-04	1.7E-03	3.3E-02	1.4E-02	5.6E-02
SS H 26	1.1E-02	7.5E-05	4.4E-04	2.0E-03	2.2E-02	6.1E-03	4.2E-02
SS H 27	8.5E-03	7.1E-05	4.2E-04	2.5E-03	2.1E-02	5.1E-03	3.7E-02
SS H 28	1.6E-02	1.0E-03	2.9E-04	4.1E-03	1.5E-02	3.0E-03	3.9E-02
SS H 29	1.8E-02	5.0E-05	2.9E-04	3.3E-03	1.5E-02	2.9E-03	3.9E-02
SS H 30	1.6E-02	1.1E-03	3.1E-04	3.3E-03	1.5E-02	3.8E-03	4.0E-02
SS H 31	2.7E-02	1.4E-03	4.0E-04	1.8E-03	2.8E-02	5.4E-03	6.4E-02
SS H 32	1.9E-02	7.5E-05	4.4E-04	1.5E-03	2.7E-02	1.1E-02	6.0E-02
SS H 33	1.2E-02	1.5E-03	4.4E-04	1.9E-03	2.5E-02	6.9E-03	4.8E-02
SS H 34	3.7E-02	7.3E-05	4.3E-04	2.0E-03	3.6E-02	6.2E-03	8.2E-02
SS H 35	2.0E-02	7.5E-05	4.4E-04	5.5E-03	2.6E-02	5.2E-03	5.6E-02
SS H 36	1.7E-02	7.3E-05	4.3E-04	1.3E-02	2.5E-02	5.8E-03	6.1E-02
SS I 8	2.1E-02	9.0E-05	5.3E-04	4.5E-03	3.6E-02	6.3E-03	6.8E-02
SS I 9	1.7E-02	6.9E-05	4.0E-04	7.2E-03	1.7E-02	5.0E-03	4.7E-02
SS I 10	6.9E-03	5.3E-05	3.1E-04	1.2E-02	1.3E-02	3.8E-03	3.6E-02
SS I 11	5.5E-03	5.5E-05	3.2E-04	1.0E-02	9.4E-03	4.1E-03	3.0E-02
SS I 12	7.2E-03	5.1E-05	3.0E-04	9.3E-03	1.2E-02	4.4E-03	3.3E-02

Data 6-10

Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(4)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS I 13	6.4E-03	5.3E-05	3.1E-04	9.7E-03	1.0E-02	3.8E-03	3.0E-02
SS I 14	7.9E-03	6.6E-05	3.9E-04	6.3E-03	1.5E-02	5.1E-03	3.4E-02
SS I 15	5.8E-03	6.5E-05	3.8E-04	3.4E-03	2.1E-02	4.1E-03	3.5E-02
SS I 16	8.2E-03	1.5E-03	4.4E-04	2.6E-03	1.9E-02	6.4E-03	3.8E-02
SS I 17	6.8E-03	1.5E-03	4.4E-04	2.8E-03	2.3E-02	6.5E-03	4.1E-02
SS I 18	2.9E-03	7.3E-05	4.3E-04	2.1E-03	2.2E-02	6.9E-03	3.4E-02
SS I 19	8.5E-03	7.1E-05	4.2E-04	1.5E-03	1.9E-02	6.0E-03	3.5E-02
SS I 20	6.0E-03	7.5E-05	4.4E-04	2.6E-03	2.1E-02	1.1E-02	4.1E-02
SS I 21	4.5E-03	7.5E-05	4.4E-04	2.5E-03	2.4E-02	6.9E-03	3.8E-02
SS I 22	5.3E-03	7.5E-05	4.4E-04	1.0E-02	2.1E-02	6.4E-03	4.4E-02
SS I 23	4.5E-03	7.5E-05	4.4E-04	1.0E-03	2.1E-02	6.4E-03	3.3E-02
SS I 24	3.0E-03	7.4E-05	4.4E-04	7.4E-04	1.6E-02	5.2E-03	2.5E-02
SS I 25	6.1E-03	6.1E-05	3.6E-04	1.1E-03	1.6E-02	6.6E-03	3.0E-02
SS I 26	7.0E-03	6.4E-05	3.8E-04	1.8E-03	1.9E-02	5.9E-03	3.4E-02
SS I 27	1.7E-02	6.0E-05	3.5E-04	4.3E-03	1.7E-02	4.1E-03	4.3E-02
SS I 28	1.4E-02	5.3E-05	3.1E-04	4.8E-03	1.8E-02	3.8E-03	4.1E-02
SS I 29	1.2E-02	5.1E-05	3.0E-04	3.4E-03	2.3E-02	3.2E-03	4.3E-02
SS I 30	2.3E-02	6.9E-05	4.1E-04	2.9E-03	2.5E-02	5.9E-03	5.7E-02
SS I 31	1.3E-02	7.5E-05	4.4E-04	1.9E-03	5.2E-02	7.0E-03	7.4E-02
SS I 32	5.3E-03	1.5E-03	4.4E-04	2.0E-03	1.7E-02	2.3E-02	5.0E-02
SS I 33	1.8E-02	1.5E-03	4.4E-04	2.6E-03	3.3E-02	7.9E-03	6.3E-02
SS I 34	1.0E-02	7.5E-05	4.4E-04	2.4E-03	2.4E-02	5.2E-03	4.3E-02
SS I 35	8.1E-03	6.2E-05	3.7E-04	8.1E-03	2.0E-02	5.4E-03	4.2E-02
SS I 36	1.1E-02	6.3E-05	3.7E-04	1.1E-02	2.2E-02	4.6E-03	4.9E-02
SS J 7	4.4E-03	1.5E-03	4.4E-04	3.1E-03	2.5E-02	6.3E-03	4.0E-02
SS J 8	3.8E-03	6.3E-05	3.7E-04	4.1E-03	1.6E-02	5.0E-03	2.9E-02
SS J 9	7.7E-03	1.0E-03	3.0E-04	1.5E-02	1.2E-02	4.3E-03	4.0E-02
SS J 10	7.3E-03	1.3E-03	3.9E-04	1.2E-02	1.4E-02	4.7E-03	4.0E-02
SS J 11	8.1E-03	6.3E-05	3.7E-04	1.4E-02	1.4E-02	4.5E-03	4.2E-02
SS J 12	6.7E-03	5.1E-05	3.0E-04	1.0E-02	1.1E-02	3.8E-03	3.3E-02
SS J 13	9.3E-03	5.8E-05	3.4E-04	6.1E-03	1.3E-02	3.6E-03	3.2E-02
SS J 14	6.0E-03	7.5E-05	4.4E-04	2.0E-03	2.4E-02	4.9E-03	3.7E-02
SS J 15	5.3E-03	1.5E-03	4.4E-04	1.6E-03	2.1E-02	5.7E-03	3.5E-02
SS J 16	7.5E-03	7.5E-05	4.4E-04	2.0E-03	2.1E-02	5.2E-03	3.7E-02
SS J 17	3.0E-03	1.5E-03	4.4E-04	2.0E-03	1.8E-02	6.1E-03	3.1E-02
SS J 18	1.1E-03	7.4E-05	4.4E-04	1.4E-03	1.6E-02	4.7E-03	2.4E-02
SS J 19	8.9E-03	7.4E-05	4.4E-04	2.4E-03	2.2E-02	5.9E-03	4.0E-02
SS J 20	3.3E-03	6.6E-05	3.9E-04	1.5E-03	2.0E-02	5.6E-03	3.1E-02
SS J 21	7.4E-03	1.5E-03	4.3E-04	1.8E-03	2.1E-02	6.0E-03	3.9E-02
SS J 22	4.5E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.3E-03	2.9E-02
SS J 23	3.4E-03	6.9E-05	4.0E-04	1.3E-03	1.4E-02	4.3E-03	2.4E-02
SS J 24	4.1E-03	5.9E-05	3.5E-04	1.2E-03	1.4E-02	4.2E-03	2.4E-02
SS J 25	5.8E-03	1.1E-03	3.1E-04	1.3E-03	1.8E-02	4.1E-03	3.0E-02
SS J 26	9.8E-03	1.1E-03	3.2E-04	3.5E-03	1.6E-02	4.0E-03	3.5E-02
SS J 27	1.6E-02	5.0E-05	2.9E-04	3.0E-03	1.5E-02	2.7E-03	3.7E-02
SS J 28	8.0E-03	1.1E-03	3.1E-04	3.5E-03	2.2E-02	4.5E-03	3.9E-02
SS J 29	1.5E-02	1.6E-03	4.7E-04	2.9E-03	2.8E-02	7.2E-03	5.6E-02
SS J 30	1.1E-02	8.0E-05	4.7E-04	1.2E-03	3.4E-02	7.5E-03	5.5E-02
SS J 31	7.7E-02	7.5E-05	4.4E-04	1.5E-03	4.5E-01	5.3E-03	5.3E-01
SS J 32	1.2E-02	1.5E-03	4.4E-04	2.4E-03	3.2E-02	6.7E-03	5.5E-02
SS J 33	1.1E-02	7.5E-05	4.4E-04	1.6E-03	2.6E-02	7.0E-03	4.6E-02

Data 6-10

Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(5)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS J 34	1.4E-02	7.5E-05	4.4E-04	1.4E-02	2.5E-02	5.7E-03	6.0E-02
SS J 35	1.5E-02	7.5E-05	4.4E-04	1.0E-02	2.7E-02	5.8E-03	5.8E-02
SS J 36	1.3E-02	1.6E-03	4.8E-04	1.3E-02	2.8E-02	6.9E-03	6.3E-02
SS K 06	5.8E-03	7.5E-05	4.4E-04	1.9E-03	1.4E-02	5.0E-03	2.8E-02
SS K 07	4.2E-03	6.6E-05	3.9E-04	1.6E-03	1.6E-02	3.9E-03	2.6E-02
SS K 08	7.6E-03	5.9E-05	3.5E-04	1.1E-02	1.1E-02	7.2E-03	3.8E-02
SS K 09	1.1E-03	5.1E-05	3.0E-04	1.1E-02	1.0E-02	5.6E-03	2.9E-02
SS K 10	1.7E-03	6.1E-05	3.6E-04	1.4E-02	1.2E-02	5.0E-03	3.3E-02
SS K 11	3.1E-03	5.1E-05	3.0E-04	1.2E-02	8.9E-03	4.1E-03	2.9E-02
SS K 12	3.0E-03	5.2E-05	3.1E-04	6.8E-03	1.2E-02	6.2E-03	2.8E-02
SS K 13	9.4E-03	6.9E-05	4.1E-04	1.1E-03	1.3E-02	5.4E-03	3.0E-02
SS K 14	4.6E-03	7.5E-05	4.4E-04	1.2E-03	1.5E-02	6.1E-03	2.8E-02
SS K 15	1.7E-03	7.5E-05	4.4E-04	1.3E-03	1.3E-02	6.2E-03	2.3E-02
SS K 16	3.8E-04	7.5E-05	4.4E-04	6.5E-03	3.8E-02	9.0E-03	5.4E-02
SS K 17	4.0E-03	7.5E-05	4.4E-04	1.3E-03	1.8E-02	6.4E-03	3.0E-02
SS K 18	1.7E-02	7.5E-05	4.4E-04	1.4E-03	2.3E-02	9.2E-03	5.1E-02
SS K 19	1.7E-03	6.4E-05	3.8E-04	1.3E-03	1.3E-02	4.7E-03	2.1E-02
SS K 20	1.2E-03	5.1E-05	3.0E-04	7.8E-04	9.6E-03	3.6E-03	1.6E-02
SS K 21	2.8E-03	6.0E-05	3.6E-04	4.3E-04	9.4E-03	3.7E-03	1.7E-02
SS K 22	2.2E-03	9.5E-05	5.6E-04	1.5E-03	2.7E-02	5.4E-03	3.6E-02
SS K 23	1.8E-03	5.0E-05	2.9E-04	6.8E-04	1.4E-02	3.7E-03	2.1E-02
SS K 24	3.6E-03	5.0E-05	2.9E-04	1.2E-03	1.2E-02	3.6E-03	2.1E-02
SS K 25	4.3E-03	5.4E-05	3.2E-04	1.8E-03	1.4E-02	3.8E-03	2.4E-02
SS K 26	1.0E-02	5.6E-05	3.3E-04	3.0E-03	1.4E-02	3.7E-03	3.1E-02
SS K 27	7.9E-03	5.0E-05	2.9E-04	2.4E-03	1.4E-02	3.4E-03	2.8E-02
SS K 28	1.3E-02	5.7E-05	3.3E-04	1.3E-03	1.5E-02	4.2E-03	3.4E-02
SS K 29	2.1E-02	8.8E-05	5.2E-04	1.2E-03	2.6E-02	7.1E-03	5.6E-02
SS K 30	1.2E-01	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.2E-03	1.5E-01
SS K 31	8.3E-03	7.5E-05	4.4E-04	5.9E-03	3.0E-02	6.0E-03	5.1E-02
SS K 32	9.4E-03	7.5E-05	4.4E-04	2.0E-03	1.7E-02	7.2E-03	3.7E-02
SS K 33	9.0E-03	7.5E-05	4.4E-04	1.2E-02	2.0E-02	5.0E-03	4.7E-02
SS K 34	8.9E-03	7.5E-05	4.4E-04	1.1E-02	4.0E-02	6.4E-03	6.7E-02
SS K 35	7.8E-03	8.3E-05	4.9E-04	1.8E-02	2.1E-02	8.8E-03	5.6E-02
SS K 36	1.0E-02	4.2E-03	7.8E-04	6.2E-03	1.3E-01	3.0E-02	1.9E-01
SS L 05	4.7E-03	7.5E-05	4.4E-04	3.0E-03	1.7E-02	5.3E-03	3.1E-02
SS L 06	3.6E-04	7.1E-05	4.2E-04	3.0E-03	1.6E-02	4.7E-03	2.5E-02
SS L 07	3.8E-03	5.0E-05	2.9E-04	2.6E-03	1.8E-02	4.3E-03	2.9E-02
SS L 08	3.2E-03	5.5E-05	3.2E-04	1.2E-02	1.1E-02	3.9E-03	3.0E-02
SS L 09	5.7E-03	5.0E-05	2.9E-04	1.1E-02	6.5E-03	4.0E-03	2.7E-02
SS L 10	2.5E-04	5.1E-05	3.0E-04	1.1E-02	9.4E-03	4.0E-03	2.5E-02
SS L 11	5.4E-03	5.3E-05	3.1E-04	5.9E-03	9.2E-03	3.8E-03	2.5E-02
SS L 12	3.9E-03	7.4E-05	4.4E-04	3.2E-03	1.8E-02	6.3E-03	3.2E-02
SS L 13	3.0E-03	7.5E-05	4.4E-04	1.7E-03	1.5E-02	5.6E-03	2.6E-02
SS L 14	1.2E-03	7.5E-05	4.4E-04	1.9E-03	1.6E-02	6.4E-03	2.6E-02
SS L 15	9.0E-03	7.5E-05	4.4E-04	1.3E-03	1.7E-02	6.3E-03	3.4E-02
SS L 16	1.6E-03	7.5E-05	4.4E-04	9.0E-04	1.3E-02	4.7E-03	2.0E-02
SS L 17	5.7E-03	1.7E-03	4.0E-04	1.0E-03	1.6E-02	4.6E-03	3.0E-02
SS L 18	1.9E-03	5.0E-05	2.9E-04	1.0E-03	1.3E-02	3.7E-03	2.0E-02
SS L 19	2.5E-03	5.0E-05	2.9E-04	5.7E-04	1.1E-02	3.4E-03	1.8E-02
SS L 20	1.0E-03	5.1E-05	3.0E-04	7.4E-04	1.5E-02	4.4E-03	2.1E-02
SS L 21	2.9E-03	5.2E-05	3.1E-04	1.4E-03	5.2E-02	3.2E-03	5.9E-02

Data 6-10 Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(6)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS L 22	4.0E-03	5.4E-05	3.2E-04	1.4E-03	1.4E-02	4.2E-03	2.4E-02
SS L 23	8.2E-03	7.5E-05	4.4E-04	1.2E-03	2.1E-02	5.0E-03	3.6E-02
SS L 24	3.7E-03	5.0E-05	3.0E-04	1.8E-03	1.4E-02	3.3E-03	2.3E-02
SS L 25	5.0E-03	5.4E-05	3.2E-04	2.3E-03	1.6E-02	3.6E-03	2.7E-02
SS L 26	1.2E-02	5.0E-05	3.0E-04	1.9E-03	1.8E-02	3.3E-03	3.6E-02
SS L 27	7.8E-03	5.9E-05	3.5E-04	1.8E-03	2.5E-02	4.9E-03	4.0E-02
SS L 28	8.4E-03	7.2E-05	4.2E-04	1.2E-03	2.3E-02	6.0E-03	3.9E-02
SS L 29	4.1E-02	6.8E-05	4.0E-04	6.9E-04	2.8E-01	3.1E-02	3.6E-01
SS L 30	5.2E-03	7.4E-05	4.4E-04	1.0E-03	2.1E-02	7.1E-03	3.4E-02
SS L 31	1.0E-02	7.5E-05	4.4E-04	6.7E-03	4.7E-02	6.1E-03	7.1E-02
SS L 32	3.4E-03	7.0E-05	4.1E-04	3.4E-03	2.5E-02	5.4E-03	3.8E-02
SS L 33	1.1E-02	7.4E-05	4.3E-04	3.1E-03	3.0E-02	5.5E-03	5.0E-02
SS L 34	8.2E-03	7.4E-05	4.3E-04	4.4E-03	2.7E-02	6.3E-03	4.6E-02
SS L 35	7.7E-03	9.4E-03	6.7E-04	3.6E-03	3.8E-01	5.2E-02	4.5E-01
SS L 36	4.3E-03	2.5E-03	6.5E-04	2.1E-03	6.8E-02	1.4E-02	9.1E-02
SS M 04	5.7E-03	7.5E-05	4.4E-04	1.1E-03	1.8E-02	4.9E-03	3.0E-02
SS M 05	4.0E-03	7.1E-05	4.2E-04	1.7E-03	1.8E-02	5.2E-03	2.9E-02
SS M 06	9.6E-03	6.5E-05	3.8E-04	1.6E-03	1.9E-02	6.0E-03	3.7E-02
SS M 07	3.1E-03	5.5E-05	3.2E-04	1.8E-03	1.7E-02	4.8E-03	2.7E-02
SS M 08	3.8E-03	5.2E-05	3.1E-04	1.4E-02	9.4E-03	4.1E-03	3.2E-02
SS M 09	3.1E-03	5.3E-05	3.1E-04	1.5E-02	9.0E-03	4.5E-03	3.2E-02
SS M 10	8.0E-03	5.1E-05	3.0E-04	6.5E-03	1.0E-02	3.7E-03	2.9E-02
SS M 11	2.1E-03	5.5E-05	3.2E-04	1.1E-03	1.1E-02	4.6E-03	1.9E-02
SS M 12	9.8E-03	7.5E-05	4.4E-04	1.0E-03	1.8E-02	6.6E-03	3.6E-02
SS M 13	3.0E-03	7.5E-05	4.4E-04	2.8E-03	1.8E-02	6.6E-03	3.1E-02
SS M 14	2.2E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	6.7E-03	3.1E-02
SS M 15	3.1E-03	7.5E-05	4.4E-04	1.2E-03	1.8E-02	6.4E-03	2.9E-02
SS M 16	4.2E-03	7.0E-05	4.1E-04	1.9E-03	1.3E-02	5.6E-03	2.5E-02
SS M 17	2.0E-03	5.0E-05	2.9E-04	7.0E-04	9.8E-03	3.8E-03	1.7E-02
SS M 18	3.1E-03	5.1E-05	3.0E-04	8.9E-04	1.2E-02	4.4E-03	2.1E-02
SS M 19	2.3E-03	5.0E-05	3.0E-04	8.6E-04	9.6E-03	3.6E-03	1.7E-02
SS M 20	5.4E-03	5.0E-05	2.9E-04	7.8E-04	1.0E-02	3.3E-03	2.0E-02
SS M 21	6.2E-03	5.2E-05	3.0E-04	1.0E-03	1.3E-02	4.5E-03	2.6E-02
SS M 22	5.6E-03	5.6E-05	3.3E-04	1.5E-03	1.8E-02	4.4E-03	3.0E-02
SS M 23	9.2E-03	5.0E-05	3.0E-04	1.4E-03	1.1E-02	3.1E-03	2.5E-02
SS M 24	5.5E-03	5.0E-05	2.9E-04	2.1E-03	1.3E-02	3.3E-03	2.4E-02
SS M 25	1.7E-02	5.7E-05	3.3E-04	1.1E-03	3.1E-02	8.0E-03	5.8E-02
SS M 26	1.5E-02	7.0E-05	4.1E-04	1.2E-03	1.6E-02	4.9E-03	3.8E-02
SS M 27	1.3E-02	7.3E-05	4.3E-04	1.9E-03	2.3E-02	1.1E-02	4.9E-02
SS M 28	4.2E-02	7.4E-05	4.3E-04	8.0E-04	2.1E-01	1.6E-02	2.7E-01
SS M 29	1.8E-02	4.5E-03	3.8E-04	1.4E-03	2.5E-01	4.6E-02	3.2E-01
SS M 30	2.0E-03	7.1E-05	4.2E-04	1.0E-03	1.9E-02	6.7E-03	2.9E-02
SS M 31	1.8E-02	7.5E-05	4.4E-04	3.9E-03	5.2E-02	5.7E-03	8.0E-02
SS M 32	1.7E-02	7.4E-05	4.3E-04	3.5E-03	7.5E-02	8.9E-03	1.1E-01
SS M 33	1.8E-02	3.5E-03	4.7E-04	2.8E-03	2.1E-01	4.5E-02	2.8E-01
SS M 34	1.0E-02	2.0E-03	6.9E-05	3.7E-04	1.0E-01	3.0E-02	1.4E-01
SS M 35	2.0E-03	1.0E-02	8.4E-05	3.3E-04	1.0E-01	1.0E-02	1.2E-01
SS M 36	1.0E-03	1.0E-04	5.9E-04	9.7E-04	6.2E-02	1.4E-02	7.8E-02
SS N 03	1.8E-02	7.5E-05	4.4E-04	1.6E-03	2.5E-02	5.0E-03	4.9E-02
SS N 04	4.6E-02	7.4E-05	4.3E-04	6.9E-04	3.0E-02	5.1E-03	8.2E-02
SS N 05	2.5E-03	8.8E-05	5.2E-04	2.7E-03	2.6E-02	1.2E-02	4.4E-02

Data 6-10 Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(7)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS N 06	1.1E-03	5.6E-05	3.3E-04	2.3E-03	1.7E-02	4.5E-03	2.5E-02
SS N 07	5.4E-03	5.7E-05	3.4E-04	7.3E-03	1.2E-02	4.0E-03	2.9E-02
SS N 08	5.4E-03	5.2E-05	3.0E-04	1.3E-02	1.1E-02	4.2E-03	3.4E-02
SS N 09	4.0E-03	5.0E-05	2.9E-04	9.9E-03	1.6E-02	3.5E-03	3.3E-02
SS N 10	2.8E-03	5.0E-05	2.9E-04	2.9E-03	1.2E-02	3.5E-03	2.1E-02
SS N 11	1.2E-03	5.5E-05	3.2E-04	7.4E-04	1.5E-02	5.2E-03	2.3E-02
SS N 12	2.6E-03	7.5E-05	4.4E-04	5.9E-04	2.2E-02	6.6E-03	3.2E-02
SS N 13	3.4E-03	7.5E-05	4.4E-04	7.0E-04	2.5E-02	5.5E-03	3.5E-02
SS N 14	1.1E-03	7.5E-05	4.4E-04	1.1E-03	1.7E-02	6.4E-03	2.7E-02
SS N 15	2.9E-03	7.5E-05	4.4E-04	1.5E-03	1.4E-02	6.1E-03	2.5E-02
SS N 16	3.2E-03	6.7E-05	3.9E-04	7.2E-04	1.6E-02	5.4E-03	2.6E-02
SS N 17	6.9E-03	5.4E-05	3.1E-04	6.1E-04	2.0E-02	5.9E-03	3.4E-02
SS N 18	2.8E-03	5.1E-05	3.0E-04	9.3E-04	1.6E-02	6.1E-03	2.6E-02
SS N 19	3.2E-03	5.0E-05	2.9E-04	6.8E-04	1.6E-02	4.1E-03	2.4E-02
SS N 20	1.6E-02	5.2E-05	3.0E-04	5.6E-04	2.0E-02	4.5E-03	4.1E-02
SS N 21	7.3E-03	5.5E-05	3.2E-04	2.3E-03	2.2E-02	6.0E-03	3.9E-02
SS N 22	6.2E-03	5.3E-05	3.1E-04	1.7E-03	2.6E-02	6.4E-03	4.1E-02
SS N 23	8.6E-03	3.1E-03	3.5E-04	3.3E-03	9.2E-02	2.0E-02	1.3E-01
SS N 24	4.1E-02	9.3E-03	4.2E-04	1.8E-03	7.0E-01	9.6E-02	8.5E-01
SS N 25	1.4E-02	7.5E-06	4.4E-05	1.8E-04	7.9E-02	4.2E-03	9.7E-02
SS N 26	4.1E-02	9.3E-03	4.2E-04	1.8E-03	7.0E-01	9.6E-02	8.5E-01
SS N 27	4.1E-02	9.3E-03	4.2E-04	1.8E-03	7.0E-01	9.6E-02	8.5E-01
SS N 28	4.1E-02	9.3E-03	4.2E-04	1.8E-03	7.0E-01	9.6E-02	8.5E-01
SS N 29	1.1E-02	6.5E-05	3.0E-05	1.0E-04	1.0E-01	1.0E-02	1.2E-01
SS N 30	2.1E-02	1.6E-03	4.4E-05	3.4E-04	1.0E-01	2.5E-02	1.5E-01
SS N 31	2.5E-02	3.0E-03	4.4E-05	1.1E-04	1.0E-01	3.7E-02	1.6E-01
SS N 32	1.0E-02	9.6E-04	4.5E-05	1.2E-04	1.0E-01	2.3E-02	1.3E-01
SS N 33	1.1E-02	2.9E-03	6.2E-05	2.1E-04	1.3E-01	3.0E-02	1.7E-01
SS N 34	2.0E-03	1.0E-03	8.7E-05	2.6E-04	1.0E-01	1.0E-02	1.1E-01
SS N 35	2.0E-03	1.0E-03	8.7E-05	2.6E-04	1.0E-01	1.0E-02	1.1E-01
SS N 36	4.5E-03	1.2E-04	6.9E-04	2.9E-04	1.6E-01	2.2E-02	1.9E-01
SS O 02	2.1E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	5.6E-03	7.5E-02
SS O 03	2.5E-02	7.5E-05	4.4E-04	7.5E-04	4.7E-02	7.8E-03	8.1E-02
SS O 04	5.8E-03	6.8E-05	4.0E-04	1.6E-03	2.2E-02	5.3E-03	3.6E-02
SS O 05	5.2E-03	5.7E-05	3.4E-04	2.3E-03	2.0E-02	5.0E-03	3.3E-02
SS O 06	1.9E-03	5.5E-05	3.3E-04	3.2E-03	1.7E-02	3.9E-03	2.6E-02
SS O 07	8.2E-03	5.3E-05	3.1E-04	4.0E-03	2.1E-02	2.7E-03	3.7E-02
SS O 08	7.5E-03	5.2E-05	3.0E-04	1.1E-02	1.4E-02	4.4E-03	3.8E-02
SS O 09	1.9E-02	6.8E-05	4.0E-04	8.3E-03	1.8E-02	5.6E-03	5.1E-02
SS O 10	5.3E-03	6.3E-05	3.7E-04	8.9E-03	1.8E-02	6.4E-03	3.9E-02
SS O 11	2.2E-03	1.1E-04	6.3E-04	4.2E-03	8.6E-02	3.0E-02	1.2E-01
SS O 12	1.1E-03	8.2E-05	4.8E-04	2.5E-03	2.4E-02	1.2E-02	4.0E-02
SS O 13	2.3E-03	7.5E-05	4.4E-04	1.9E-03	2.6E-02	7.3E-03	3.8E-02
SS O 14	1.5E-03	7.5E-05	4.4E-04	1.4E-03	2.3E-02	7.4E-03	3.4E-02
SS O 15	3.7E-03	7.5E-05	4.4E-04	1.4E-03	3.9E-02	8.1E-03	5.2E-02
SS O 16	5.8E-03	6.7E-05	3.9E-04	1.5E-03	3.2E-02	5.6E-03	4.5E-02
SS O 17	5.0E-03	6.7E-05	4.0E-04	1.5E-03	3.1E-02	5.7E-03	4.3E-02
SS O 18	9.1E-03	6.0E-05	3.5E-04	1.5E-03	3.3E-02	5.6E-03	5.0E-02
SS O 19	1.6E-02	6.0E-05	3.5E-04	1.8E-03	5.0E-02	7.1E-03	7.5E-02
SS O 20	1.0E-02	5.3E-05	3.1E-04	1.9E-03	2.4E-02	5.0E-03	4.2E-02
SS O 21	4.9E-03	5.7E-05	3.4E-04	9.1E-04	3.3E-02	7.4E-03	4.6E-02

Data 6-10 Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(8)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS O 22	2.3E-02	5.6E-05	3.3E-04	2.1E-03	3.0E-02	5.6E-03	6.1E-02
SS O 23	4.8E-02	6.1E-05	3.6E-04	9.3E-04	2.0E-02	6.0E-03	7.6E-02
SS O 24	5.2E-02	6.6E-05	3.9E-04	1.9E-03	2.8E-02	6.0E-03	8.9E-02
SS O 25	6.0E-02	7.5E-05	4.4E-04	2.4E-03	4.5E-02	8.0E-03	1.2E-01
SS O 26	2.0E-01	7.5E-05	4.4E-04	1.8E-03	5.9E-02	6.8E-03	2.7E-01
SS O 27	1.4E-01	7.5E-05	4.4E-04	1.2E-03	1.8E-01	1.0E-02	3.3E-01
SS O 28	1.4E-02	2.2E-03	4.4E-05	1.4E-04	8.9E-02	2.4E-02	1.3E-01
SS O 29	0.0E+00	5.0E-03	4.1E-05	1.5E-04	1.0E-01	4.2E-03	1.1E-01
SS O 30	3.8E-02	1.9E-03	5.1E-05	1.5E-04	5.0E-02	1.0E-02	1.0E-01
SS O 31	1.0E-02	2.6E-03	5.5E-04	2.3E-03	8.7E-02	1.6E-02	1.2E-01
SS O 32	2.6E-02	1.4E-04	8.1E-04	2.7E-03	8.0E-02	1.6E-02	1.3E-01
SS O 33	5.3E-02	1.5E-04	8.7E-04	4.8E-03	1.2E-01	2.5E-02	2.1E-01
SS O 34	2.2E-02	1.4E-04	8.0E-04	3.3E-03	5.2E-01	3.9E-02	5.9E-01
SS O 35	2.3E-02	1.1E-04	6.5E-04	1.0E-03	5.5E-02	1.5E-02	9.5E-02
SS O 36	6.6E-03	9.6E-05	5.7E-04	4.3E-04	4.1E-02	1.2E-02	6.1E-02
SS P 01	5.7E-03	3.0E-04	4.4E-04	3.1E-03	2.3E-02	7.1E-03	4.0E-02
SS P 02	9.2E-03	7.5E-04	4.4E-04	8.7E-04	2.5E-02	6.9E-03	4.3E-02
SS P 03	2.5E-03	4.9E-04	3.6E-04	1.4E-03	1.6E-02	6.2E-03	2.7E-02
SS P 04	8.5E-03	2.4E-04	3.5E-04	2.6E-03	1.5E-02	4.7E-03	3.1E-02
SS P 05	3.6E-03	1.1E-04	3.2E-04	3.1E-03	1.3E-02	4.3E-03	2.4E-02
SS P 06	5.3E-03	2.1E-04	3.1E-04	5.0E-03	1.4E-02	5.1E-03	3.0E-02
SS P 07	4.4E-03	8.0E-04	2.9E-04	2.9E-03	1.6E-02	4.9E-03	3.0E-02
SS P 08	1.2E-02	3.4E-04	3.3E-04	3.7E-03	1.5E-02	4.8E-03	3.6E-02
SS P 09	1.3E-03	3.6E-04	3.5E-04	4.6E-04	1.5E-02	6.4E-03	2.4E-02
SS P 10	2.8E-03	1.6E-03	4.3E-04	1.8E-03	1.9E-02	8.3E-03	3.4E-02
SS P 11	2.1E-03	3.0E-04	4.4E-04	7.5E-04	1.4E-02	8.3E-03	2.6E-02
SS P 12	1.7E-03	6.0E-04	4.4E-04	1.2E-03	1.9E-02	7.6E-03	3.0E-02
SS P 13	3.3E-03	7.5E-04	4.4E-04	1.8E-03	2.0E-02	6.8E-03	3.3E-02
SS P 14	2.6E-02	1.5E-04	4.4E-04	1.9E-03	6.5E-02	8.8E-03	1.0E-01
SS P 15	5.5E-03	4.4E-04	4.3E-04	1.3E-03	2.5E-02	6.5E-03	3.9E-02
SS P 16	4.6E-03	1.3E-04	3.8E-04	1.0E-03	2.1E-02	5.7E-03	3.3E-02
SS P 17	2.0E-02	0.0E+00	3.8E-04	2.6E-03	4.5E-02	6.9E-03	7.4E-02
SS P 18	1.4E-02	1.1E-04	3.4E-04	2.9E-03	3.5E-02	6.6E-03	5.9E-02
SS P 19	1.6E-02	1.2E-04	3.7E-04	1.4E-03	4.1E-02	6.7E-03	6.5E-02
SS P 20	8.3E-03	3.8E-04	3.7E-04	8.4E-04	1.8E-02	6.4E-03	3.5E-02
SS P 21	1.2E-01	8.5E-03	4.1E-04	1.1E-03	1.5E+00	1.3E-01	1.7E+00
SS P 22	1.1E-02	1.7E-03	3.3E-04	9.5E-04	3.2E-02	6.9E-03	5.2E-02
SS P 23	1.8E-02	0.0E+00	3.7E-04	2.2E-03	2.3E-02	7.2E-03	5.1E-02
SS P 24	1.3E-02	5.5E-04	4.0E-04	1.8E-03	2.1E-02	6.9E-03	4.4E-02
SS P 25	3.5E-02	1.4E-04	4.1E-04	1.4E-03	3.2E-02	7.0E-03	7.5E-02
SS P 26	7.5E-02	5.1E-04	3.8E-04	2.5E-03	3.3E-02	7.1E-03	1.2E-01
SS P 27	4.6E-02	1.1E-04	3.2E-04	1.5E-03	5.2E-02	6.2E-03	1.1E-01
SS P 28	3.6E-02	1.0E-04	5.9E-04	7.6E-04	5.0E-01	1.7E-02	5.6E-01
SS P 29	3.2E-02	1.2E-04	7.1E-04	3.0E-03	1.0E+00	2.9E-02	1.1E+00
SS P 30	4.6E-02	1.2E-04	7.0E-04	5.0E-03	1.2E-01	1.5E-02	1.8E-01
SS P 31	5.2E-02	1.4E-04	8.3E-04	4.5E-03	8.2E-02	1.3E-02	1.5E-01
SS P 32	1.6E-01	1.5E-04	8.6E-04	4.4E-03	1.1E-01	1.4E-02	2.8E-01
SS P 33	1.3E-02	1.2E-04	7.1E-04	2.3E-03	1.2E-01	2.4E-02	1.6E-01
SS P 34	4.2E-05	8.3E-05	4.9E-04	3.7E-04	2.8E-02	8.0E-03	3.7E-02
SS P 35	1.3E-02	7.5E-05	4.4E-04	4.4E-04	2.5E-02	7.3E-03	4.6E-02
SS P 36	3.1E-03	7.4E-05	4.3E-04	8.5E-04	2.9E-02	7.7E-03	4.1E-02

Data 6-10 Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(9)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS Q 01	9.3E-03	5.9E-04	4.3E-04	1.4E-03	2.7E-02	7.1E-03	4.6E-02
SS Q 02	3.5E-03	3.3E-04	3.3E-04	6.8E-04	1.8E-02	5.8E-03	2.8E-02
SS Q 03	3.7E-03	4.3E-04	3.1E-04	2.0E-03	1.6E-02	6.0E-03	2.8E-02
SS Q 04	3.3E-03	4.3E-04	3.1E-04	1.4E-03	1.5E-02	4.4E-03	2.5E-02
SS Q 05	3.7E-03	2.2E-04	3.3E-04	6.2E-03	1.3E-02	4.1E-03	2.8E-02
SS Q 06	7.2E-03	1.0E-04	3.0E-04	1.7E-03	1.2E-02	3.9E-03	2.5E-02
SS Q 07	5.3E-03	2.0E-04	2.9E-04	2.9E-03	1.3E-02	3.6E-03	2.5E-02
SS Q 08	6.0E-03	1.0E-04	3.1E-04	1.5E-03	1.3E-02	4.1E-03	2.5E-02
SS Q 09	4.9E-03	1.1E-04	3.2E-04	2.3E-03	1.3E-02	4.6E-03	2.5E-02
SS Q 10	1.8E-03	3.0E-04	4.4E-04	1.8E-03	1.8E-02	6.3E-03	2.9E-02
SS Q 11	2.9E-03	7.5E-04	4.4E-04	1.3E-03	2.2E-02	6.3E-03	3.3E-02
SS Q 12	3.8E-05	7.5E-04	4.4E-04	1.6E-03	1.4E-02	5.7E-03	2.3E-02
SS Q 13	1.7E-03	6.0E-04	4.4E-04	1.4E-03	2.3E-02	6.4E-03	3.4E-02
SS Q 14	1.2E-02	7.5E-04	4.4E-04	2.0E-03	4.7E-02	7.7E-03	7.0E-02
SS Q 15	6.8E-03	9.2E-04	3.9E-04	1.9E-03	2.2E-02	5.7E-03	3.8E-02
SS Q 16	1.7E-02	2.9E-04	4.2E-04	2.0E-03	3.8E-02	7.5E-03	6.5E-02
SS Q 17	1.6E-02	6.4E-04	3.8E-04	3.4E-03	4.8E-02	6.1E-03	7.5E-02
SS Q 18	1.7E-02	6.0E-04	4.4E-04	2.7E-03	4.6E-02	6.8E-03	7.3E-02
SS Q 19	1.0E-02	6.7E-04	3.9E-04	1.6E-03	3.2E-02	6.4E-03	5.1E-02
SS Q 20	5.9E-02	2.1E-03	4.3E-04	7.9E-04	6.2E-01	5.2E-02	7.3E-01
SS Q 21	2.8E-02	7.3E-04	4.3E-04	1.3E-03	3.8E-02	8.6E-03	7.7E-02
SS Q 22	5.1E-02	1.4E-04	4.2E-04	1.5E-03	3.3E-02	8.0E-03	9.4E-02
SS Q 23	2.3E-02	1.7E-03	4.5E-04	1.0E-03	9.0E-02	1.3E-02	1.3E-01
SS Q 24	2.9E-02	4.7E-04	4.6E-04	2.4E-03	1.2E-01	1.1E-02	1.7E-01
SS Q 25	1.6E-02	2.1E-04	3.1E-04	1.4E-03	4.8E-02	6.1E-03	7.1E-02
SS Q 26	1.6E-02	3.0E-04	2.9E-04	6.9E-04	3.2E-02	6.0E-03	5.5E-02
SS Q 27	6.7E-02	3.0E-04	2.9E-04	1.1E-03	2.7E-02	5.2E-03	1.0E-01
SS Q 28	2.4E-02	6.7E-05	3.9E-04	6.1E-04	3.9E-02	8.4E-03	7.2E-02
SS Q 29	1.1E-02	1.2E-03	3.6E-04	1.5E-03	4.6E-02	7.9E-03	6.7E-02
SS Q 30	9.6E-03	5.7E-05	3.4E-04	1.3E-03	3.1E-02	8.7E-03	5.1E-02
SS Q 31	9.4E-03	6.3E-05	3.7E-04	1.3E-03	3.3E-02	9.8E-03	5.4E-02
SS Q 32	5.3E-03	7.5E-04	4.4E-04	1.5E-03	3.6E-02	1.0E-02	5.4E-02
SS Q 33	3.6E-03	1.4E-03	4.6E-04	1.1E-03	2.5E-02	7.6E-03	3.9E-02
SS R 01	3.4E-03	6.2E-05	3.7E-04	9.0E-04	1.9E-02	5.3E-03	2.9E-02
SS R 02	2.5E-03	5.1E-05	3.0E-04	1.7E-03	1.5E-02	3.8E-03	2.3E-02
SS R 03	3.5E-03	5.0E-05	3.0E-04	1.5E-03	1.8E-02	5.0E-03	2.9E-02
SS R 04	3.9E-03	5.9E-05	3.5E-04	1.8E-03	2.4E-02	6.7E-03	3.7E-02
SS R 05	4.8E-03	6.5E-05	3.8E-04	2.5E-03	2.7E-02	7.2E-03	4.2E-02
SS R 06	7.6E-03	5.4E-05	3.2E-04	1.4E-03	1.9E-02	4.6E-03	3.3E-02
SS R 07	4.9E-03	5.2E-05	3.1E-04	2.9E-03	1.9E-02	5.1E-03	3.3E-02
SS R 08	6.0E-03	6.1E-05	3.6E-04	3.0E-03	2.1E-02	5.9E-03	3.6E-02
SS R 09	1.9E-03	6.7E-05	4.0E-04	1.4E-03	2.2E-02	7.1E-03	3.3E-02
SS R 10	3.1E-03	7.5E-05	4.4E-04	1.3E-03	2.2E-02	7.6E-03	3.4E-02
SS R 11	2.2E-03	7.5E-05	4.4E-04	1.8E-03	2.6E-02	7.2E-03	3.8E-02
SS R 12	1.1E-03	7.2E-05	4.3E-04	1.5E-03	1.9E-02	6.0E-03	2.8E-02
SS R 13	1.2E-03	7.1E-05	4.2E-04	1.5E-03	3.0E-02	6.8E-03	4.0E-02
SS R 14	1.6E-03	6.0E-03	4.3E-04	2.3E-03	3.9E-01	5.4E-02	4.6E-01
SS R 15	5.1E-03	2.1E-02	5.1E-04	1.8E-03	1.5E+00	2.1E-01	1.7E+00
SS R 16	1.4E-03	7.4E-03	3.9E-04	1.7E-03	4.9E-01	7.5E-02	5.8E-01
SS R 17	9.1E-03	6.5E-05	3.8E-04	9.5E-04	5.4E-02	8.1E-03	7.3E-02
SS R 18	1.0E-02	2.1E-03	4.2E-04	2.9E-03	1.2E-01	7.8E-04	1.4E-01

Data 6-10

Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(10)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS R 19	9.4E-03	7.5E-05	4.4E-04	1.3E-03	4.8E-02	9.4E-03	6.8E-02
SS R 20	1.7E-02	7.5E-05	4.4E-04	2.8E-03	4.8E-02	1.5E-02	8.3E-02
SS R 21	1.8E-02	7.5E-05	4.4E-04	4.9E-03	3.7E-02	9.0E-03	6.9E-02
SS R 22	2.7E-02	7.5E-05	4.4E-04	3.4E-03	6.2E-02	1.3E-02	1.1E-01
SS R 23	2.8E-02	7.3E-05	4.3E-04	1.2E-03	3.6E-02	8.6E-03	7.4E-02
SS R 24	3.6E-02	7.3E-05	4.3E-04	5.5E-04	2.4E-02	7.5E-03	6.9E-02
SS R 25	3.1E-01	3.1E-03	3.3E-04	8.9E-04	2.6E-02	6.0E-03	3.5E-01
SS R 26	8.0E-02	1.0E-03	2.9E-04	8.0E-04	2.2E-02	4.2E-03	1.1E-01
SS R 27	5.7E-02	5.3E-05	3.1E-04	9.3E-04	2.0E-02	6.0E-03	8.4E-02
SS R 28	3.4E-02	7.1E-05	4.2E-04	1.4E-03	4.0E-02	9.1E-03	8.4E-02
SS R 29	1.2E-02	5.0E-05	3.0E-04	1.3E-03	1.8E-02	4.6E-03	3.7E-02
SS R 30	1.5E-02	5.0E-05	2.9E-04	1.2E-03	2.3E-02	4.0E-03	4.4E-02
SS R 31	4.9E-03	5.8E-05	3.4E-04	9.1E-04	2.3E-02	7.0E-03	3.6E-02
SS R 32	5.4E-03	7.4E-05	4.4E-04	1.0E-03	4.5E-02	9.2E-03	6.1E-02
SS R 33	5.5E-03	7.5E-05	4.4E-04	9.6E-04	2.6E-02	6.7E-03	3.9E-02
SS S 01	6.1E-03	6.0E-05	3.5E-04	2.6E-03	1.5E-02	4.3E-03	2.8E-02
SS S 02	2.6E-03	5.6E-05	3.3E-04	2.7E-03	1.5E-02	3.9E-03	2.5E-02
SS S 03	3.6E-03	5.7E-05	3.4E-04	8.3E-04	1.5E-02	5.2E-03	2.5E-02
SS S 04	2.6E-03	5.3E-05	3.1E-04	3.5E-03	4.4E-02	6.5E-03	5.7E-02
SS S 05	3.9E-03	2.1E-03	3.2E-04	3.4E-03	6.5E-02	1.6E-02	9.1E-02
SS S 06	5.7E-03	3.8E-03	3.0E-04	2.5E-03	1.3E-01	3.1E-02	1.8E-01
SS S 07	7.4E-03	5.9E-03	3.3E-04	2.6E-03	3.0E-01	5.2E-02	3.7E-01
SS S 08	7.9E-03	4.0E-03	3.9E-04	3.4E-03	1.5E-01	3.1E-02	1.9E-01
SS S 09	1.9E-02	1.2E-02	4.1E-04	2.1E-03	6.3E-01	9.9E-02	7.7E-01
SS S 10	2.7E-02	1.2E-02	4.2E-04	1.7E-03	8.4E-01	1.2E-01	1.0E+00
SS S 11	1.4E-02	1.2E-02	4.0E-04	2.3E-03	5.4E-01	1.1E-01	6.7E-01
SS S 12	1.8E-02	9.3E-03	3.5E-04	1.9E-03	5.2E-01	8.6E-02	6.3E-01
SS S 13	4.5E-02	9.1E-03	3.8E-04	1.7E-03	6.7E-01	9.2E-02	8.2E-01
SS S 14	1.7E-02	5.7E-03	4.2E-04	2.3E-03	3.4E-01	5.1E-02	4.1E-01
SS S 15	5.6E-02	1.4E-02	3.7E-04	1.4E-03	9.6E-01	1.5E-01	1.2E+00
SS S 16	2.5E-02	6.7E-03	3.7E-04	1.7E-03	4.0E-01	6.8E-02	5.1E-01
SS S 17	5.9E-02	9.6E-03	4.0E-04	1.2E-03	8.8E-01	1.0E-01	1.0E+00
SS S 18	1.1E-02	4.1E-03	4.1E-04	2.6E-03	2.2E-01	3.4E-02	2.7E-01
SS S 19	8.4E-03	6.5E-05	3.8E-04	1.5E-03	2.7E-02	7.0E-03	4.4E-02
SS S 20	1.2E-02	6.7E-05	3.9E-04	3.2E-03	3.1E-02	7.0E-03	5.3E-02
SS S 21	4.0E-02	1.2E-03	4.4E-04	5.6E-04	1.6E-02	7.7E-03	6.6E-02
SS S 22	4.4E-02	1.1E-03	4.4E-04	2.7E-03	3.5E-02	1.1E-02	9.3E-02
SS S 23	5.6E-01	3.5E-03	4.4E-04	1.7E-03	2.5E-02	7.7E-03	6.0E-01
SS S 24	1.0E-01	1.0E-03	4.4E-04	1.4E-03	3.0E-02	7.1E-03	1.4E-01
SS S 25	8.8E-02	9.9E-04	3.6E-04	2.1E-03	2.4E-02	9.1E-03	1.2E-01
SS S 26	9.1E-02	1.0E-03	3.4E-04	8.3E-04	1.4E-02	5.2E-03	1.1E-01
SS S 27	8.8E-02	1.0E-03	3.8E-04	7.2E-04	2.4E-02	8.0E-03	1.2E-01
SS S 28	7.8E-03	1.2E-03	3.4E-04	2.2E-03	2.4E-02	6.5E-03	4.2E-02
SS S 29	3.0E-03	5.0E-05	2.9E-04	2.2E-03	1.7E-02	4.2E-03	2.7E-02
SS S 30	6.1E-03	1.2E-03	3.0E-04	1.5E-03	5.0E-02	8.5E-03	6.8E-02
SS S 31	9.1E-03	1.5E-03	3.9E-04	1.2E-03	9.6E-02	1.1E-02	1.2E-01
SS S 32	5.9E-03	7.5E-05	4.4E-04	8.0E-04	3.2E-02	1.1E-02	5.0E-02
SS S 33	1.5E-02	1.8E-03	4.4E-04	9.0E-04	3.3E-02	1.1E-02	6.3E-02
SS T 01	5.1E-03	1.2E-03	3.4E-04	2.5E-03	2.4E-02	7.0E-03	4.0E-02
SS T 02	4.7E-03	1.4E-03	3.9E-04	4.5E-03	3.4E-02	9.0E-03	5.4E-02
SS T 03	3.0E-03	1.6E-03	3.9E-04	5.3E-03	3.6E-02	1.2E-02	5.8E-02

Data 6-10

Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(11)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS T 04	3.0E-03	1.2E-03	3.2E-04	3.8E-03	3.2E-02	9.8E-03	5.0E-02
SS T 05	1.5E-02	1.2E-02	3.6E-04	2.9E-03	5.7E-01	1.0E-01	7.0E-01
SS T 06	1.9E-02	8.1E-03	3.9E-04	1.9E-03	3.7E-01	6.7E-02	4.7E-01
SS T 07	1.8E-02	8.0E-03	4.2E-04	1.7E-03	3.0E-01	6.5E-02	3.9E-01
SS T 08	1.8E-02	5.0E-03	3.9E-04	1.0E-03	3.0E-01	4.5E-02	3.7E-01
SS T 09	4.0E-02	1.4E-02	4.2E-04	1.3E-03	7.4E-01	1.2E-01	9.2E-01
SS T 10	1.2E-02	1.3E-02	4.4E-04	1.6E-03	6.1E-01	1.1E-01	7.4E-01
SS T 11	1.5E-02	3.6E-03	4.1E-04	2.4E-03	2.0E-01	3.4E-02	2.6E-01
SS T 12	9.8E-03	7.2E-05	4.2E-04	1.3E-03	2.2E-02	7.4E-03	4.1E-02
SS T 13	8.1E-03	7.4E-05	4.4E-04	1.2E-03	2.1E-02	7.5E-03	3.8E-02
SS T 14	1.7E-02	7.2E-05	4.2E-04	1.1E-03	1.8E-02	7.1E-03	4.4E-02
SS T 15	1.6E-03	7.6E-05	4.5E-04	1.0E-03	1.4E-02	6.2E-03	2.4E-02
SS T 16	4.6E-03	9.2E-05	5.4E-04	1.3E-03	3.0E-02	1.3E-02	4.9E-02
SS T 17	6.3E-03	6.8E-05	4.0E-04	5.2E-04	1.7E-02	7.1E-03	3.1E-02
SS T 18	1.7E-02	6.9E-05	4.1E-04	1.1E-03	2.2E-02	7.4E-03	4.8E-02
SS T 19	1.0E-02	2.0E-03	4.0E-04	1.3E-03	1.4E-01	2.0E-02	1.8E-01
SS T 20	1.1E-02	1.6E-03	3.6E-04	1.2E-03	1.3E-01	1.7E-02	1.7E-01
SS T 21	3.9E-02	6.9E-05	4.1E-04	1.6E-03	1.4E-01	2.3E-02	2.1E-01
SS T 22	7.9E-02	7.4E-05	4.3E-04	1.2E-03	1.5E-02	6.1E-03	1.0E-01
SS T 23	2.6E-01	7.4E-05	4.4E-04	8.5E-04	1.4E-02	5.5E-03	2.8E-01
SS T 24	5.1E-01	3.3E-03	4.4E-04	2.0E-03	2.3E-02	8.1E-03	5.4E-01
SS T 25	2.0E-02	7.5E-05	4.4E-04	1.4E-03	1.8E-02	7.7E-03	4.8E-02
SS T 26	4.3E-02	7.1E-05	4.2E-04	7.6E-04	1.4E-02	5.8E-03	6.4E-02
SS T 27	2.3E-02	7.1E-05	4.2E-04	1.4E-03	2.9E-02	8.5E-03	6.3E-02
SS T 28	5.7E-03	6.1E-05	3.6E-04	3.3E-03	1.5E-02	5.0E-03	2.9E-02
SS T 29	5.3E-03	5.0E-05	2.9E-04	1.8E-03	1.5E-02	4.1E-03	2.7E-02
SS T 30	6.8E-03	5.6E-05	3.3E-04	1.4E-03	2.1E-02	5.7E-03	3.5E-02
SS T 31	8.7E-03	7.5E-05	4.4E-04	1.0E-03	2.8E-02	8.7E-03	4.7E-02
SS T 32	6.3E-02	7.5E-05	4.4E-04	5.2E-04	2.7E-02	1.0E-02	1.0E-01
SS T 33	6.3E-02	7.5E-05	4.4E-04	5.2E-04	2.7E-02	1.0E-02	1.0E-01
SS U 01	1.7E-03	6.1E-05	3.6E-04	1.7E-03	2.8E-02	6.1E-03	3.8E-02
SS U 02	4.4E-03	2.8E-03	3.3E-04	2.7E-03	1.2E-01	2.6E-02	1.5E-01
SS U 03	6.7E-03	3.6E-03	3.5E-04	2.4E-03	1.5E-01	3.2E-02	2.0E-01
SS U 04	1.1E-02	4.4E-03	3.9E-04	1.8E-03	1.8E-01	4.6E-02	2.4E-01
SS U 05	9.3E-03	5.7E-03	4.0E-04	2.2E-03	2.4E-01	5.4E-02	3.1E-01
SS U 06	1.8E-03	6.0E-05	3.5E-04	1.1E-03	3.2E-02	9.1E-03	4.5E-02
SS U 07	1.1E-02	7.8E-05	4.6E-04	2.0E-03	3.0E-02	1.3E-02	5.7E-02
SS U 08	8.5E-03	7.6E-05	4.5E-04	2.0E-03	1.7E-02	5.3E-03	3.3E-02
SS U 09	2.1E-02	7.5E-05	4.4E-04	2.5E-03	2.4E-02	1.0E-02	5.8E-02
SS U 10	3.0E-02	7.5E-05	4.4E-04	2.1E-03	3.3E-02	1.2E-02	7.7E-02
SS U 11	2.4E-02	7.5E-05	4.4E-04	2.0E-03	3.0E-02	1.1E-02	6.8E-02
SS U 12	9.1E-03	1.6E-03	4.4E-04	2.1E-03	3.0E-02	7.0E-03	5.0E-02
SS U 13	6.2E-03	1.5E-03	4.4E-04	1.5E-03	4.5E-02	9.9E-03	6.4E-02
SS U 14	6.8E-03	7.5E-05	4.4E-04	1.2E-03	5.7E-02	8.4E-03	7.4E-02
SS U 15	5.6E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.9E-02
SS U 16	3.0E-03	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	5.7E-02
SS U 17	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.8E-02	3.5E-03	3.8E-02
SS U 18	1.1E-02	1.6E-03	4.4E-04	1.2E-03	4.5E-02	5.6E-03	6.5E-02
SS U 19	8.3E-03	1.6E-03	4.3E-04	1.1E-03	4.4E-02	5.5E-03	6.1E-02
SS U 20	5.0E-03	6.8E-05	4.0E-04	9.9E-04	1.6E-02	6.7E-03	2.9E-02
SS U 21	3.0E-02	7.0E-05	4.1E-04	1.2E-03	1.8E-02	8.2E-03	5.8E-02

Data 6-10 Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(12)

(E: Exponent)

400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS U 22	1.2E-02	1.8E-03	3.8E-04	2.3E-03	1.6E-01	2.3E-02	2.0E-01
SS U 23	4.6E-02	1.5E-03	4.2E-04	9.6E-04	2.3E-01	2.8E-02	3.0E-01
SS U 24	1.3E-01	6.8E-05	4.0E-04	1.1E-03	2.5E-02	9.1E-03	1.6E-01
SS U 25	5.3E-02	7.4E-05	4.4E-04	9.1E-04	1.4E-02	4.4E-03	7.2E-02
SS U 26	8.4E-02	7.5E-05	4.4E-04	6.0E-04	1.3E-02	4.3E-03	1.0E-01
SS U 27	5.3E-01	1.4E-03	4.4E-04	8.2E-04	1.7E-02	4.4E-03	5.6E-01
SS U 28	8.2E-03	6.9E-05	4.0E-04	2.3E-03	1.4E-01	1.2E-02	1.6E-01
SS U 29	1.1E-02	6.1E-05	3.6E-04	2.0E-03	2.8E-02	6.0E-03	4.7E-02
SS U 30	7.0E-02	7.5E-05	4.4E-04	5.3E-04	2.0E-02	9.6E-03	1.0E-01
SS U 31	7.0E-02	7.5E-05	4.4E-04	5.3E-04	2.0E-02	9.6E-03	1.0E-01
SS U 32	8.5E-02	7.5E-05	4.4E-04	8.5E-04	1.7E-02	7.6E-03	1.1E-01
SS U 33	6.0E-02	7.5E-05	4.4E-04	1.2E-03	2.3E-02	7.1E-03	9.1E-02
SS V 01	9.2E-03	2.9E-03	4.0E-04	2.2E-03	1.8E-01	3.0E-02	2.2E-01
SS V 02	1.3E-02	4.3E-03	3.5E-04	2.4E-03	2.1E-01	5.7E-02	2.9E-01
SS V 03	1.2E-02	3.4E-03	3.3E-04	2.0E-03	1.7E-01	3.9E-02	2.3E-01
SS V 04	1.3E-02	5.1E-03	3.3E-04	1.5E-03	2.2E-01	5.0E-02	2.9E-01
SS V 05	1.7E-02	6.0E-05	3.5E-04	2.7E-03	2.3E-02	1.4E-02	5.7E-02
SS V 06	1.1E-02	6.5E-05	3.8E-04	3.1E-03	2.2E-02	8.7E-03	4.5E-02
SS V 07	2.9E-02	7.4E-05	4.4E-04	2.3E-03	2.4E-02	1.2E-02	6.7E-02
SS V 08	1.3E-02	6.0E-05	3.5E-04	1.8E-03	2.0E-02	5.8E-03	4.1E-02
SS V 09	1.4E-02	6.2E-05	3.6E-04	2.0E-03	1.8E-02	6.6E-03	4.1E-02
SS V 10	1.5E-02	6.2E-05	3.6E-04	2.5E-03	1.7E-02	9.3E-03	4.4E-02
SS V 11	5.2E-03	7.1E-05	4.2E-04	7.1E-04	1.7E-02	6.0E-03	3.0E-02
SS V 12	8.5E-03	7.2E-05	4.2E-04	6.0E-04	1.8E-02	5.8E-03	3.3E-02
SS V 13	5.0E-03	7.5E-05	4.4E-04	7.3E-04	2.2E-02	5.4E-03	3.4E-02
SS V 14	8.0E-03	7.5E-05	4.4E-04	8.6E-04	1.4E-02	6.6E-03	3.0E-02
SS V 15	2.8E-03	7.5E-05	4.4E-04	1.1E-03	7.9E-03	5.5E-03	1.8E-02
SS V 16	1.2E-02	7.5E-05	4.4E-04	2.6E-04	2.8E-02	4.6E-03	4.6E-02
SS V 17	5.6E-03	7.5E-05	4.4E-04	4.2E-03	1.8E-02	6.5E-03	3.5E-02
SS V 18	5.1E-03	7.5E-05	4.4E-04	1.9E-03	2.3E-02	7.8E-03	3.9E-02
SS V 19	1.5E-03	7.5E-05	4.4E-04	8.7E-04	1.3E-02	7.2E-03	2.3E-02
SS V 20	5.6E-03	7.5E-05	4.4E-04	1.5E-03	1.5E-02	7.1E-03	3.0E-02
SS V 21	2.2E-02	7.5E-05	4.4E-04	9.8E-04	1.6E-02	6.8E-03	4.6E-02
SS V 22	4.5E-03	7.2E-05	4.3E-04	1.1E-03	1.5E-02	7.2E-03	2.8E-02
SS V 23	6.6E-03	6.4E-05	3.8E-04	1.3E-03	2.2E-02	6.7E-03	3.7E-02
SS V 24	1.2E-02	2.6E-03	3.9E-04	1.4E-03	2.9E-01	3.1E-02	3.4E-01
SS V 25	2.9E-02	1.7E-03	5.0E-04	1.6E-03	1.6E-01	2.3E-02	2.1E-01
SS V 26	8.7E-02	9.3E-05	5.4E-04	1.8E-03	7.9E-02	1.4E-02	1.8E-01
SS V 27	6.3E-02	7.1E-05	4.2E-04	7.9E-04	2.5E-02	5.6E-03	9.5E-02
SS V 28	2.7E-02	2.6E-03	4.3E-04	1.5E-03	3.3E-01	3.8E-02	4.0E-01
SS V 29	7.6E-02	7.2E-05	4.2E-04	1.3E-03	1.8E-02	9.3E-03	1.1E-01
SS V 30	3.4E-02	7.5E-05	4.4E-04	7.9E-03	2.7E-02	7.8E-03	7.7E-02
SS V 31	5.3E-02	7.5E-05	4.4E-04	3.7E-03	2.1E-02	8.2E-03	8.7E-02
SS V 32	5.0E-02	7.5E-05	4.4E-04	1.1E-03	2.9E-02	6.9E-03	8.8E-02
SS V 33	1.3E-02	7.4E-05	4.4E-04	1.5E-03	2.1E-02	6.7E-03	4.3E-02
SS W 01	2.6E-02	1.0E-02	4.1E-04	1.7E-03	4.6E-01	8.3E-02	5.8E-01
SS W 02	1.8E-02	7.6E-03	3.0E-04	1.4E-03	3.8E-01	7.0E-02	4.7E-01
SS W 03	1.3E-02	6.0E-05	3.5E-04	1.9E-03	1.9E-02	6.4E-03	4.1E-02
SS W 04	2.0E-02	6.3E-05	3.7E-04	2.4E-03	2.3E-02	5.8E-03	5.2E-02
SS W 05	2.2E-02	6.5E-05	3.8E-04	2.4E-03	2.4E-02	9.9E-03	5.9E-02
SS W 06	1.9E-02	6.7E-05	3.9E-04	2.8E-03	2.7E-02	8.1E-03	5.7E-02

Data 6-10

Exposure Risk of Heavy Metals in Soil, Case -3: Implementation of Alternative-2 in All of Priority No.1 to No.5 Area

(13)

(E: Exponent)

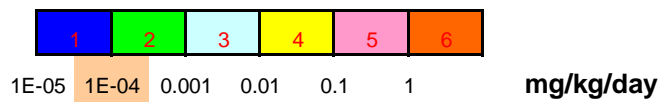
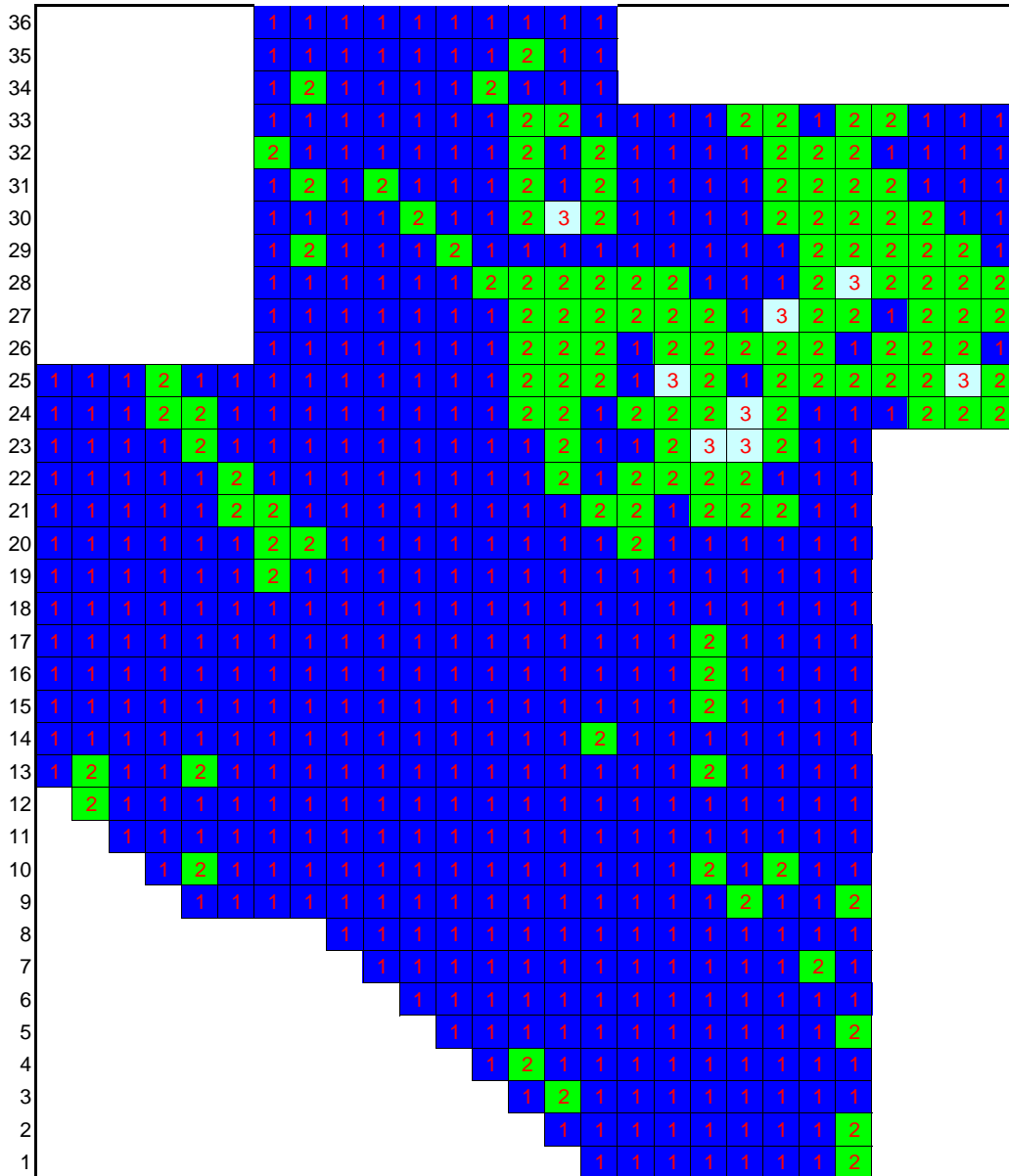
400m Grid No.	Risk by heavy metals (Soil)						
Heavy Metals	As	Cd	Hg	Ni	Pb	Zn	Soil
TDI (mg/kg/day)	0.002	0.001	0.00017	0.012	0.0035	0.021	Total Risk
SS W 07	2.5E-02	7.5E-05	4.4E-04	3.1E-03	2.9E-02	1.1E-02	6.8E-02
SS W 08	2.1E-02	6.6E-05	3.9E-04	2.8E-03	2.5E-02	9.9E-03	6.0E-02
SS W 09	3.5E-02	6.7E-05	3.9E-04	3.2E-04	1.5E-02	4.3E-03	5.4E-02
SS W 10	3.7E-03	5.9E-05	3.4E-04	1.8E-03	1.0E-02	4.3E-03	2.1E-02
SS W 11	2.6E-03	6.1E-05	3.6E-04	1.7E-03	1.2E-02	4.4E-03	2.1E-02
SS W 12	7.6E-03	5.9E-05	3.5E-04	1.2E-03	1.3E-02	3.6E-03	2.6E-02
SS W 13	9.7E-03	7.5E-05	4.4E-04	1.5E-03	2.0E-02	5.0E-03	3.7E-02
SS W 14	4.1E-03	7.5E-05	4.4E-04	1.3E-03	1.6E-02	5.2E-03	2.7E-02
SS W 15	6.8E-03	7.5E-05	4.4E-04	1.3E-03	1.0E-02	5.0E-03	2.4E-02
SS W 16	1.3E-03	7.5E-05	4.4E-04	1.2E-03	9.2E-03	5.1E-03	1.7E-02
SS W 17	2.5E-03	7.5E-05	4.4E-04	1.6E-03	1.8E-02	4.9E-03	2.7E-02
SS W 18	5.5E-03	7.5E-05	4.4E-04	1.0E-03	1.5E-02	4.8E-03	2.7E-02
SS W 19	1.7E-02	7.5E-05	4.4E-04	2.1E-03	1.5E-02	5.7E-03	4.0E-02
SS W 20	1.8E-02	7.5E-05	4.4E-04	1.3E-03	1.2E-02	6.2E-03	3.8E-02
SS W 21	5.5E-03	7.5E-05	4.4E-04	1.6E-03	1.6E-02	6.0E-03	3.0E-02
SS W 22	5.7E-03	7.5E-05	4.4E-04	1.9E-03	1.8E-02	8.3E-03	3.5E-02
SS W 23	1.3E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	9.5E-03	4.1E-02
SS W 24	1.4E-02	6.6E-05	3.9E-04	1.2E-03	1.5E-02	6.9E-03	3.7E-02
SS W 25	5.1E-02	7.2E-05	4.2E-04	2.2E-03	4.0E-02	1.3E-02	1.1E-01
SS W 26	1.3E-02	7.3E-05	4.3E-04	3.1E-03	5.3E-02	1.5E-02	8.4E-02
SS W 27	6.9E-02	7.3E-05	4.3E-04	4.0E-03	1.3E-01	3.1E-02	2.3E-01
SS W 28	2.9E-01	7.1E-05	4.2E-04	4.0E-03	2.1E-02	6.3E-03	3.2E-01
SS W 29	1.4E-01	7.5E-05	4.4E-04	3.5E-02	3.8E-02	1.1E-02	2.2E-01
SS W 30	1.9E-01	7.5E-05	4.4E-04	1.3E-02	2.8E-02	1.1E-02	2.4E-01
SS W 31	4.1E-02	7.5E-05	4.4E-04	1.0E-02	2.3E-02	8.2E-03	8.2E-02
SS W 32	3.4E-02	6.9E-05	4.0E-04	1.2E-03	2.8E-02	1.1E-02	7.5E-02
SS W 33	5.0E-02	7.4E-05	4.4E-04	1.6E-03	3.1E-02	1.1E-02	9.5E-02
SS X 24	1.1E-02	7.5E-05	4.4E-04	1.2E-03	1.7E-02	7.1E-03	3.7E-02
SS X 25	7.3E-02	7.5E-05	4.4E-04	3.0E-03	2.1E-02	8.2E-03	1.1E-01
SS X 26	2.9E-02	7.5E-05	4.4E-04	5.7E-04	1.1E-02	5.0E-03	4.6E-02
SS X 27	1.0E-02	7.0E-05	4.1E-04	3.4E-03	5.2E-02	1.5E-02	8.1E-02
SS X 28	7.0E-02	1.4E-03	4.2E-04	1.7E-02	2.5E-02	6.0E-03	1.2E-01
SS X 29	8.8E-02	6.8E-05	4.0E-04	7.1E-03	2.1E-02	5.3E-03	1.2E-01
SS X 30	6.7E-02	7.2E-05	4.2E-04	4.1E-03	2.4E-02	5.7E-03	1.0E-01
SS X 31	4.4E-02	7.3E-05	4.3E-04	1.2E-03	2.2E-02	5.6E-03	7.3E-02
SS X 32	5.8E-03	7.1E-05	4.2E-04	2.2E-03	1.9E-02	5.4E-03	3.3E-02
SS X 33	3.1E-02	7.3E-05	4.3E-04	7.2E-04	2.2E-02	4.9E-03	5.9E-02
SS Y 24	8.1E-02	7.5E-05	4.4E-04	1.5E-03	2.0E-02	1.3E-02	1.1E-01
SS Y 25	1.7E-01	7.5E-05	4.4E-04	1.2E-03	1.9E-02	9.2E-03	2.0E-01
SS Y 26	7.5E-02	7.5E-05	4.4E-04	1.6E-03	2.7E-02	6.5E-03	1.1E-01
SS Y 27	4.4E-02	7.4E-05	4.3E-04	1.2E-03	2.2E-02	6.9E-03	7.5E-02
SS Y 28	3.4E-02	7.1E-05	4.2E-04	2.3E-03	5.8E-02	1.3E-02	1.1E-01
SS Y 29	3.6E-02	8.6E-05	5.0E-04	3.1E-03	6.2E-02	2.1E-02	1.2E-01
SS Y 30	3.5E-02	7.3E-05	4.3E-04	1.8E-03	3.9E-02	1.2E-02	8.7E-02
SS Y 31	3.9E-02	2.8E-03	7.0E-04	2.4E-03	8.4E-02	4.9E-02	1.8E-01
SS Y 32	1.6E-02	2.9E-03	4.9E-04	2.8E-03	1.1E-01	4.9E-02	1.8E-01
SS Y 33	1.1E-02	2.6E-03	4.4E-04	1.6E-03	6.0E-02	4.1E-02	1.2E-01
SS Z 24	1.0E-01	7.5E-05	4.4E-04	1.9E-03	4.0E-02	2.2E-02	1.7E-01
SS Z 25	2.7E-01	7.5E-05	9.4E-04	7.8E-04	1.2E-01	1.1E-02	4.1E-01
SS Z 26	1.1E-01	7.5E-05	2.1E-03	1.7E-03	8.9E-02	2.3E-02	2.3E-01
SS Z 27	4.8E-02	7.5E-05	4.4E-04	1.5E-03	2.9E-02	8.1E-03	8.8E-02

Data 7 Distribution of Risk Assessment

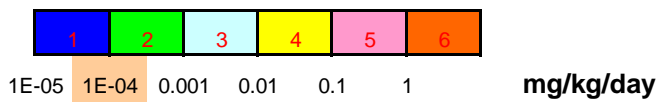
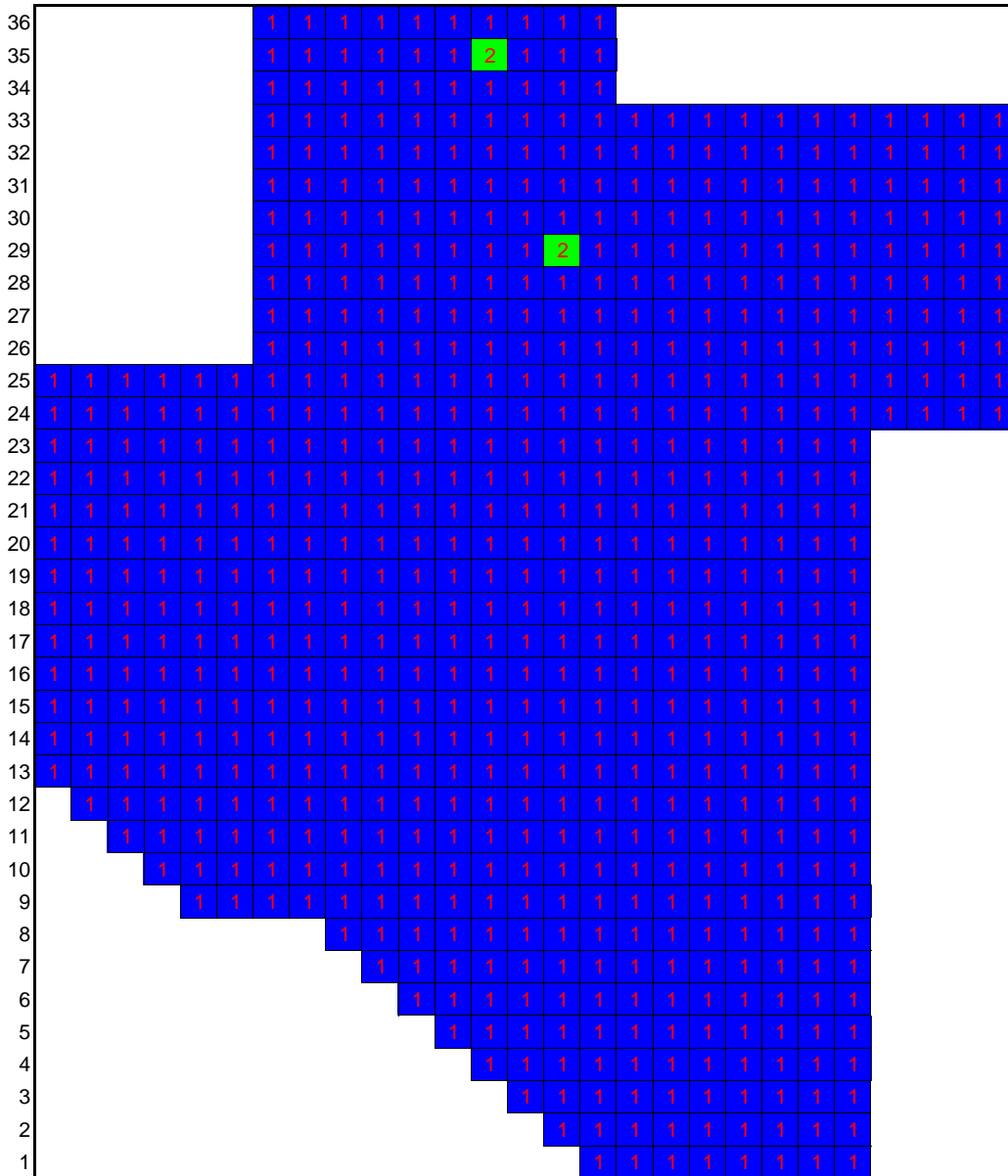
- Data 7-1 Exposure Amount of Heavy Metals in Soil
 by the On-site Risk Assessment**
- Data 7-2 Exposure Amount of Heavy Metals in
 (drinking) Groundwater**
- Data 7-3 Total Exposure Amount of Heavy Metals in
 Soil and (drinking) Groundwater**
- Data 7-4 Exposure Risk of Heavy Metals in Soil**
- Data 7-5 Exposure Risk of Heavy Metals in Soil
 Characterised by Land-use**
- Data 7-6 Exposure Risk of Heavy Metals in
 (drinking) Groundwater**
- Data 7-7 Total Exposure Risk of Heavy Metals in
 Soil and (drinking) Groundwater**
- Data 7-8 Exposure Risk of Heavy Metals in Soil,
 Case -1: Implementation of Alternative-1
 in All of Priority No.1 ~ No.5 Area**
- Data 7-9 Exposure Risk of Heavy Metals in Soil,
 Case -2: Implementation of Alternative-1
 in All of Priority No.1 Area**
- Data 7-10 Exposure Risk of Heavy Metals in Soil,
 Case -3: Implementation of Alternative-2
 in All of Priority No.1 to No.5 Area**

**Data 7-1 Exposure Amount of Heavy Metals in Soil
by the On-site Risk Assessment**

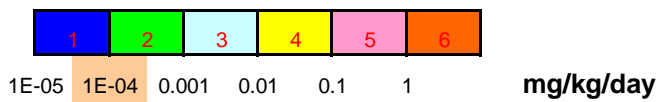
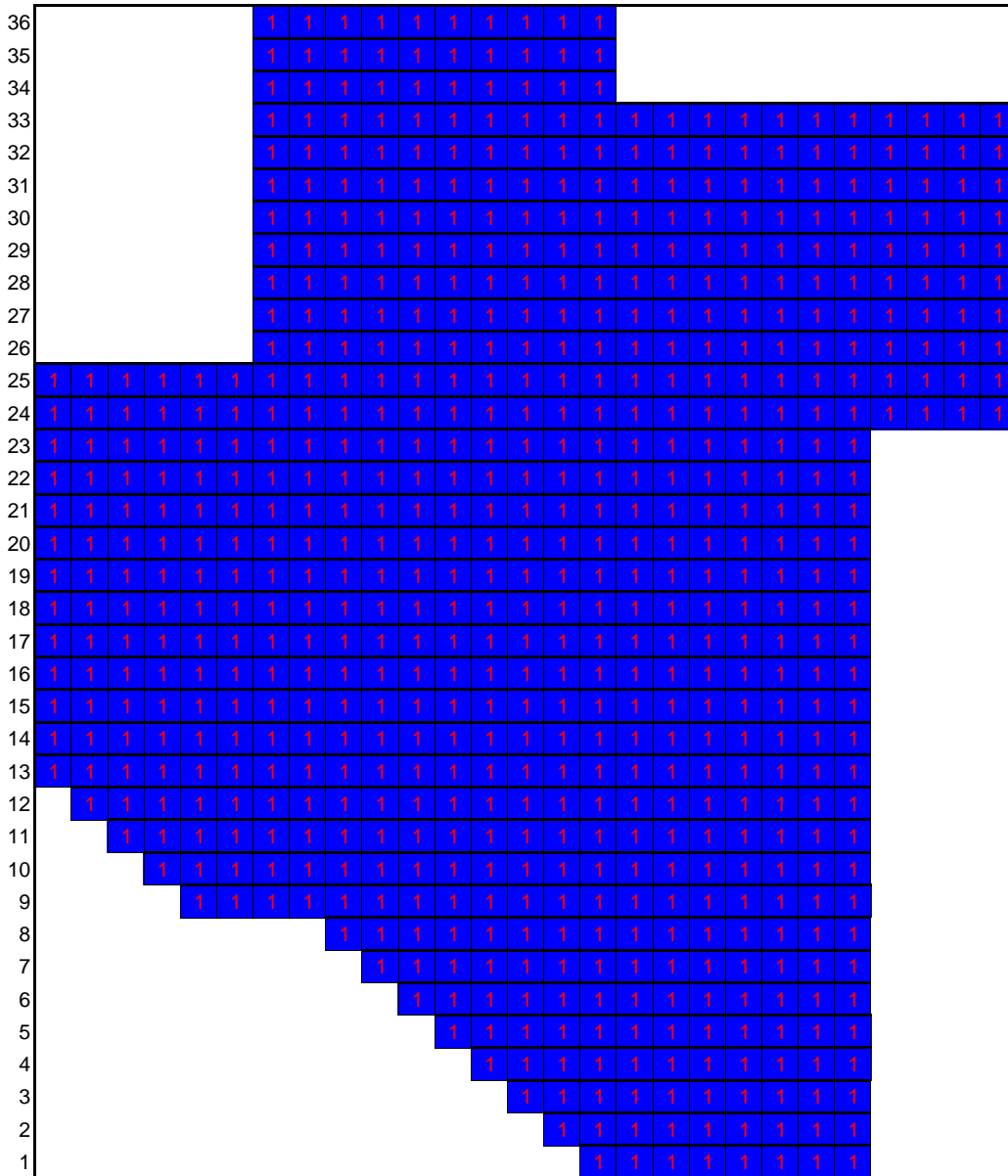
Data 7-1 As : Exposure Amount of Heavy Metals in Soil



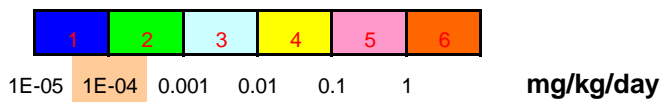
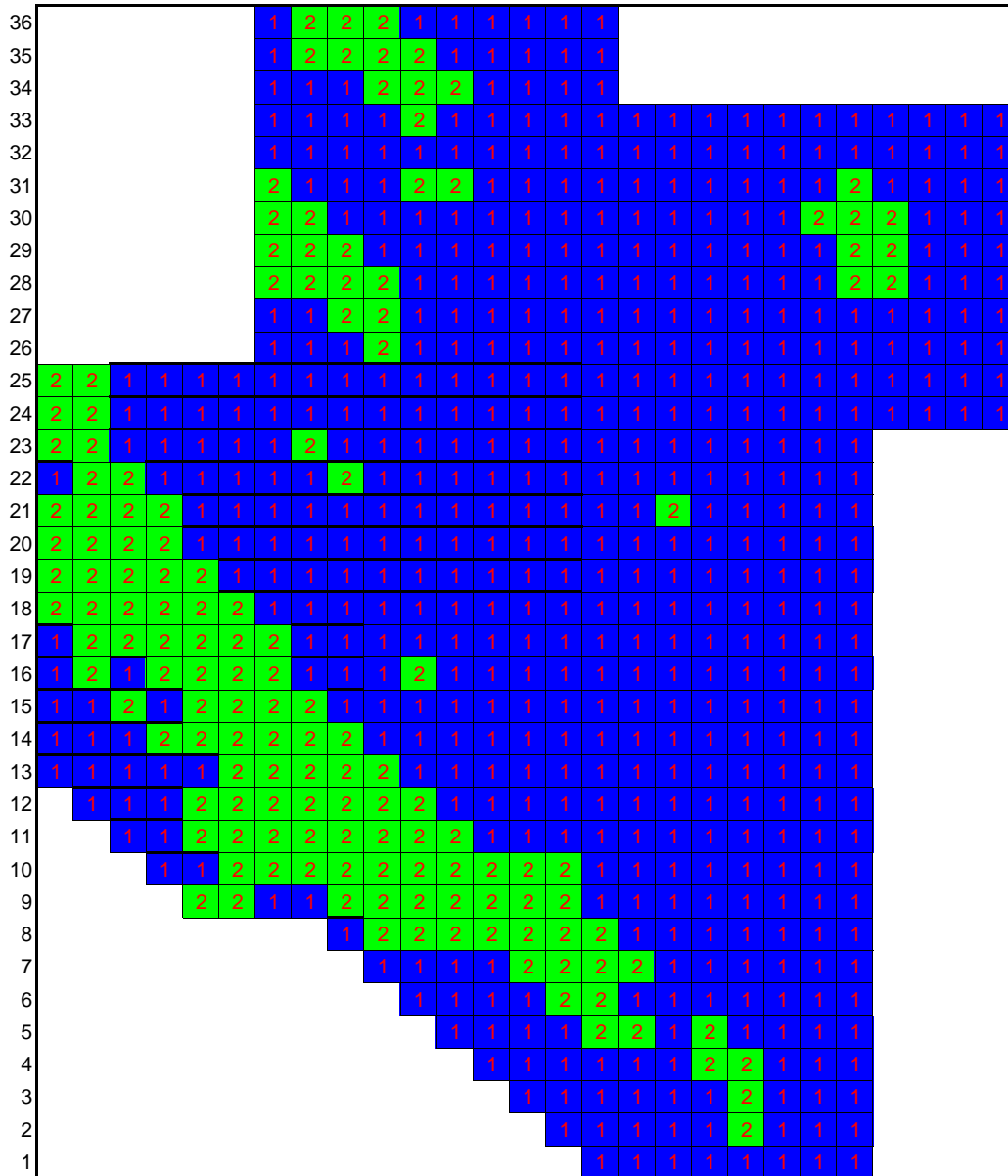
Data 7-1 Cd : Exposure Amount of Heavy Metals in Soil



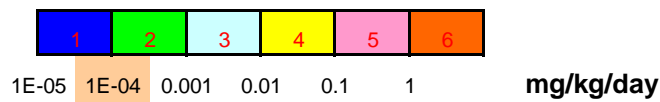
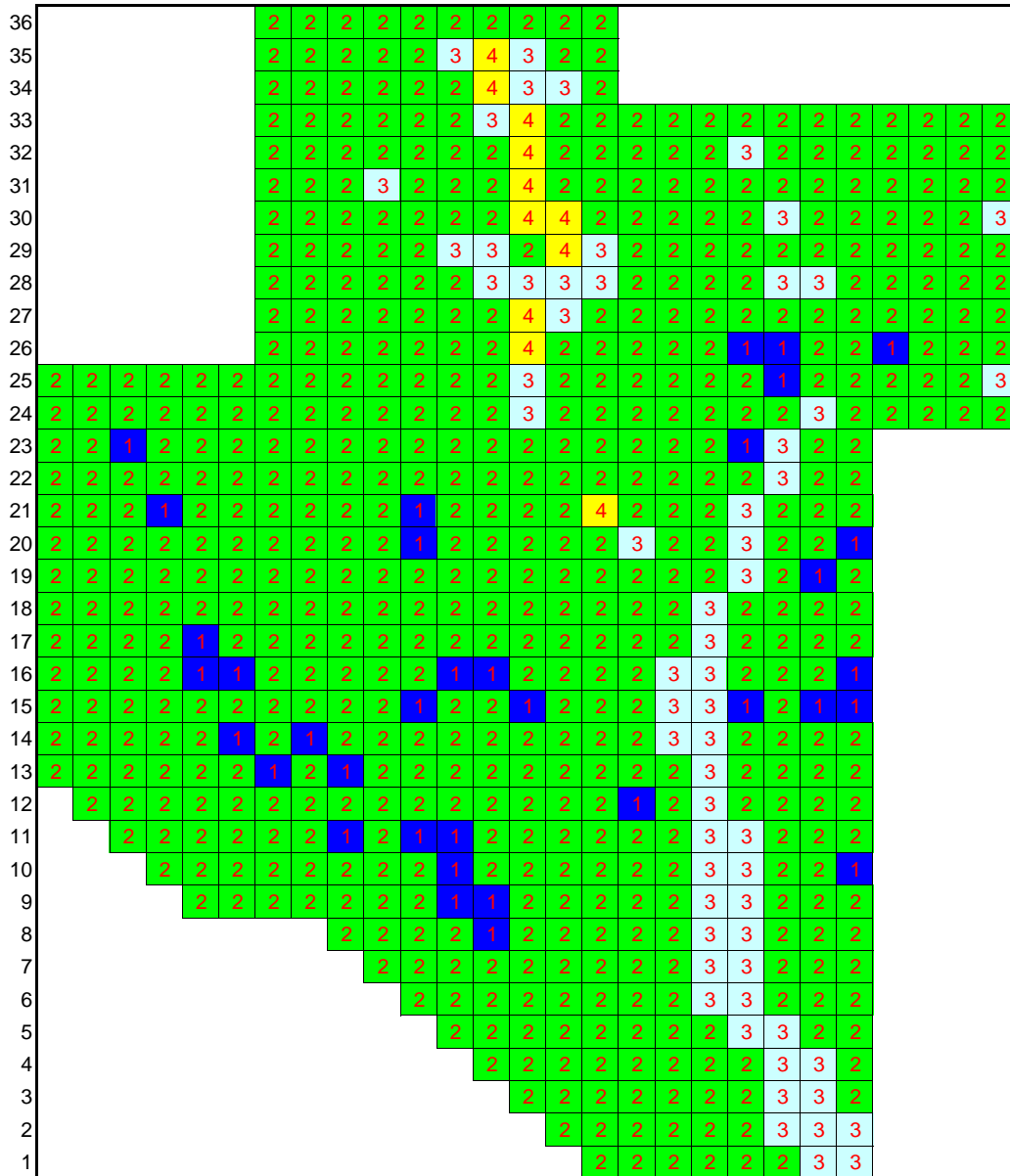
Data 7-1 Hg : Exposure Amount of Heavy Metals in Soil



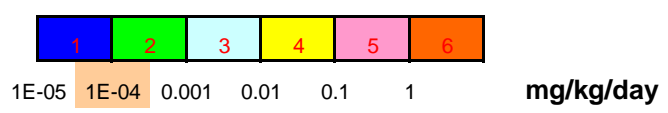
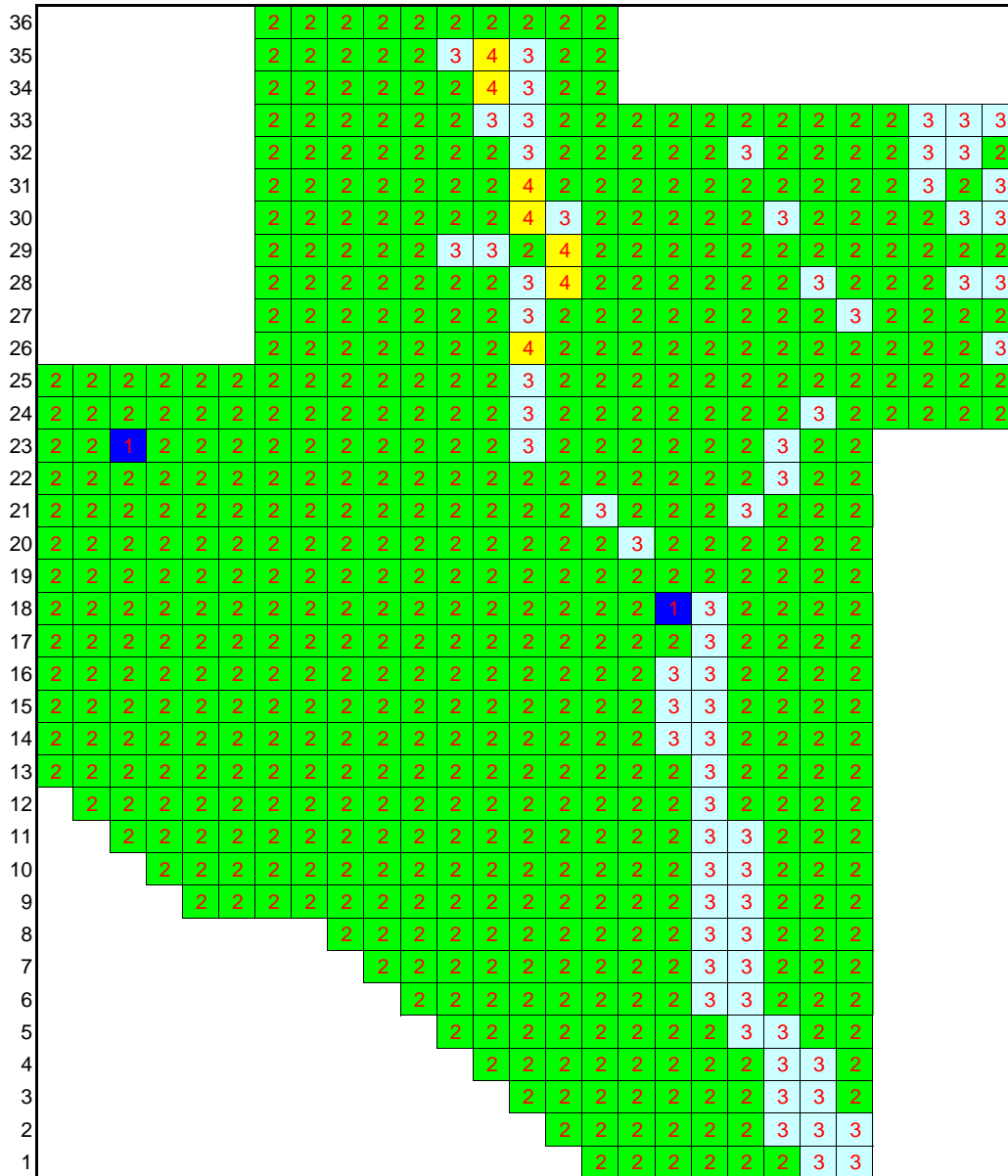
Data 7-1 Ni : Exposure Amount of Heavy Metals in Soil



Data 7-1 Pb : Exposure Amount of Heavy Metals in Soil

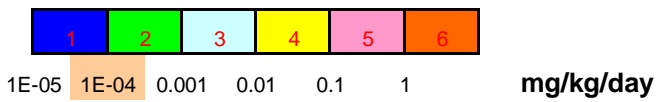
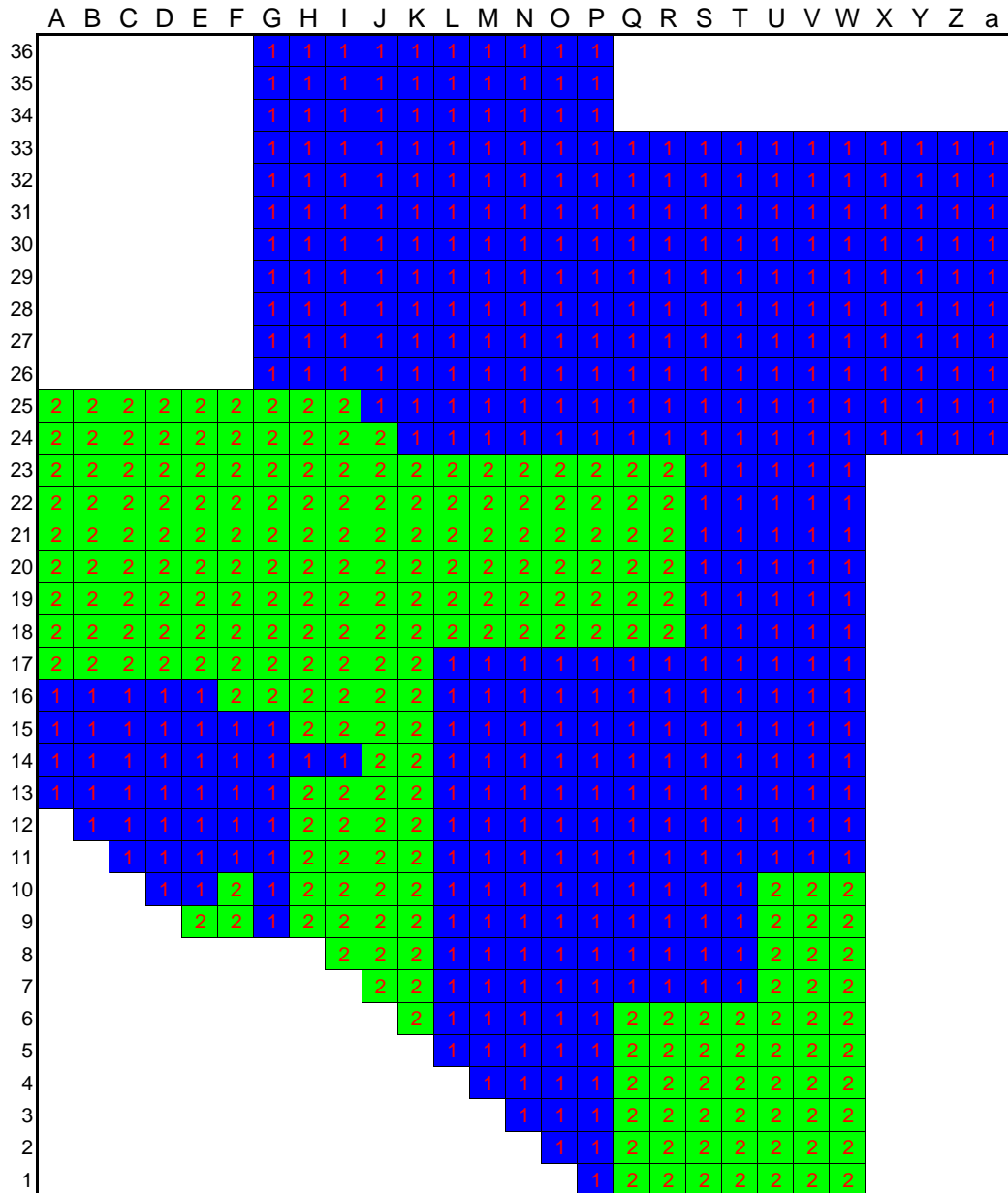


Data 7-1 Zn : Exposure Amount of Heavy Metals in Soil

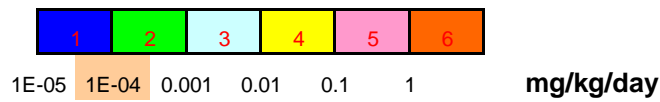
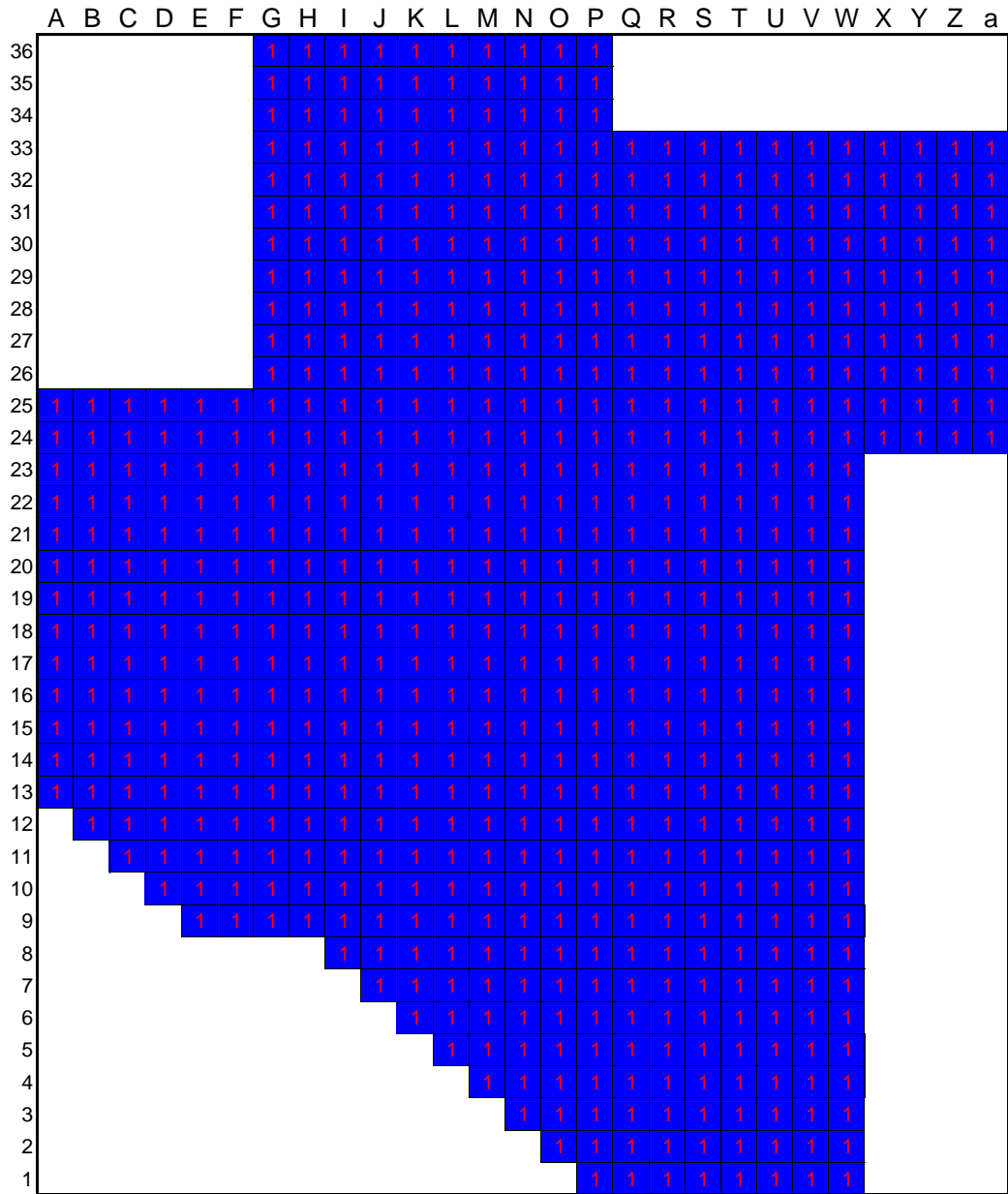


**Data 7-2 Exposure Amount of Heavy Metals in
(drinking) Groundwater**

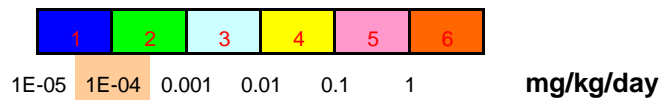
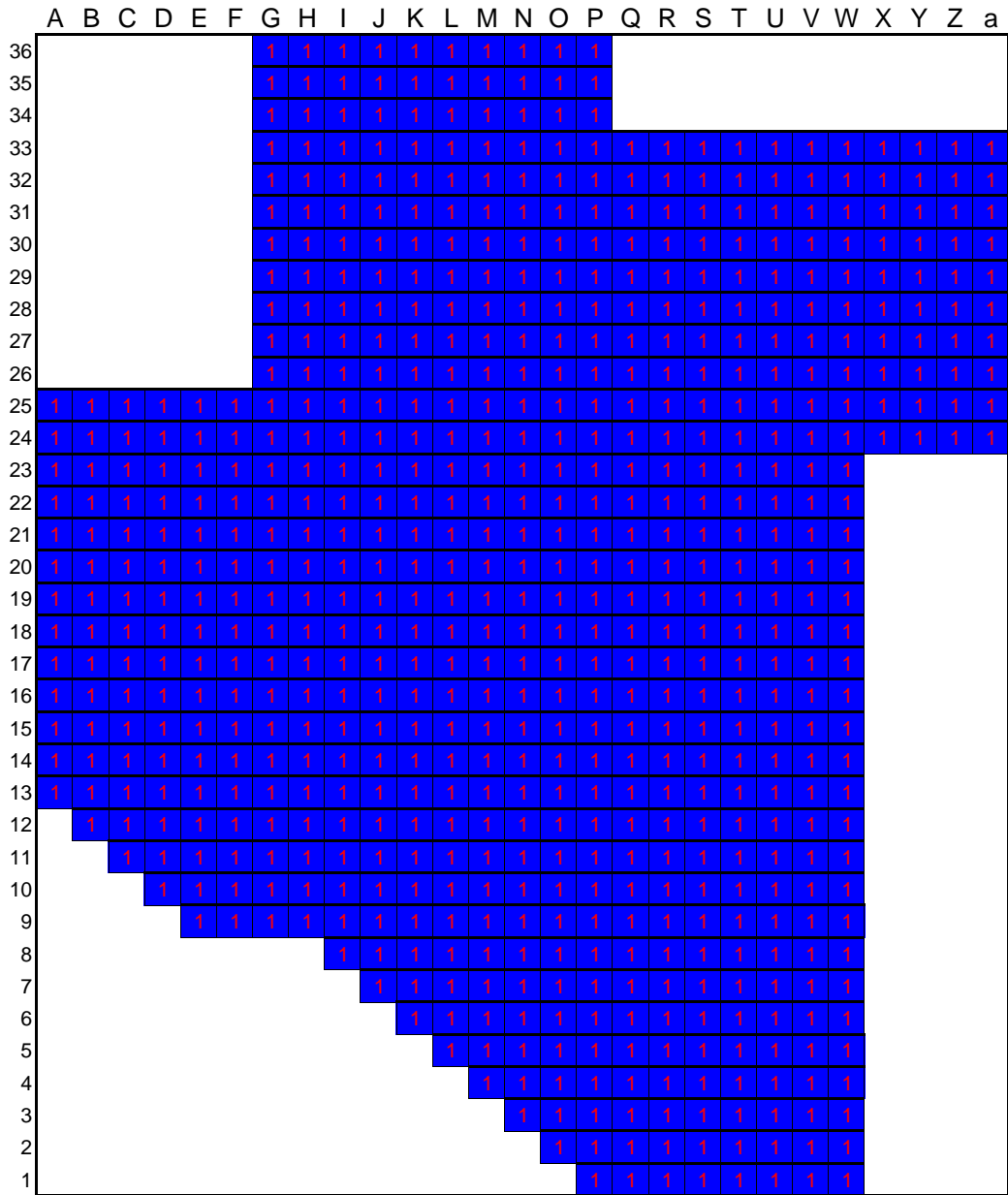
Data 7-2 As : Exposure Amount of Heavy Metals in Groundwater



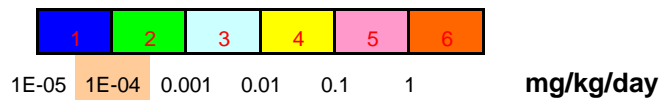
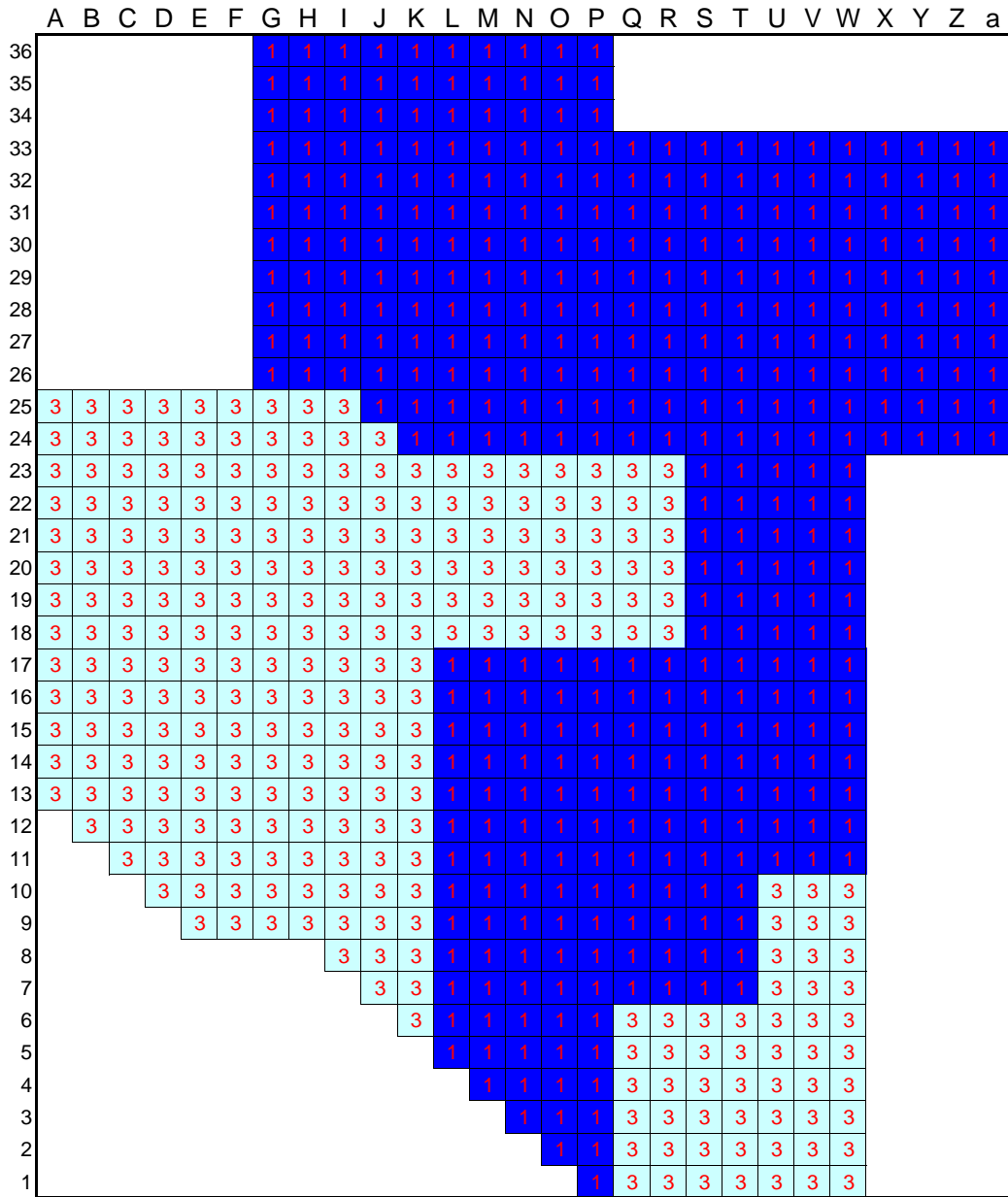
Data 7-2 Cd : Exposure Amount of Heavy Metals in Groundwater



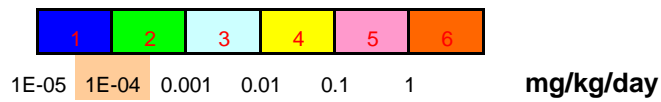
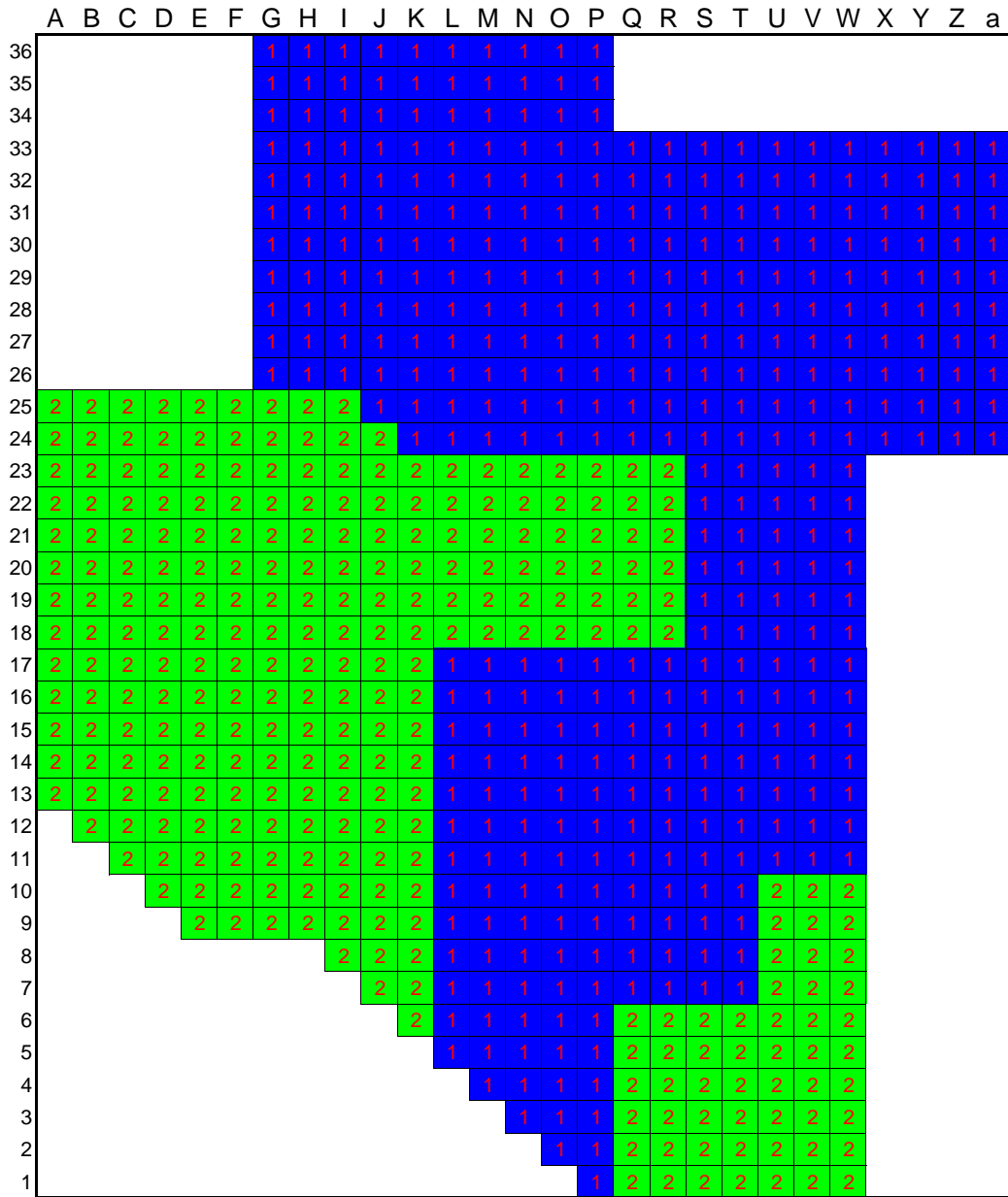
Data 7-2 Hg : Exposure Amount of Heavy Metals in Groundwater



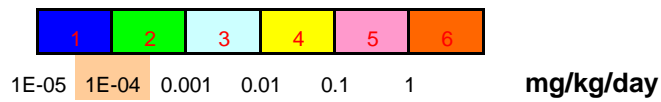
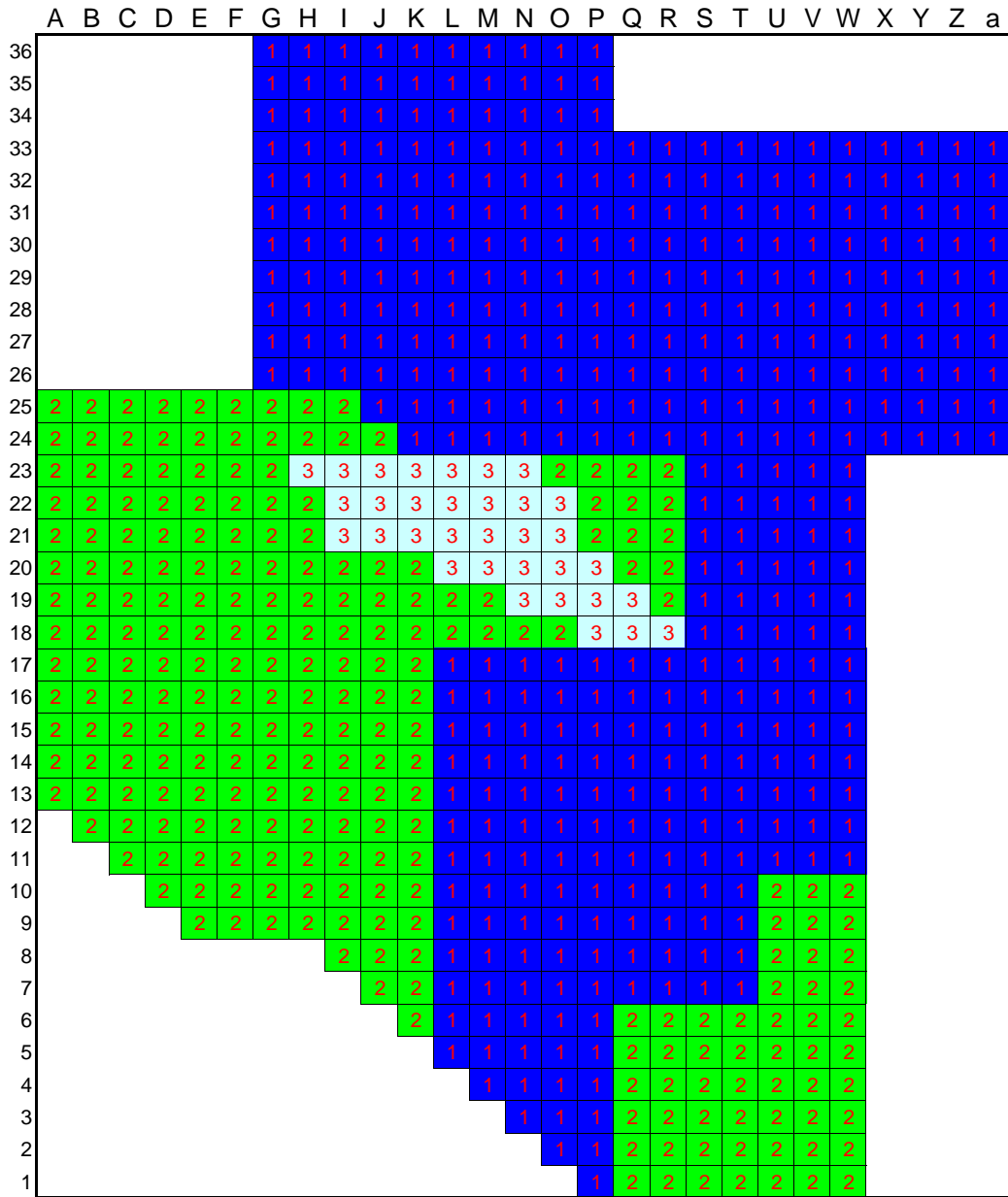
Data 7-2 Ni : Exposure Amount of Heavy Metals in Groundwater



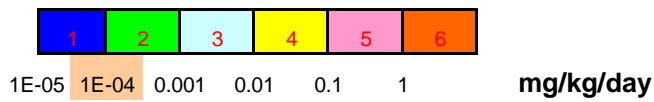
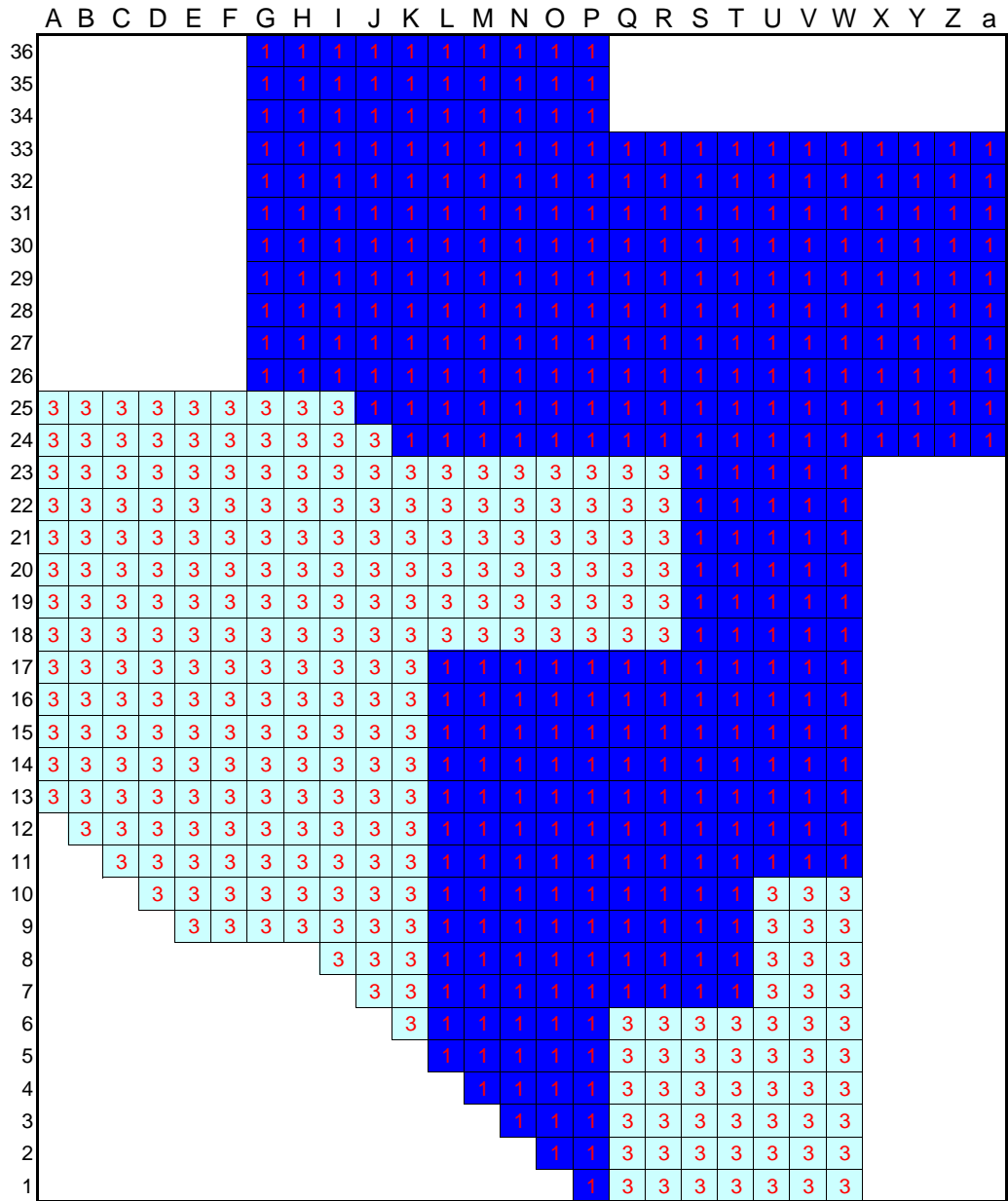
Data 7-2 Pb : Exposure Amount of Heavy Metals in Groundwater



Data 7-2 Zn : Exposure Amount of Heavy Metals in Groundwater

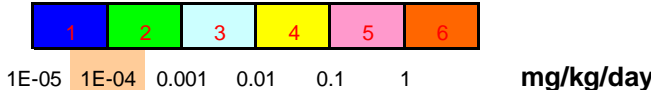
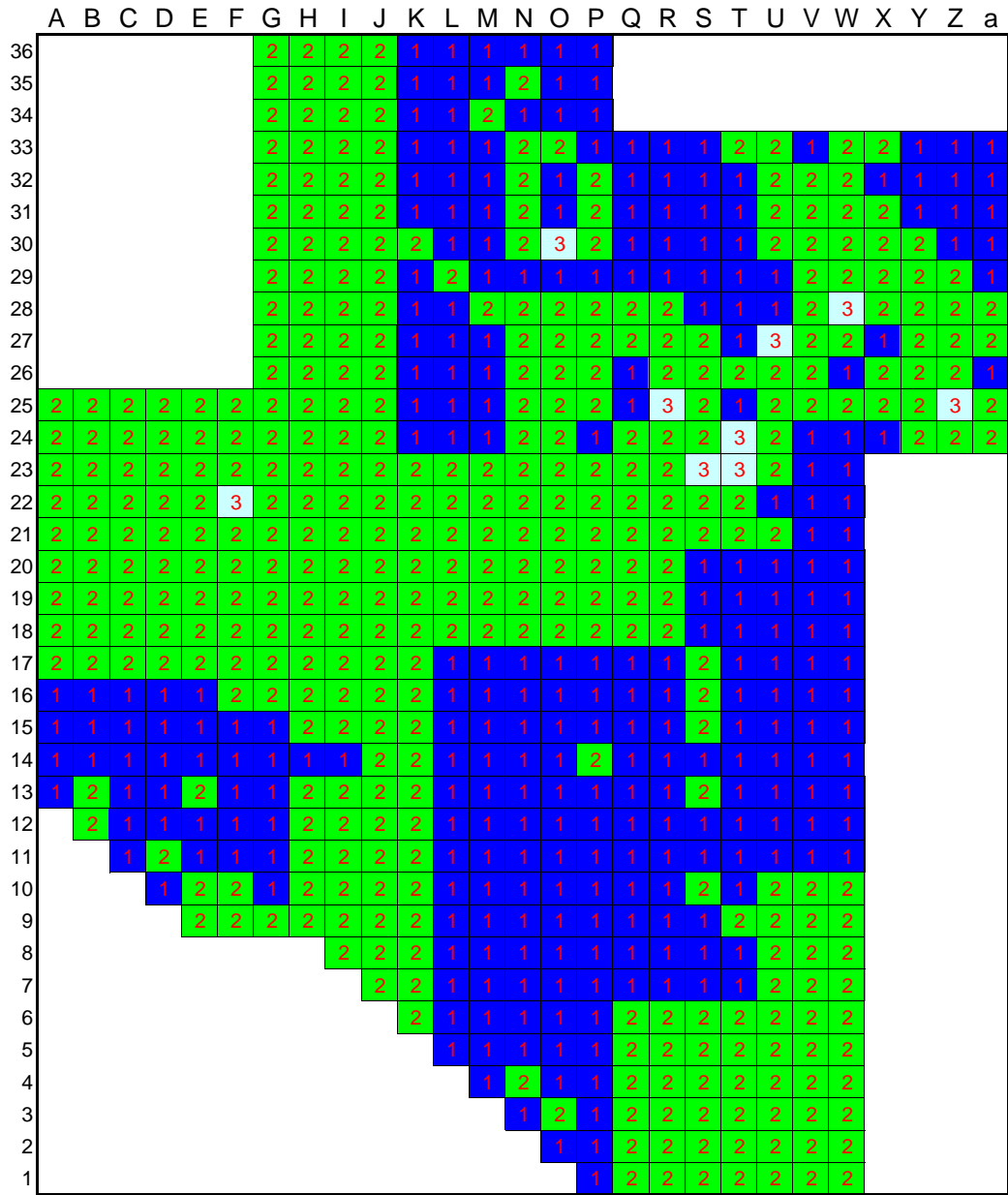


Data 7-2 Total : Exposure Amount of Heavy Metals in Groundwater

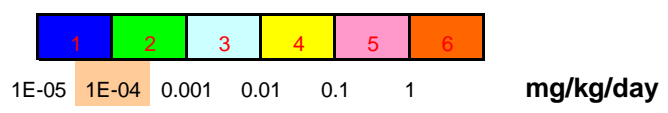
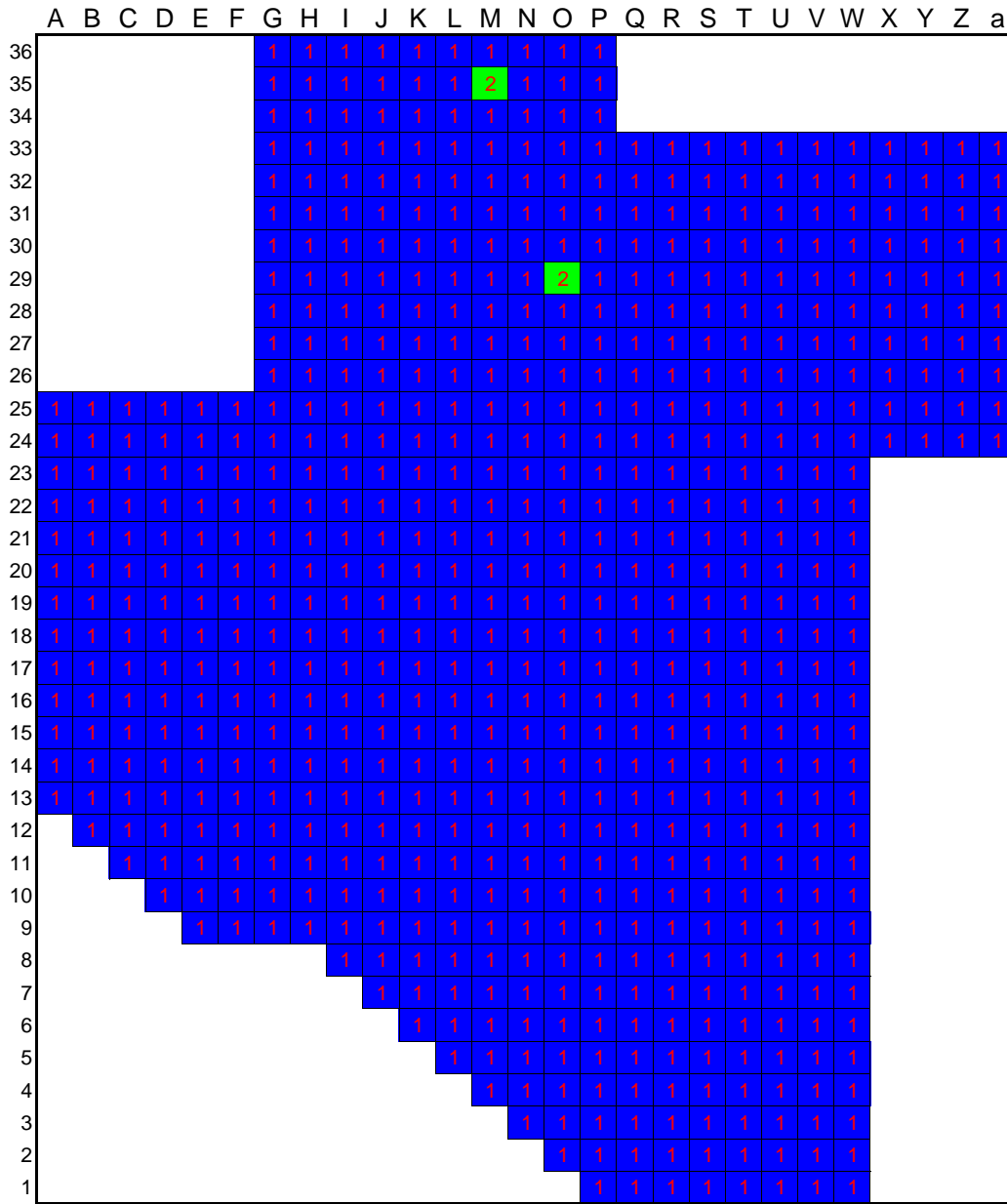


**Data 7-3 Total Exposure Amount of Heavy Metals in
Soil and (drinking) Groundwater**

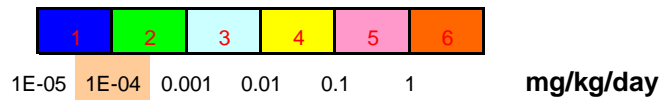
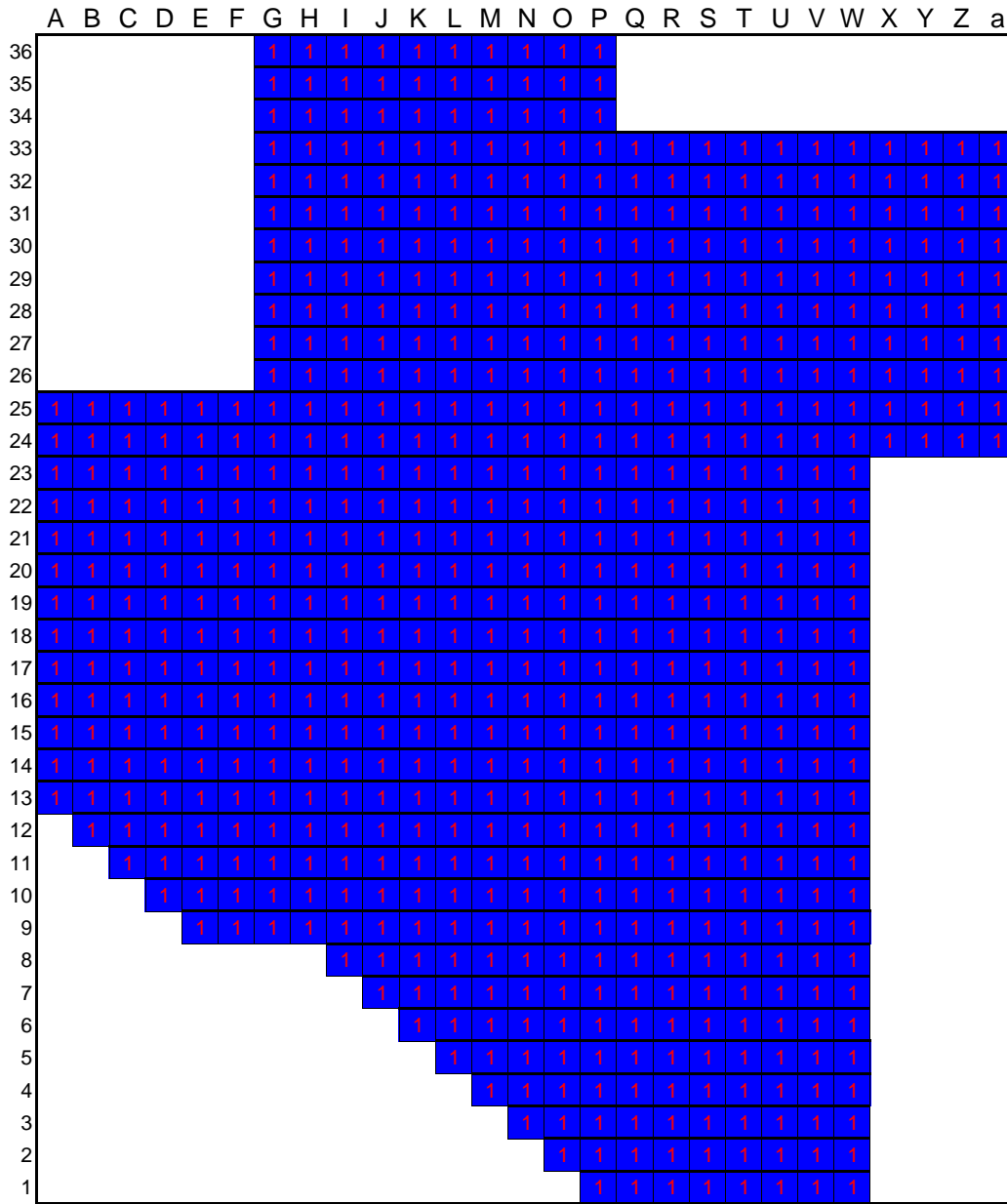
Data 7-3 As : Exposure Amount of Heavy Metals in Soil and Groundwater



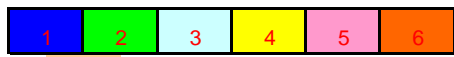
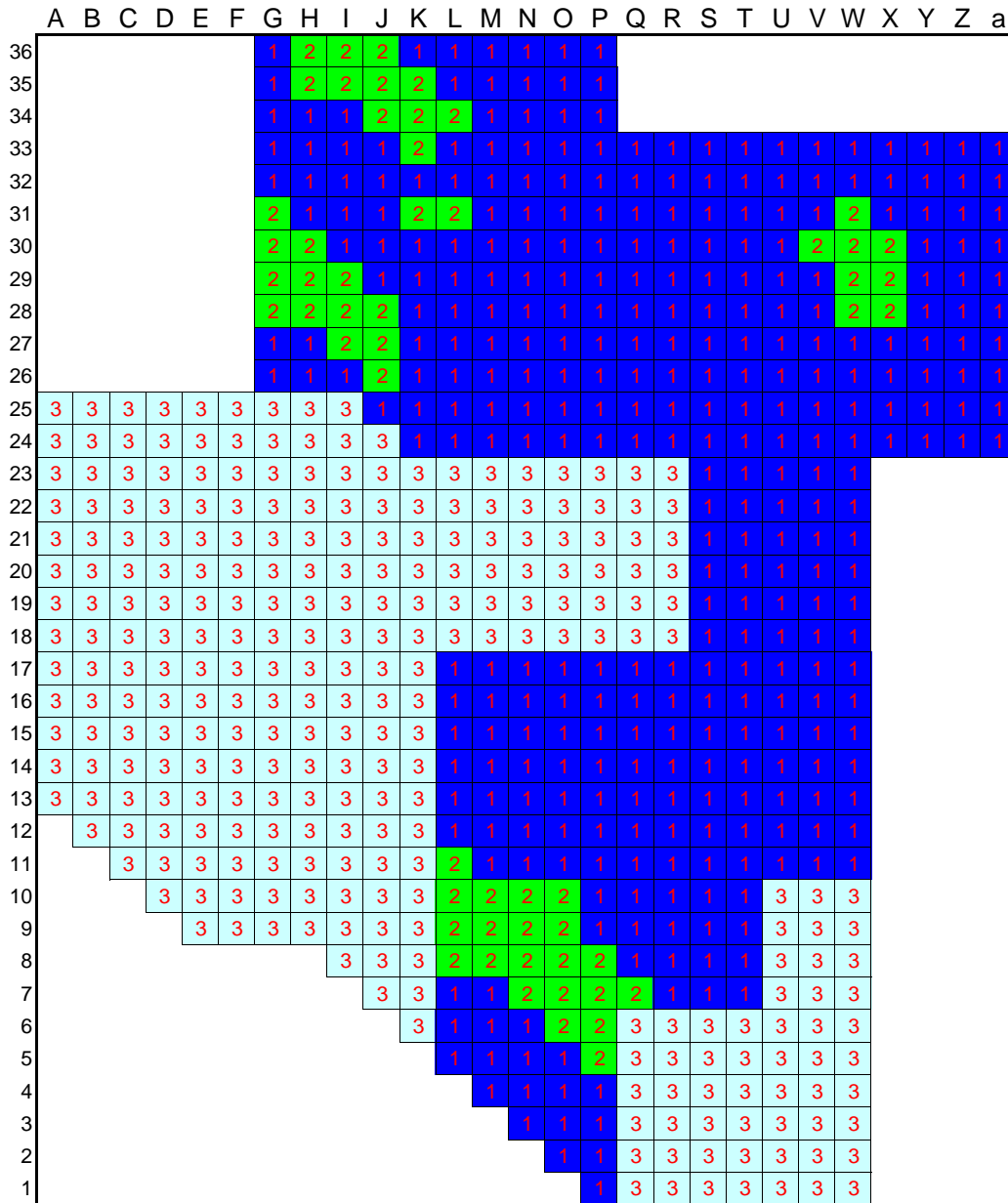
Data 7-3 Cd : Exposure Amount of Heavy Metals in Soil and Groundwater



Data 7-3 Hg : Exposure Amount of Heavy Metals in Soil and Groundwater



Data 7-3 Ni : Exposure Amount of Heavy Metals in Soil and Groundwater



1E-05 1E-04 0.001 0.01 0.1 1 mg/kg/day

Data 7-3 Pb : Exposure Amount of Heavy Metals in Soil and Groundwater

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	
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34							2	2	2	2	2	2	4	3	3	2												
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32							2	2	2	2	2	2	2	4	2	2	2	2	2	2	3	2	2	2	2	2	2	2
31							2	2	2	3	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2
30							2	2	2	2	2	2	2	4	4	2	2	2	2	2	2	3	2	2	2	2	2	3
29							2	2	2	2	2	3	3	2	4	3	2	2	2	2	2	2	2	2	2	2	2	2
28							2	2	2	2	2	2	3	3	3	3	2	2	2	2	2	3	3	2	2	2	2	2
27							2	2	2	2	2	2	2	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2
26							2	2	2	2	2	2	2	4	2	2	2	2	2	2	1	1	2	2	1	2	2	2
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9				2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	3	3	2	2	2					
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3										2	2	2	2	2	2	2	2	2	2	2	3	3	2					
2											2	2	2	2	2	2	2	2	2	2	3	3	3					
1												2	2	2	2	2	2	2	2	2	3	3						



1E-05 1E-04 0.001 0.01 0.1 1 mg/kg/day

Data 7-3 Zn : Exposure Amount of Heavy Metals in Soil and Groundwater

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32							2	2	2	2	2	2	2	3	2	2	2	2	2	3	2	2	2	2	2	3	3	2
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30							2	2	2	2	2	2	2	4	3	2	2	2	2	2	2	3	2	2	2	2	3	3
29							2	2	2	2	2	3	3	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2
28							2	2	2	2	2	2	2	3	4	2	2	2	2	2	2	2	3	2	2	2	3	3
27							2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	3	2	2	2	2
26							2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	3
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19	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	2	2					
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1E-05 1E-04 0.001 0.01 0.1 1 mg/kg/day

Data 7-3 Total : Exposure Amount of Heavy Metals in Soil and Groundwater

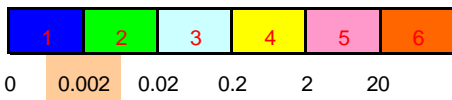
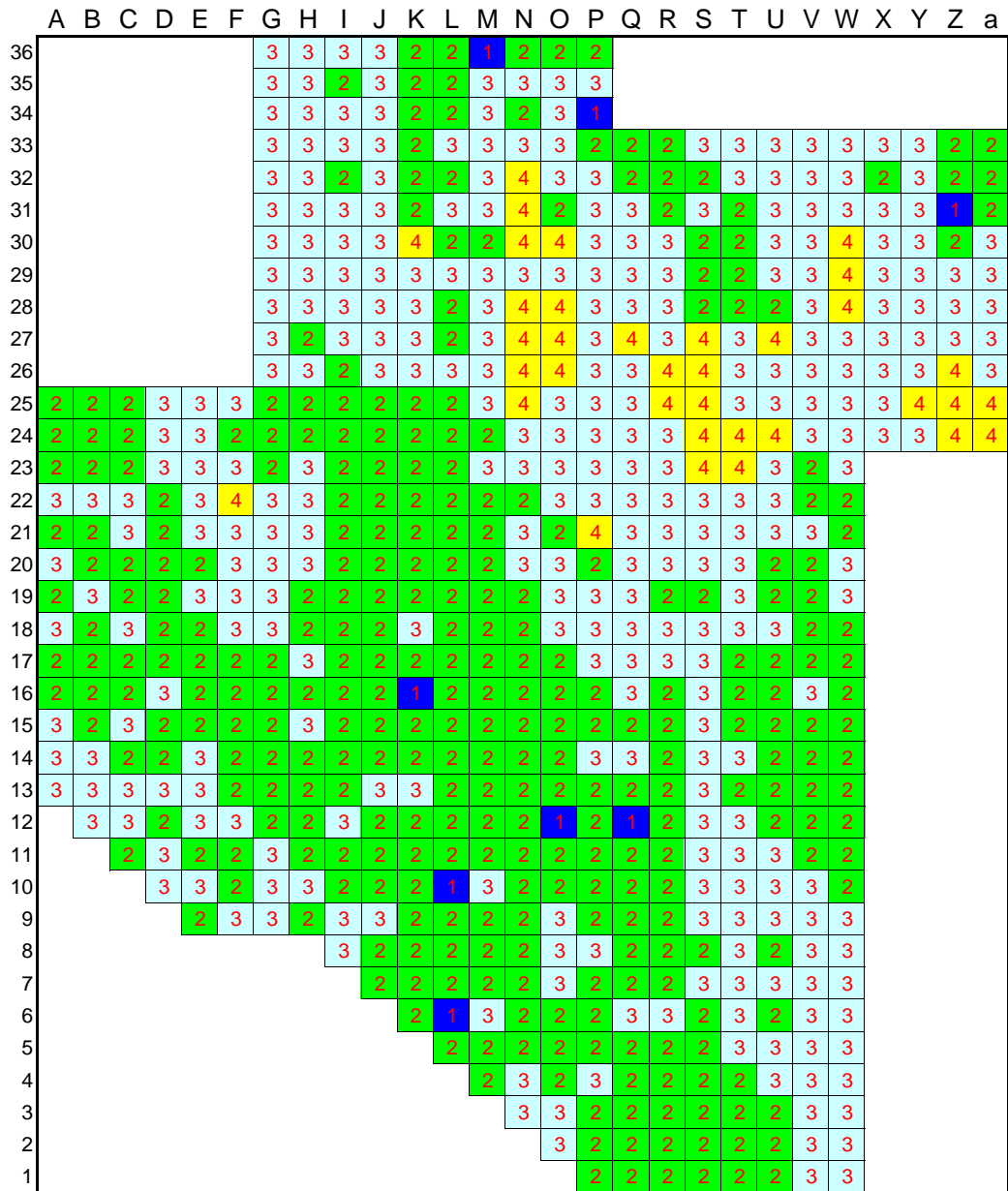
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11		3	3	3	3	3	3	3	3	3	3	2	2	2	3	2	2	2	3	3	2	2	2					
10			3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	4	3	3	3	3					
9				3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	4	3	3	3					
8					3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	3	3	3					
7						3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	3	3	3					
6							3	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3					
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4									2	2	2	2	2	3	3	3	3	3	3	3								
3										2	2	2	2	3	3	3	3	3	3	3								
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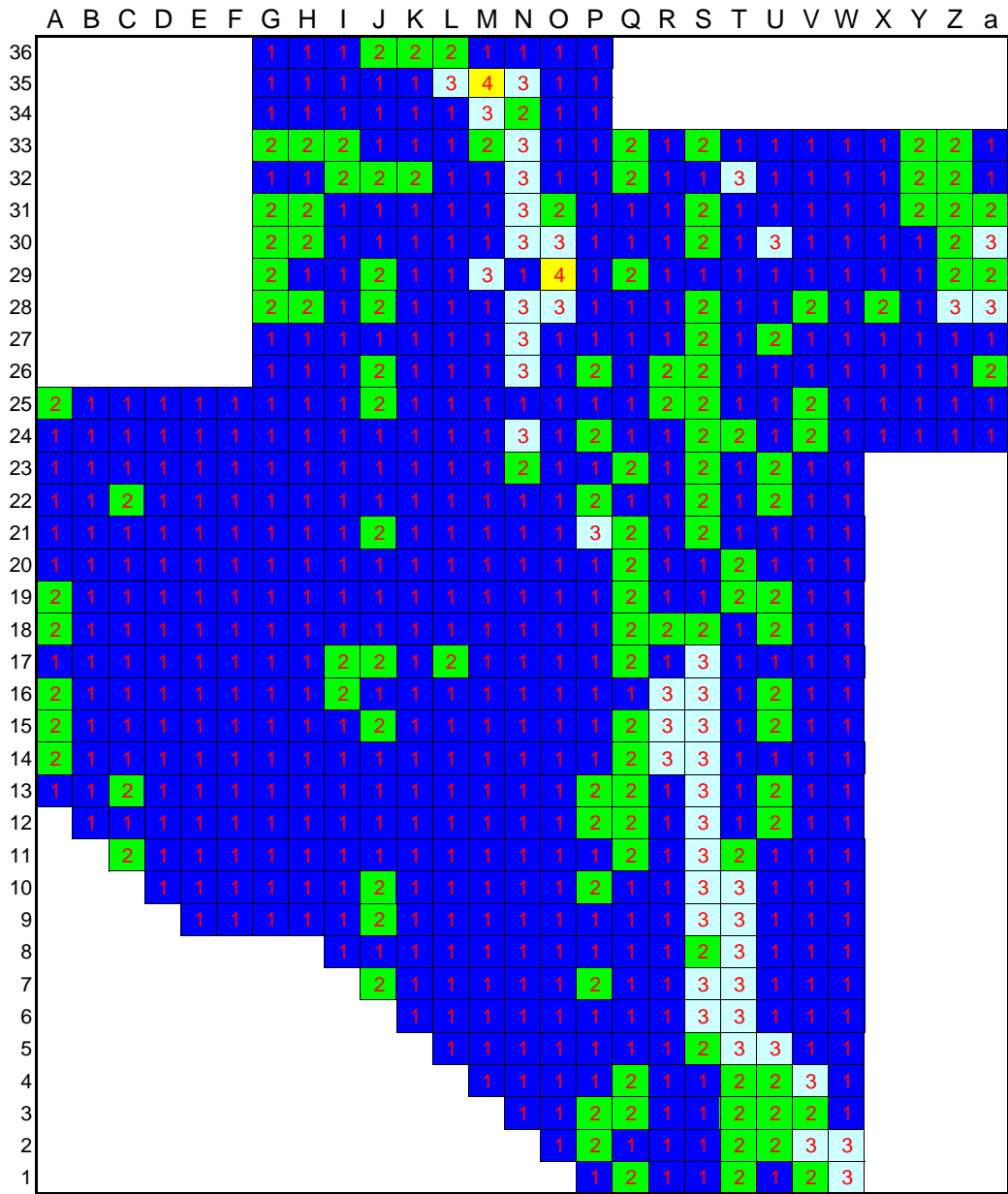
1E-05 1E-04 0.001 0.01 0.1 1 mg/kg/day

Data 7-4 Exposure Risk of Heavy Metals in Soil

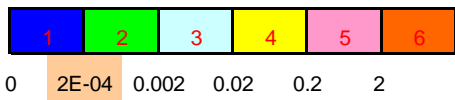
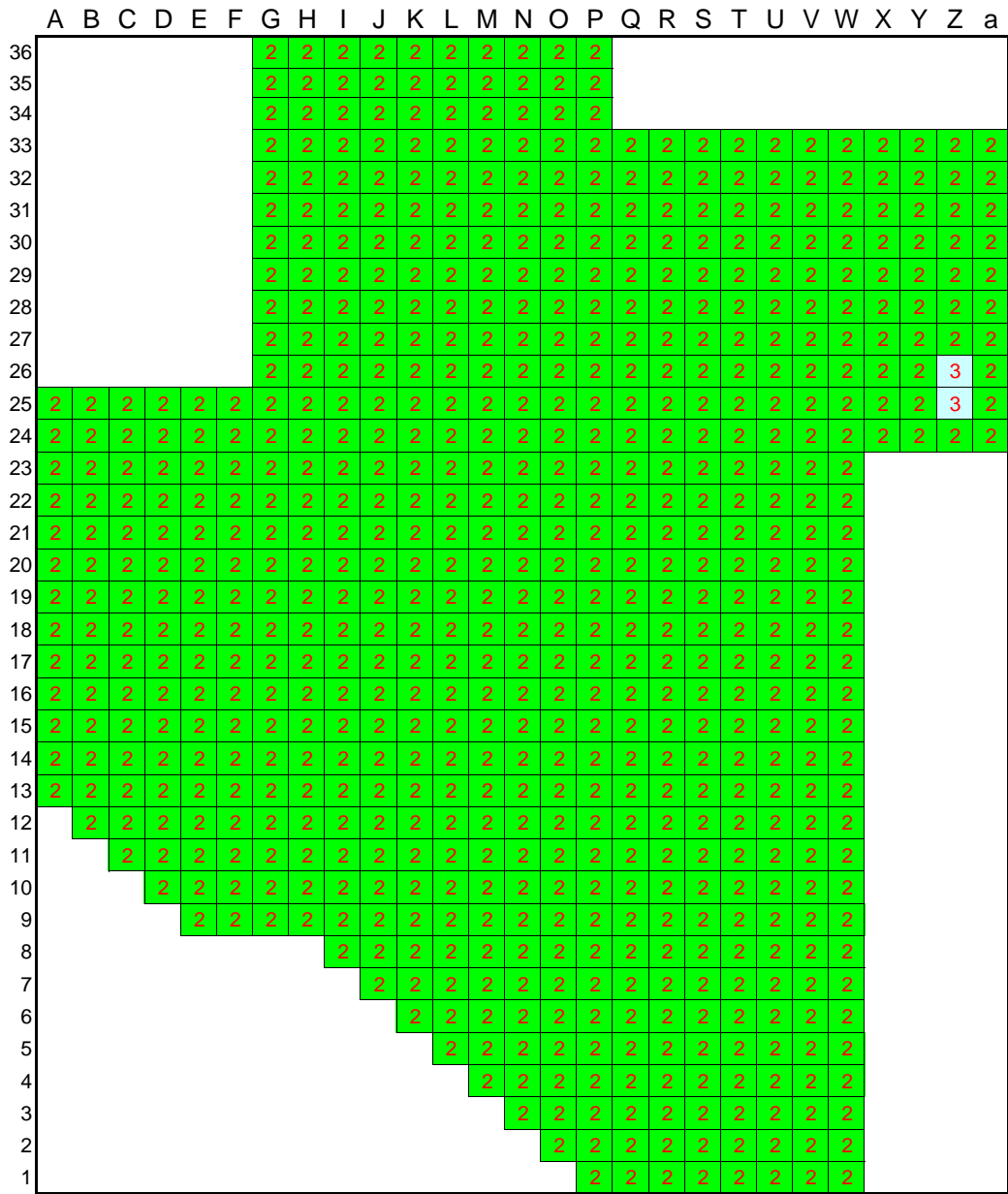
Data 7-4 As : Exposure Risk of Heavy Metals in Soil



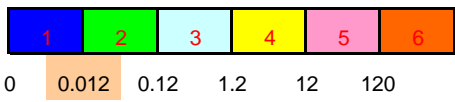
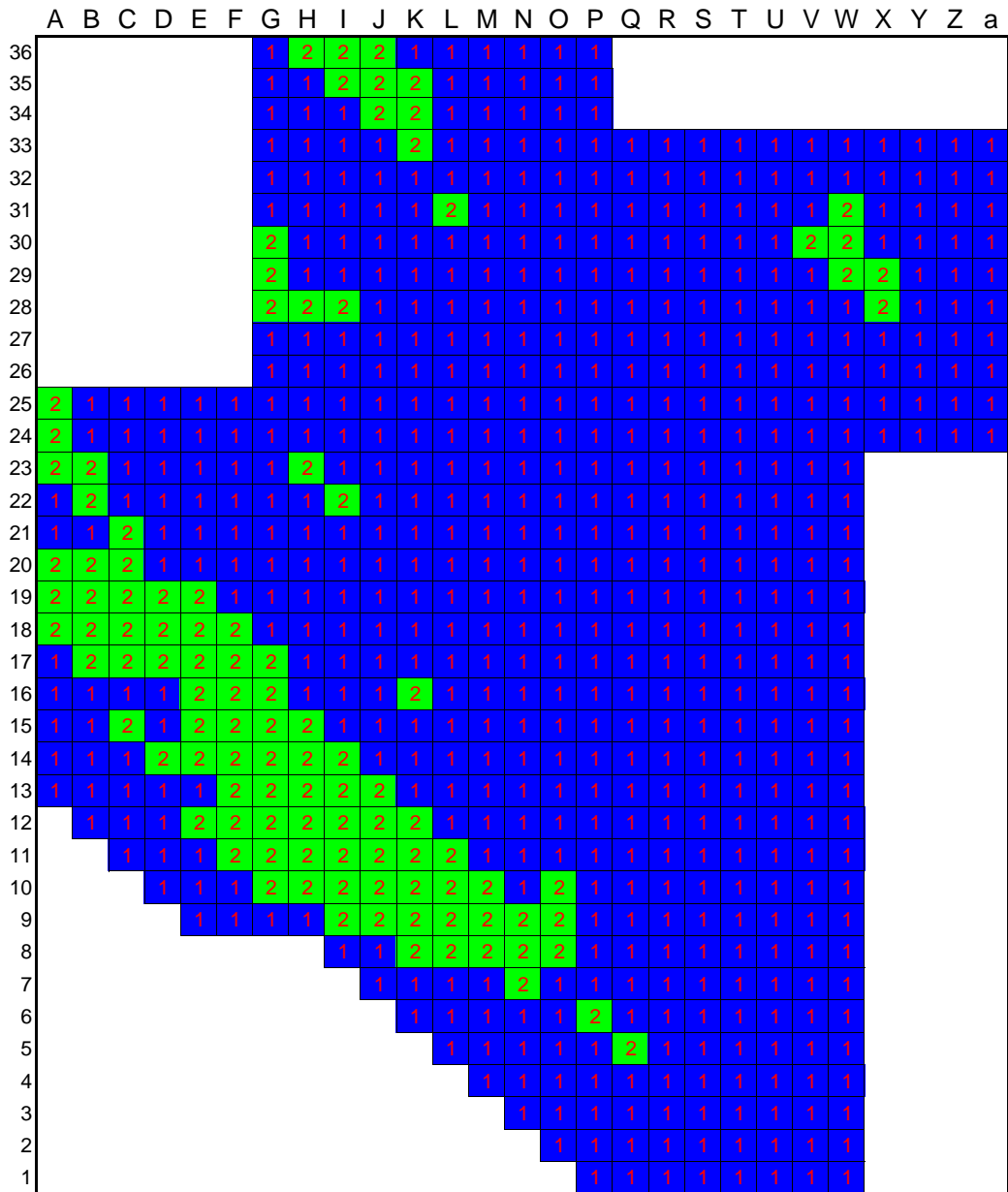
Data 7-4 Cd : Exposure Risk of Heavy Metals in Soil



Data 7-4 Hg : Exposure Risk of Heavy Metals in Soil

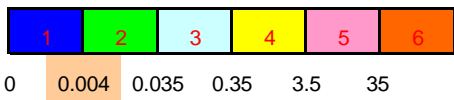


Data 7-4 Ni : Exposure Risk of Heavy Metals in Soil

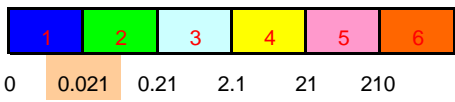
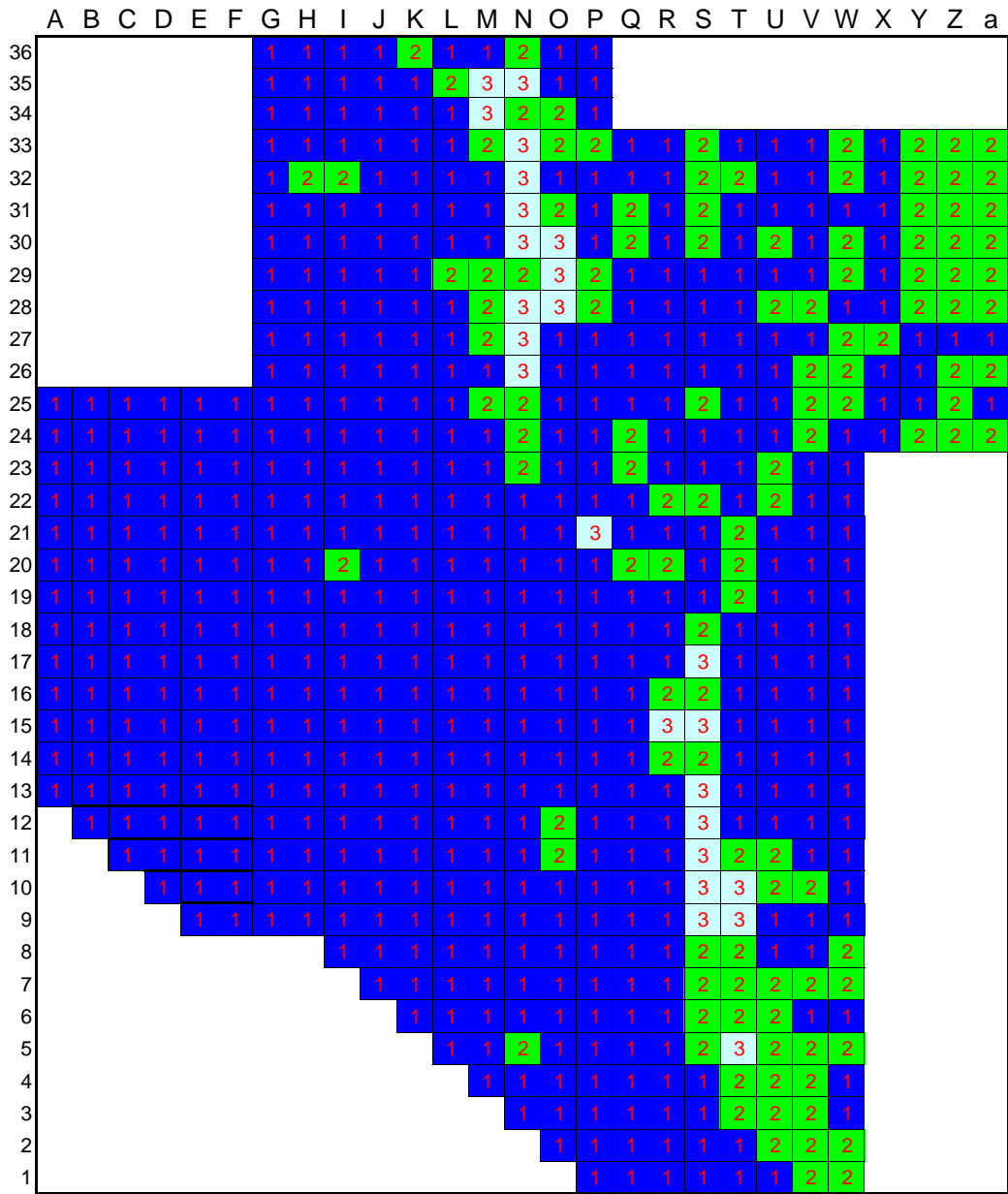


Data 7-4 Pb : Exposure Risk of Heavy Metals in Soil

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	
36							3	3	3	3	3	3	3	3	3	3												
35							3	3	3	3	3	4	5	4	3	3												
34							3	3	3	3	3	3	5	4	4	3												
33							3	3	3	3	3	3	4	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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31							3	3	3	4	3	3	3	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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29							3	3	3	3	3	4	4	3	5	4	3	3	3	3	3	3	3	3	3	3	3	3
28							3	3	3	3	3	3	4	4	4	4	3	3	3	3	3	4	3	3	3	3	3	3
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26							3	3	3	3	3	3	3	4	3	3	3	3	3	3	2	2	3	3	2	3	3	3
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8										3	3	2	2	2	2	3	3	3	3	4	2	3	3					
7																												
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4																												
3																												
2																												
1																												



Data 7-4 Zn : Exposure Risk of Heavy Metals in Soil



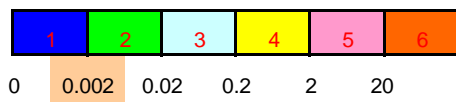
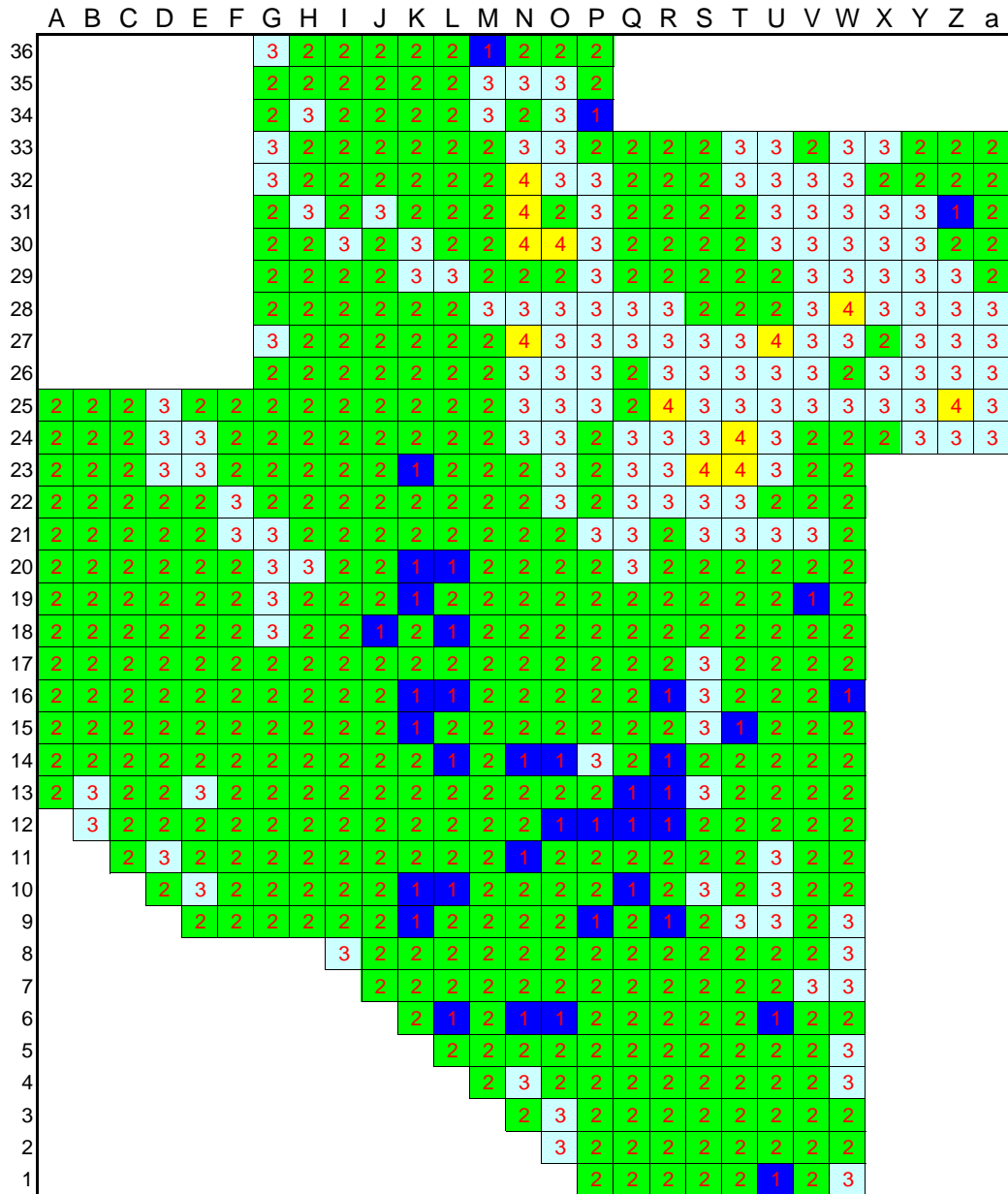
Data 7-4 Total : Exposure Risk of Heavy Metals in Soil

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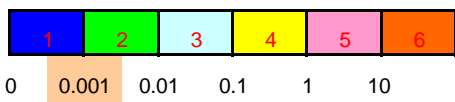
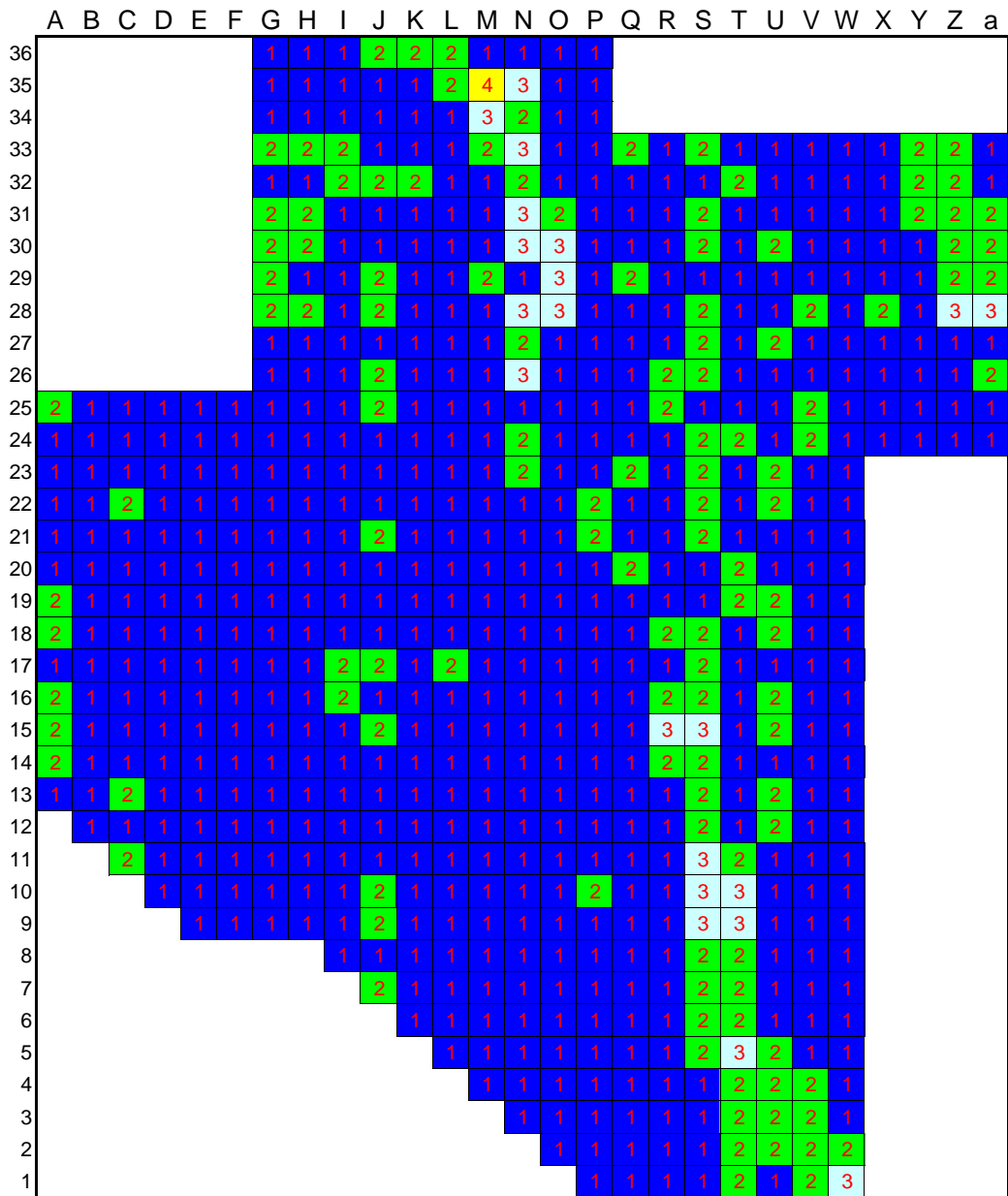


**Data 7-5 Exposure Risk of Heavy Metals in Soil
Characterised by Land-use**

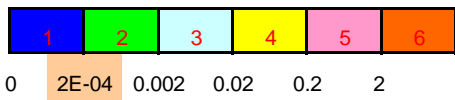
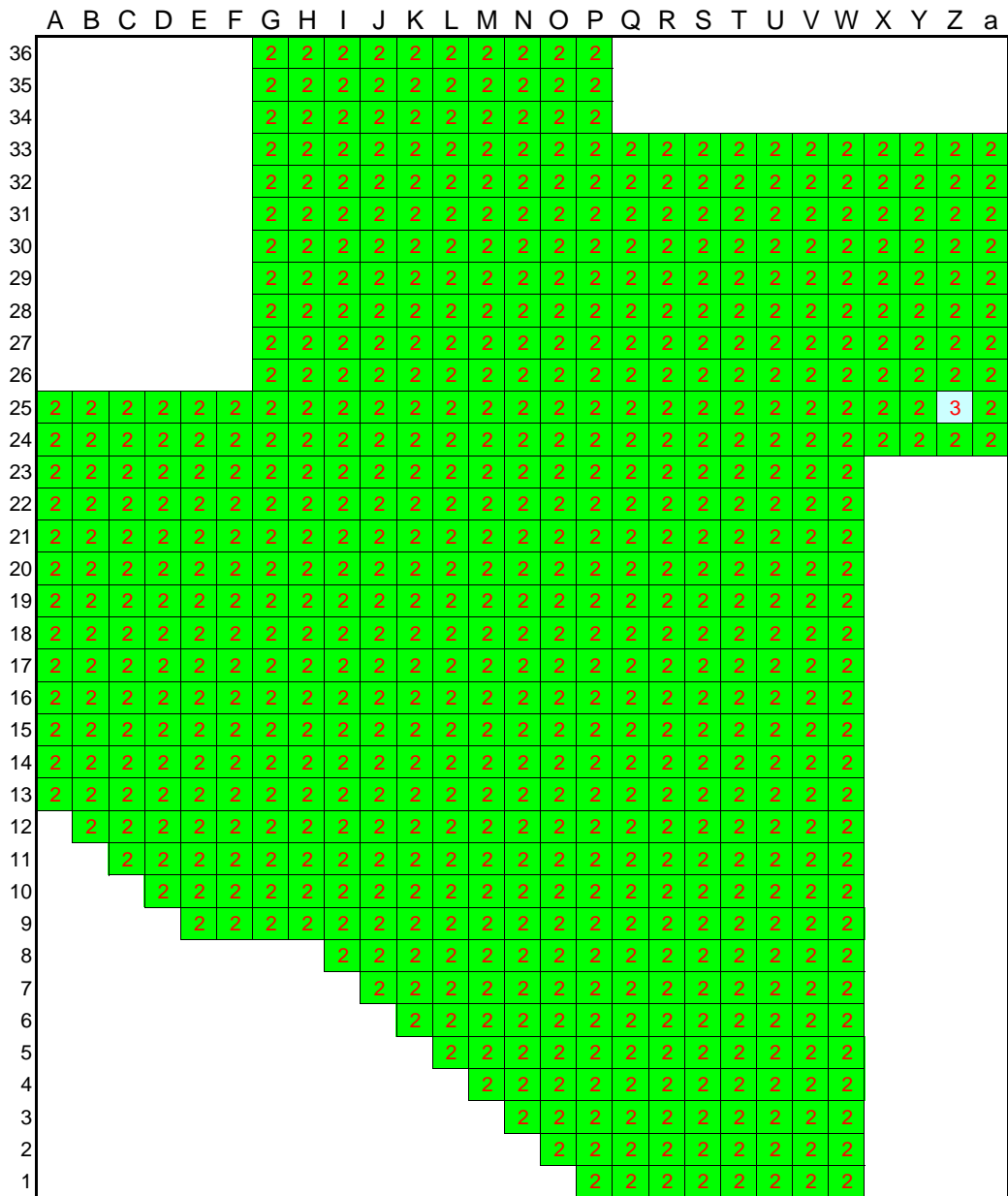
Data 7-5 As : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use



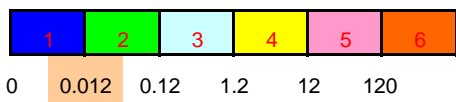
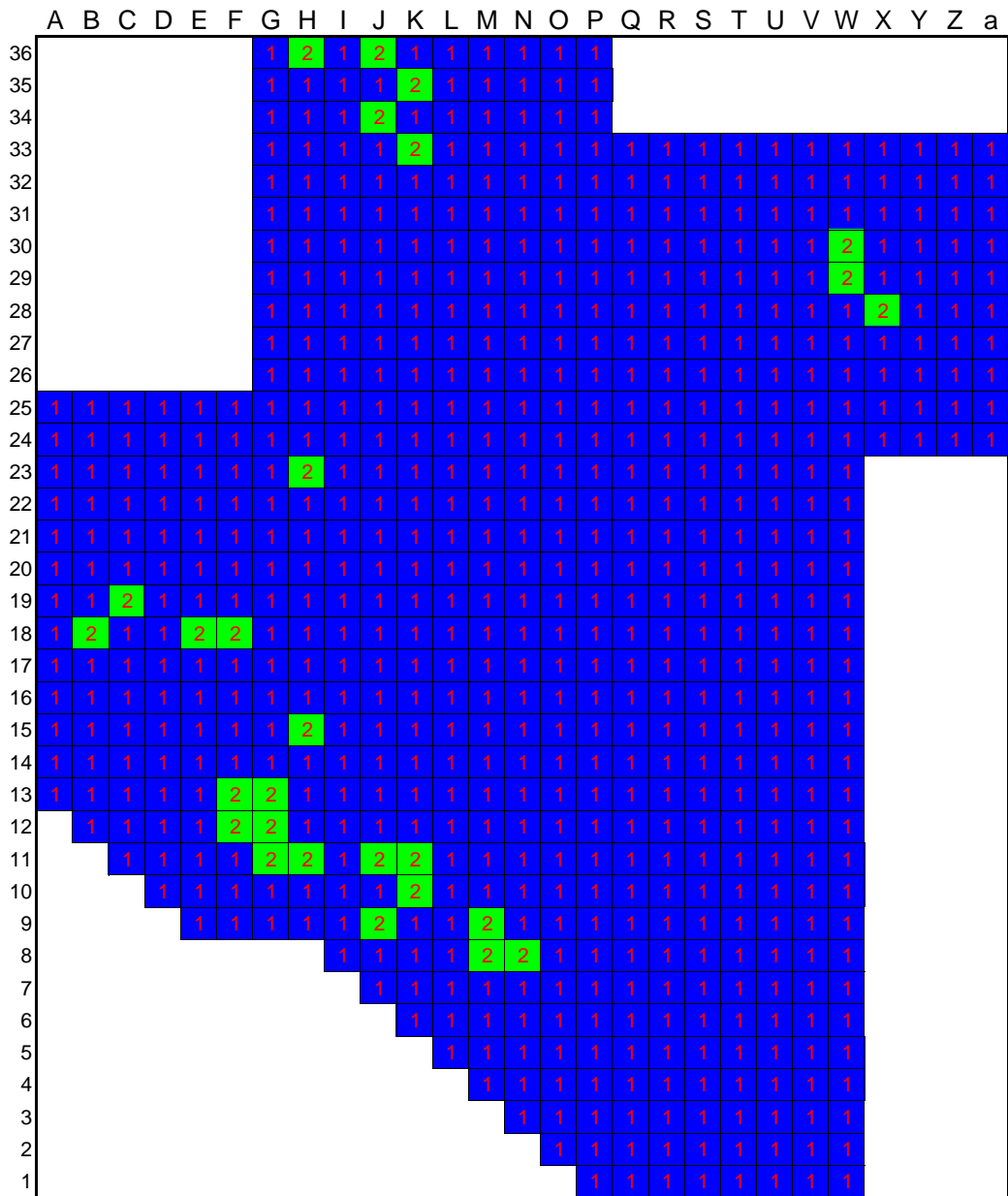
Data 7-5 Cd : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use



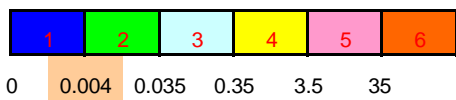
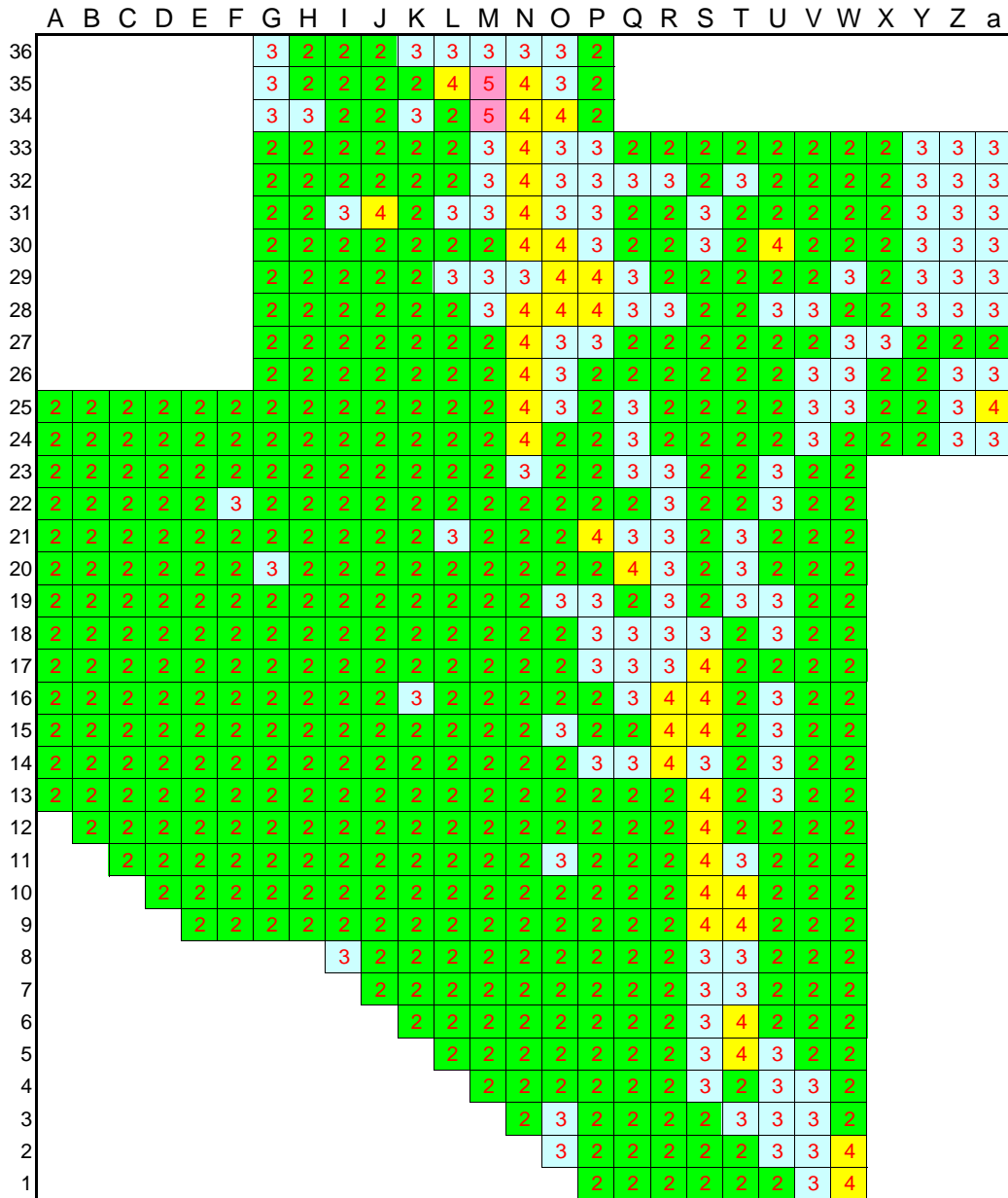
Data 7-5 Hg : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use



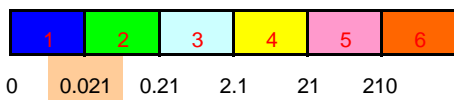
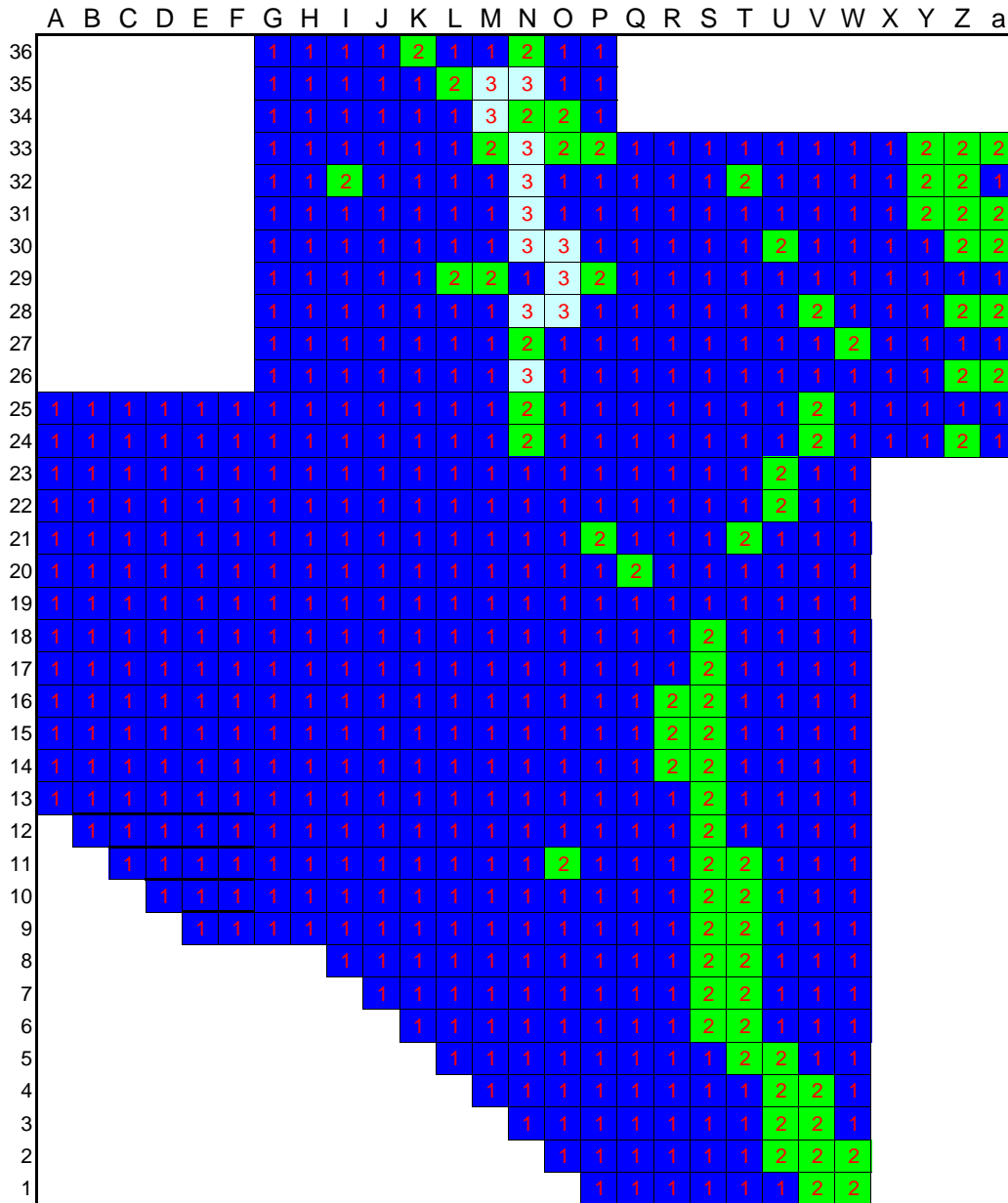
Data 7-5 Ni : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use



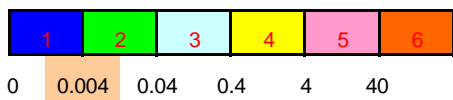
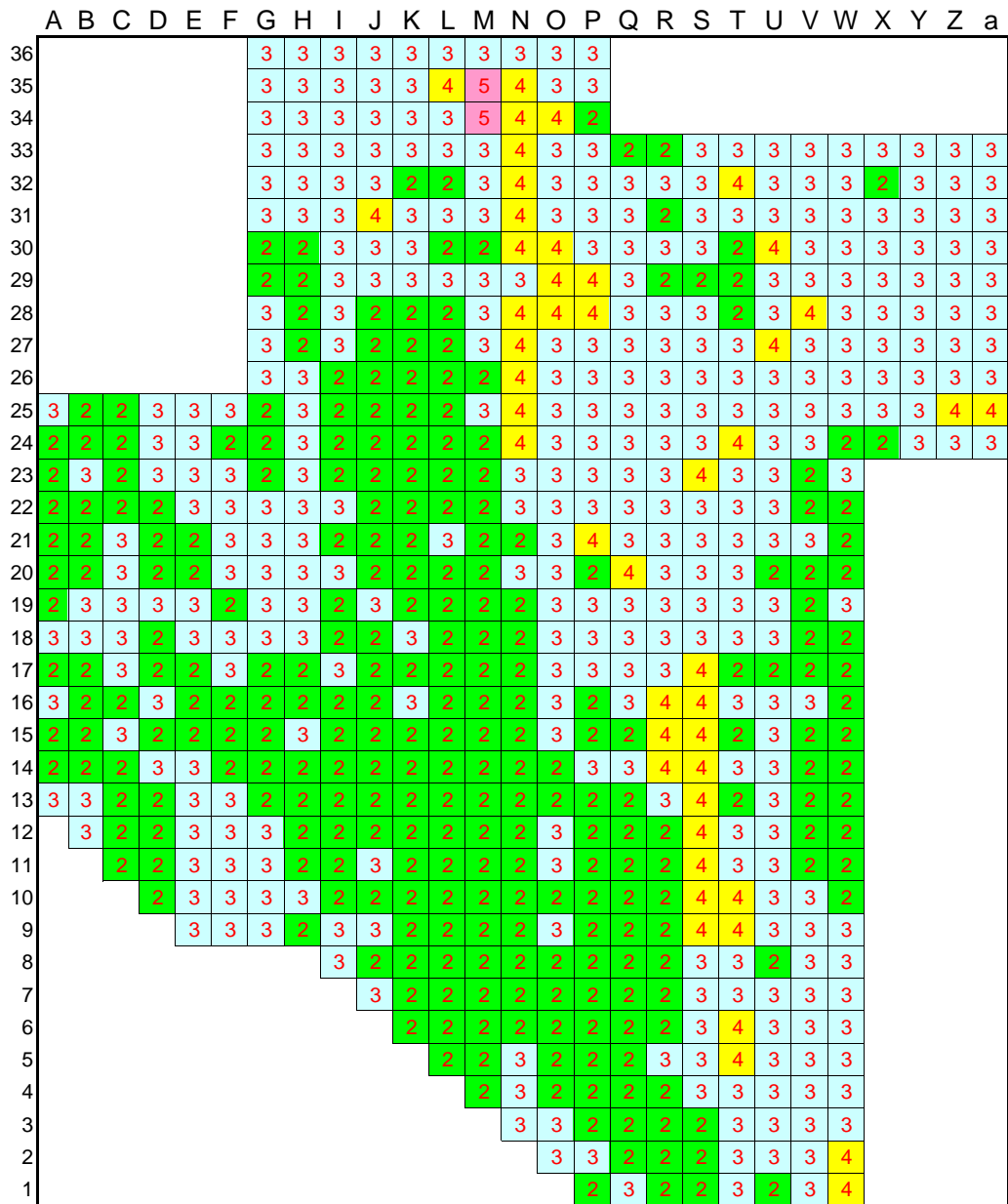
Data 7-5 Pb : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use



Data 7-5 Zn : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use

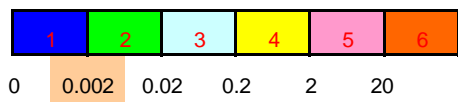
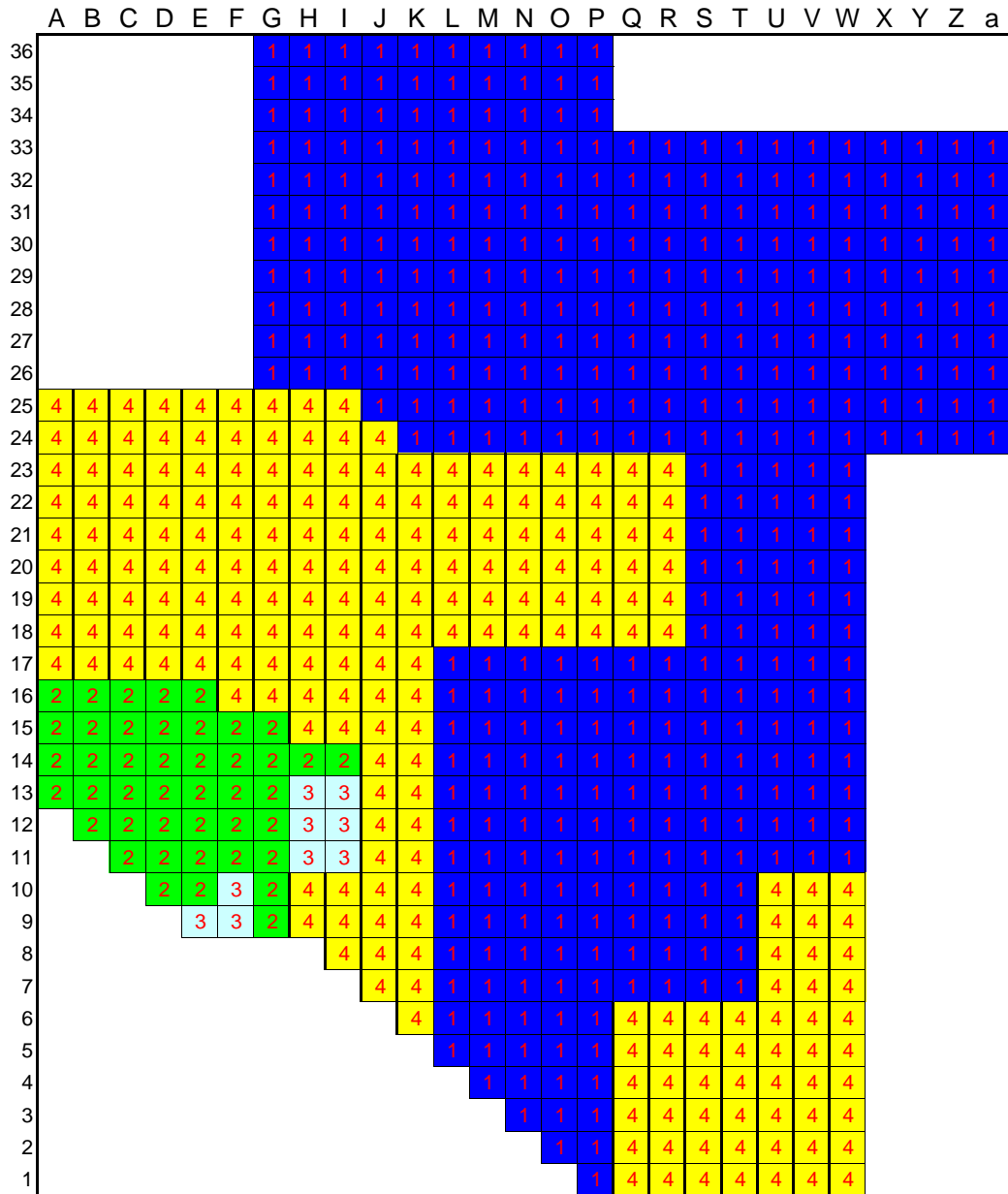


Data 7-5 Total : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use

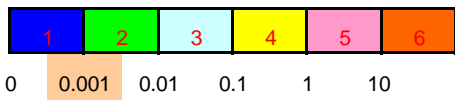
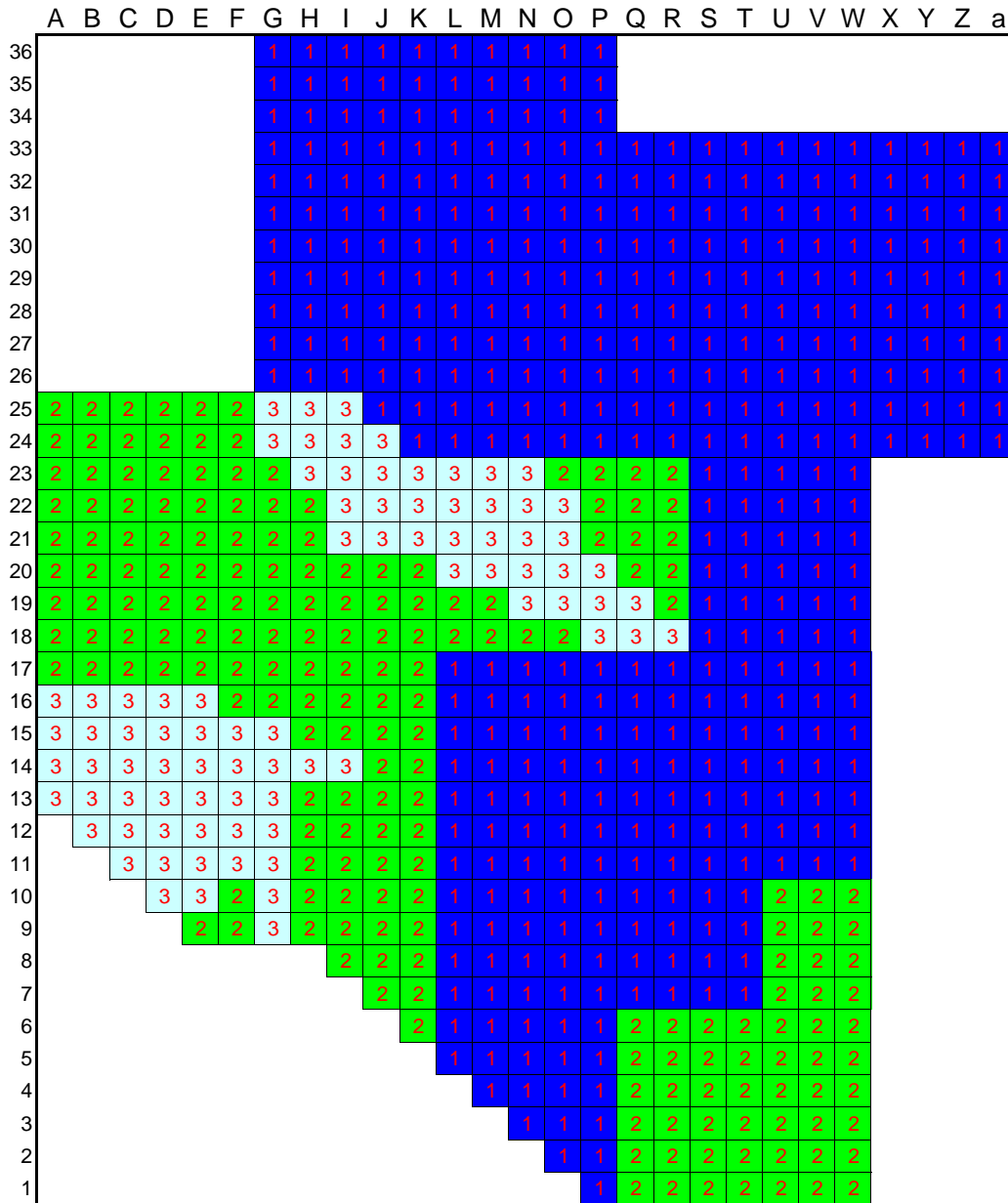


**Data 7-6 Exposure Risk of Heavy Metals in
(drinking) Groundwater**

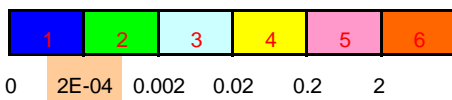
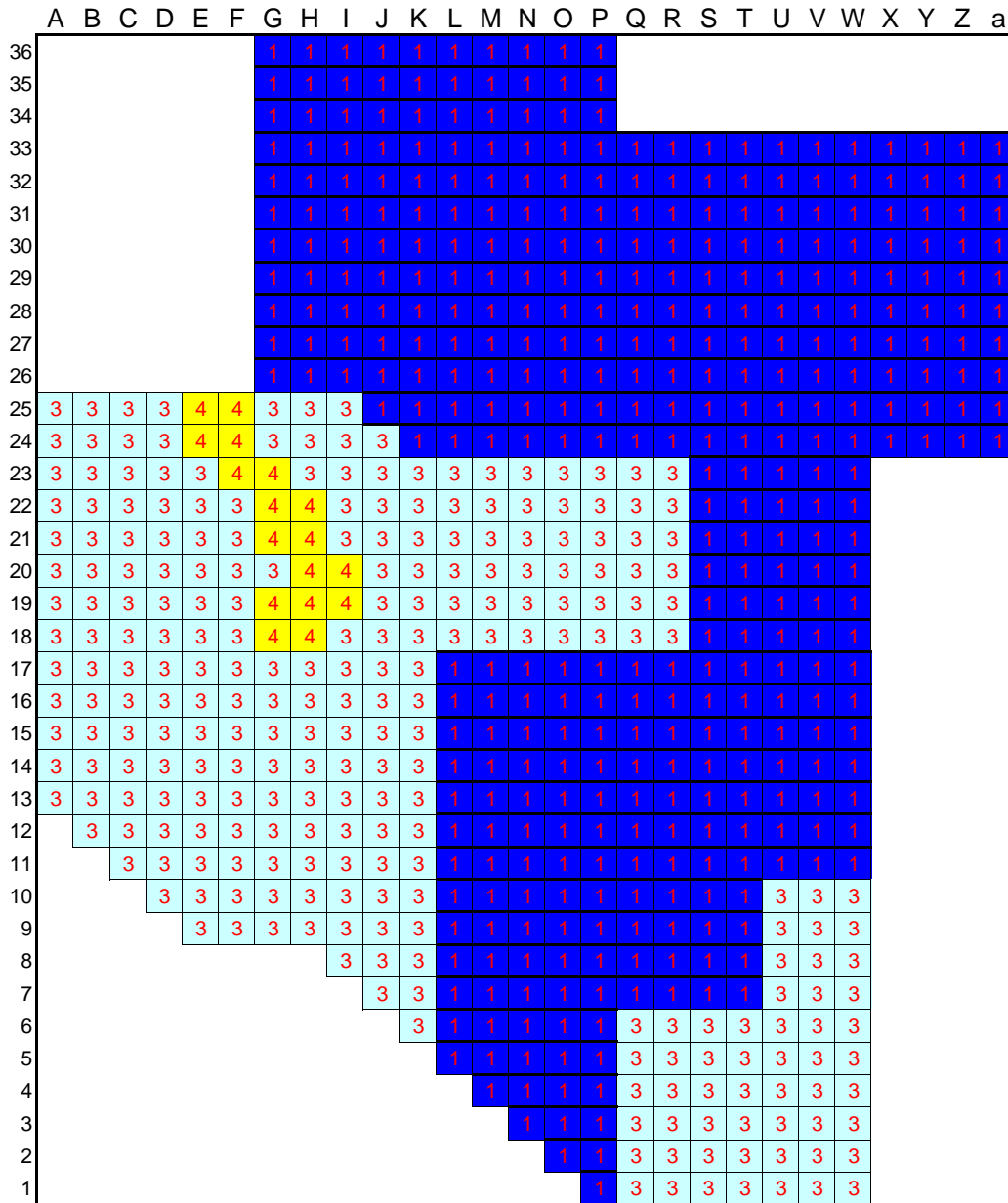
Data 7-6 As : Exposure Risk of Heavy Metals in Groundwater



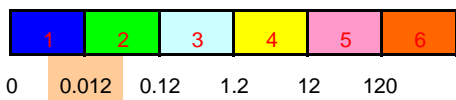
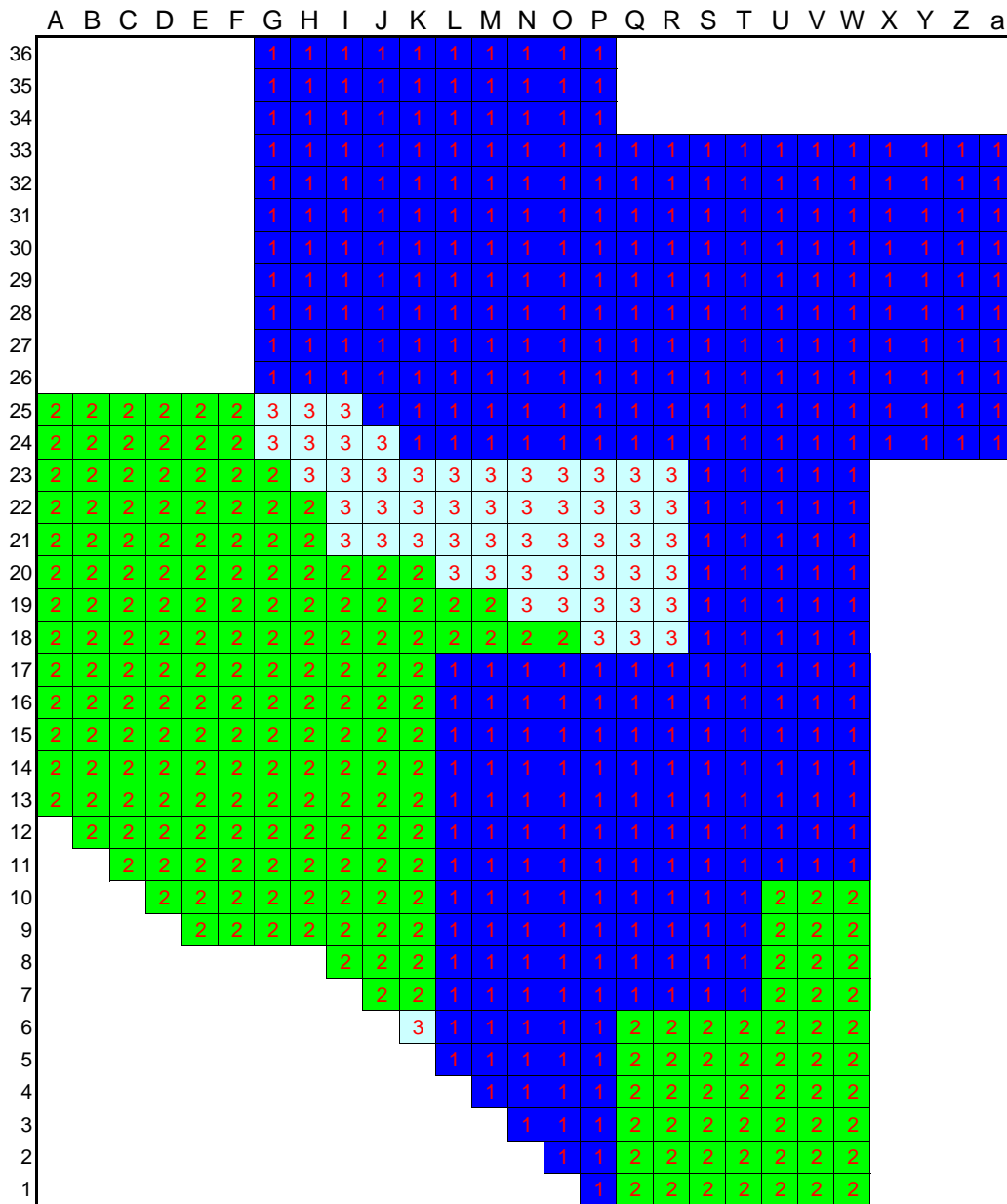
Data 7-6 Cd : Exposure Risk of Heavy Metals in Groundwater



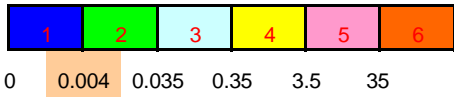
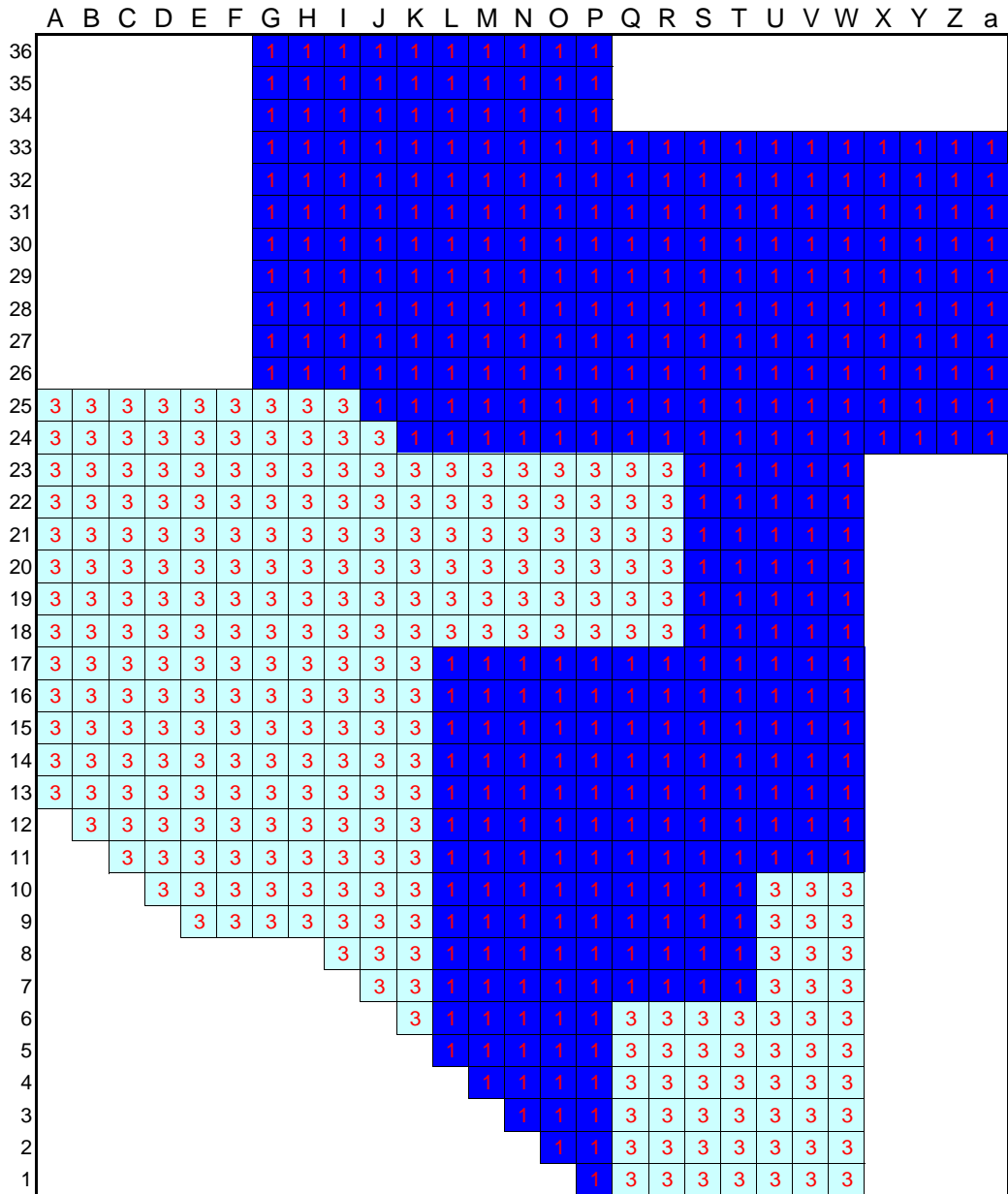
Data 7-6 Hg : Exposure Risk of Heavy Metals in Groundwater



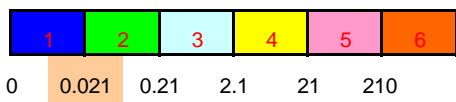
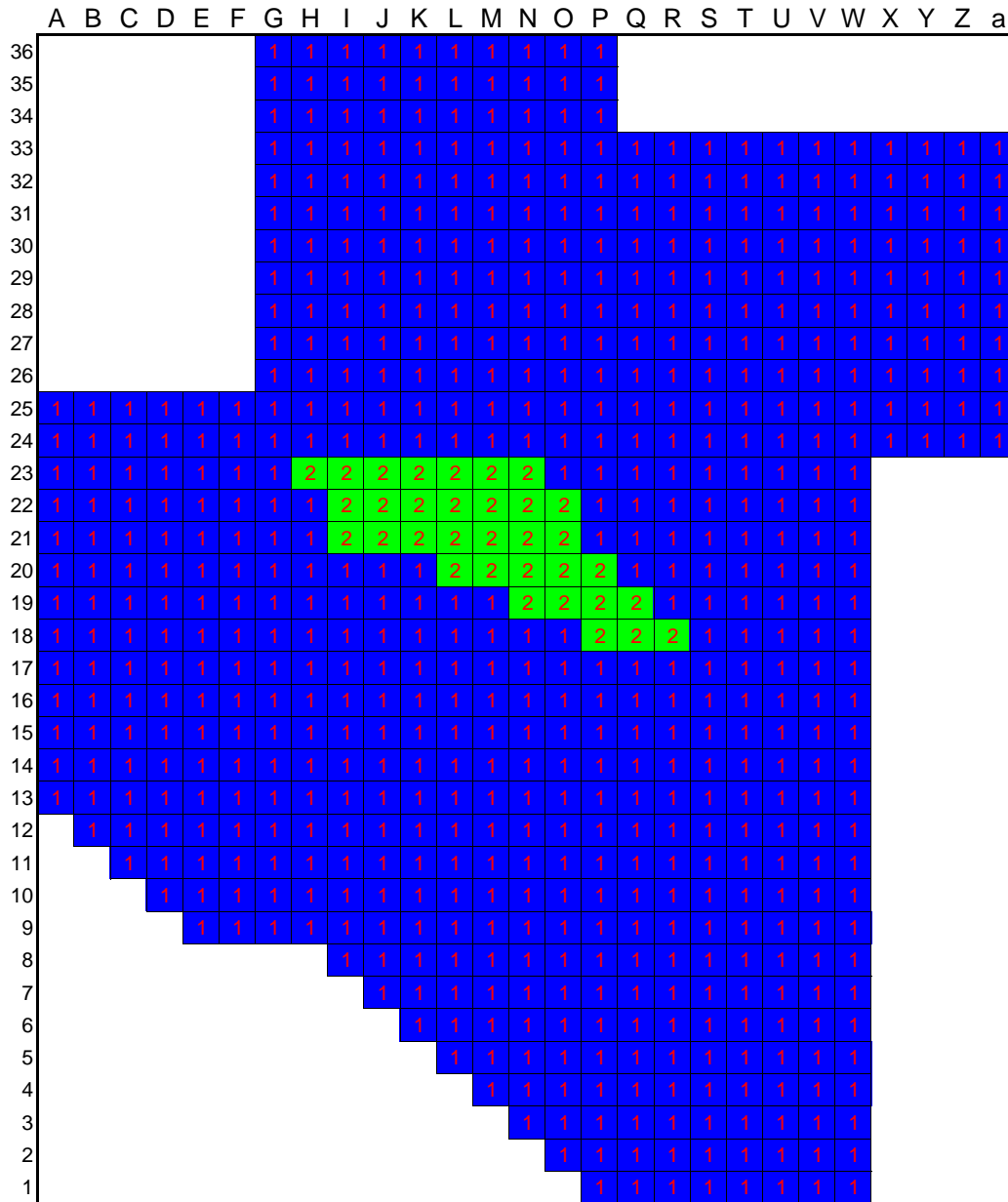
Data 7-6 Ni : Exposure Risk of Heavy Metals in Groundwater



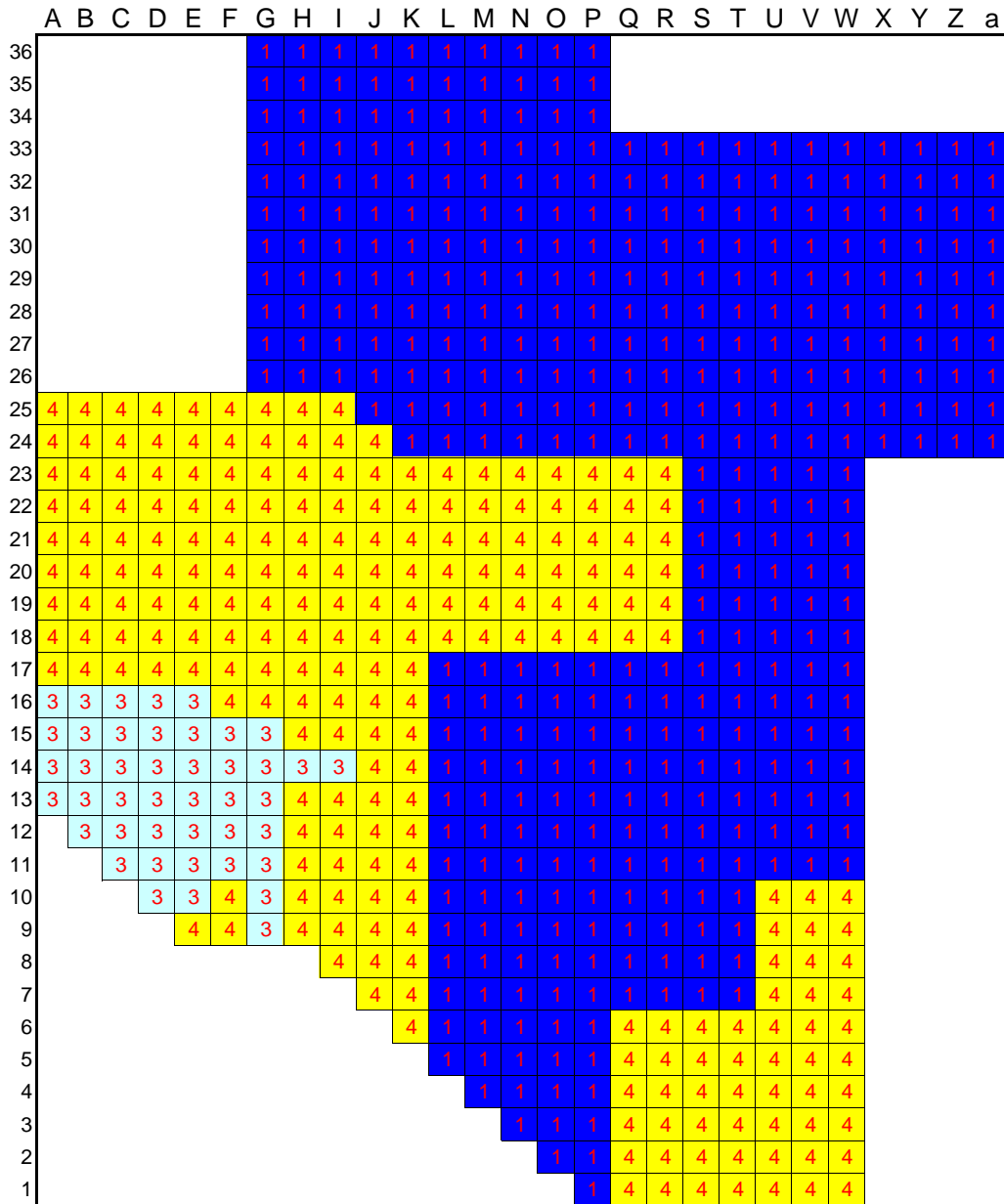
Data 7-6 Pb : Exposure Risk of Heavy Metals in Groundwater



Data 7-6 Zn : Exposure Risk of Heavy Metals in Groundwater

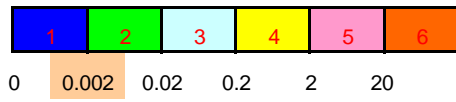
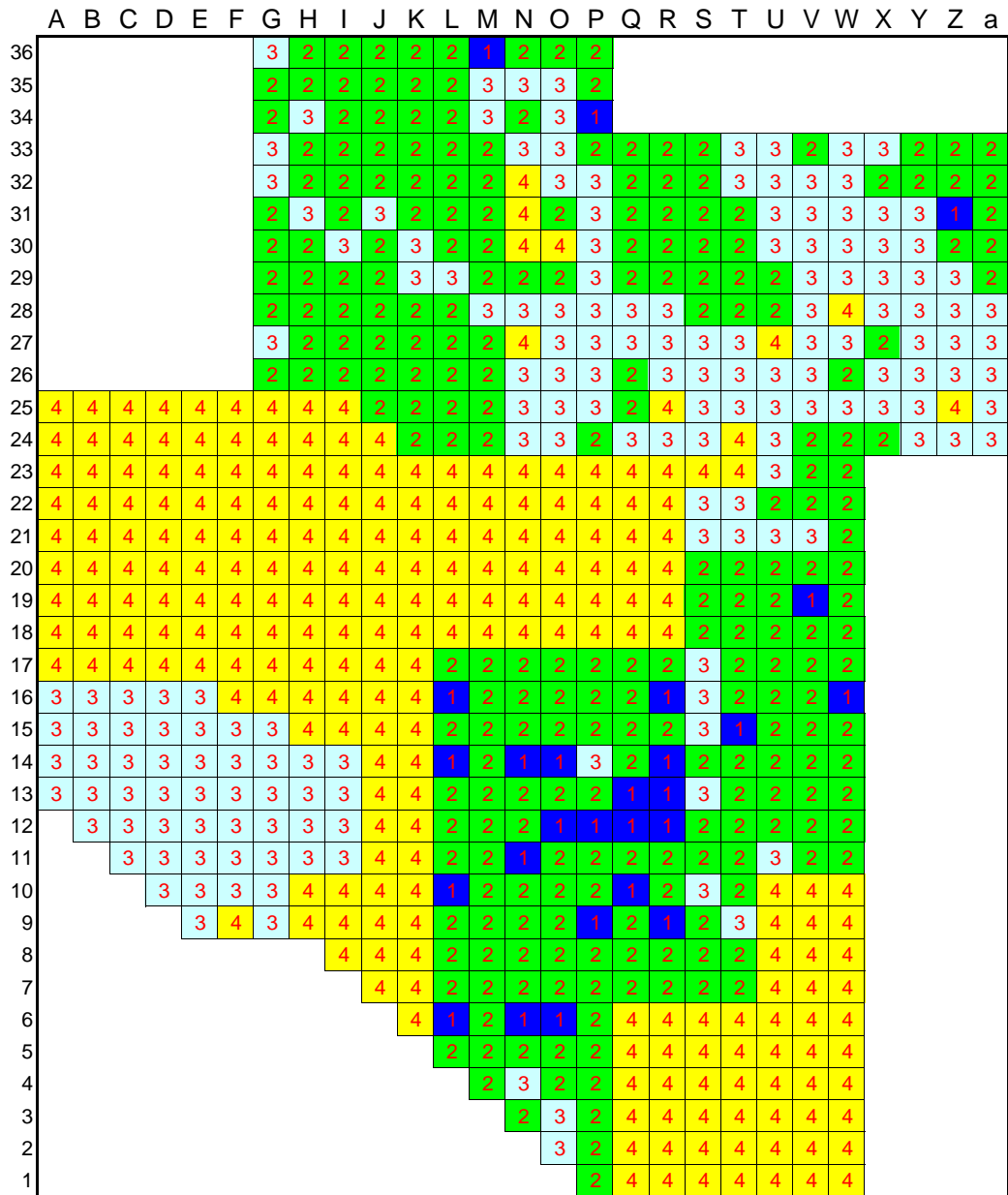


Data 7-6 Total : Exposure Risk of Heavy Metals in Groundwater

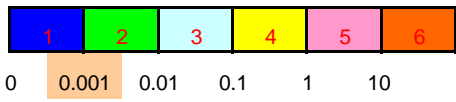
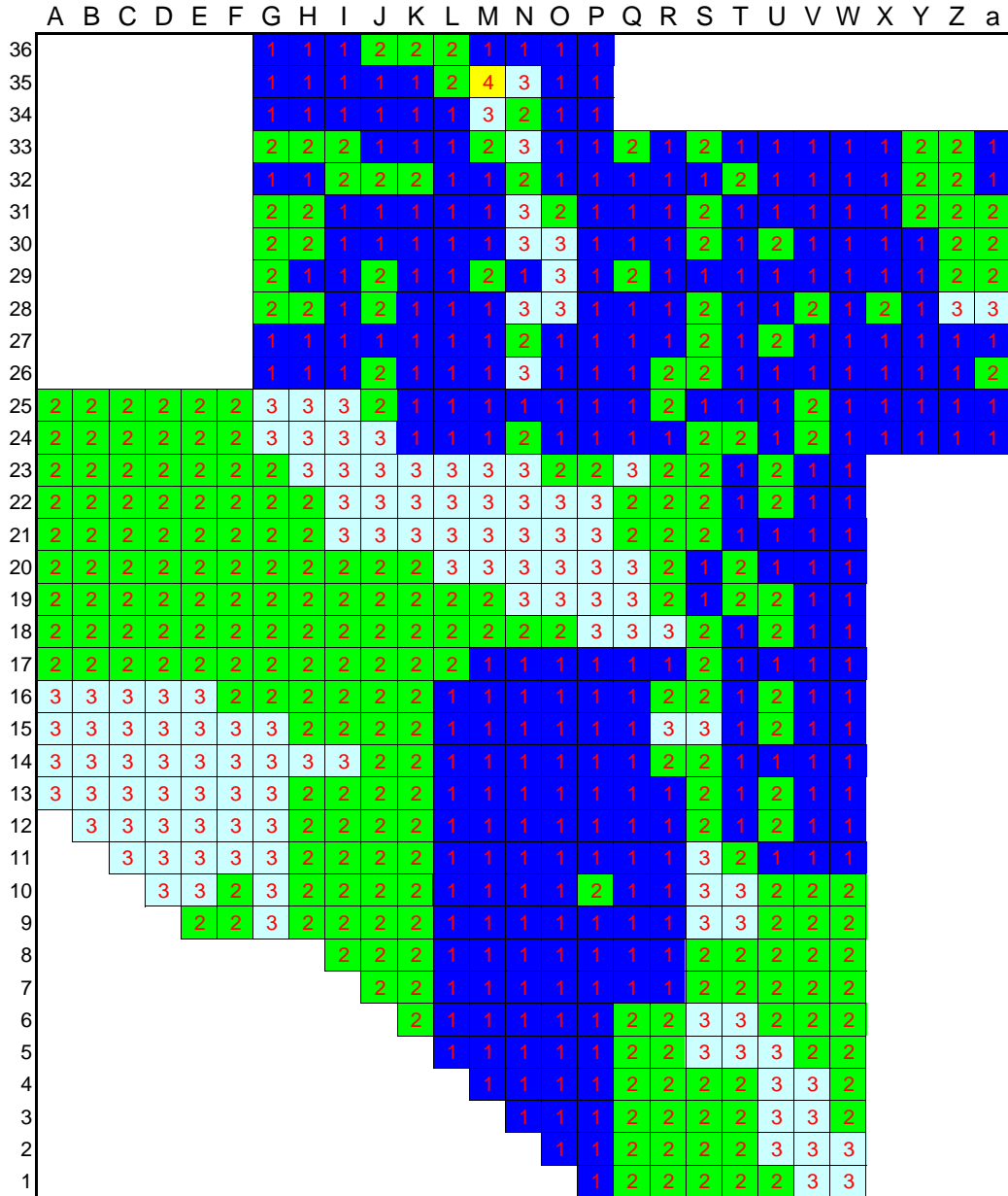


**Data 7-7 Total Exposure Risk of Heavy Metals in
Soil and (drinking) Groundwater**

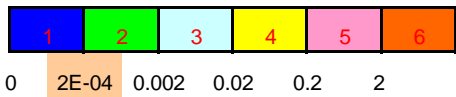
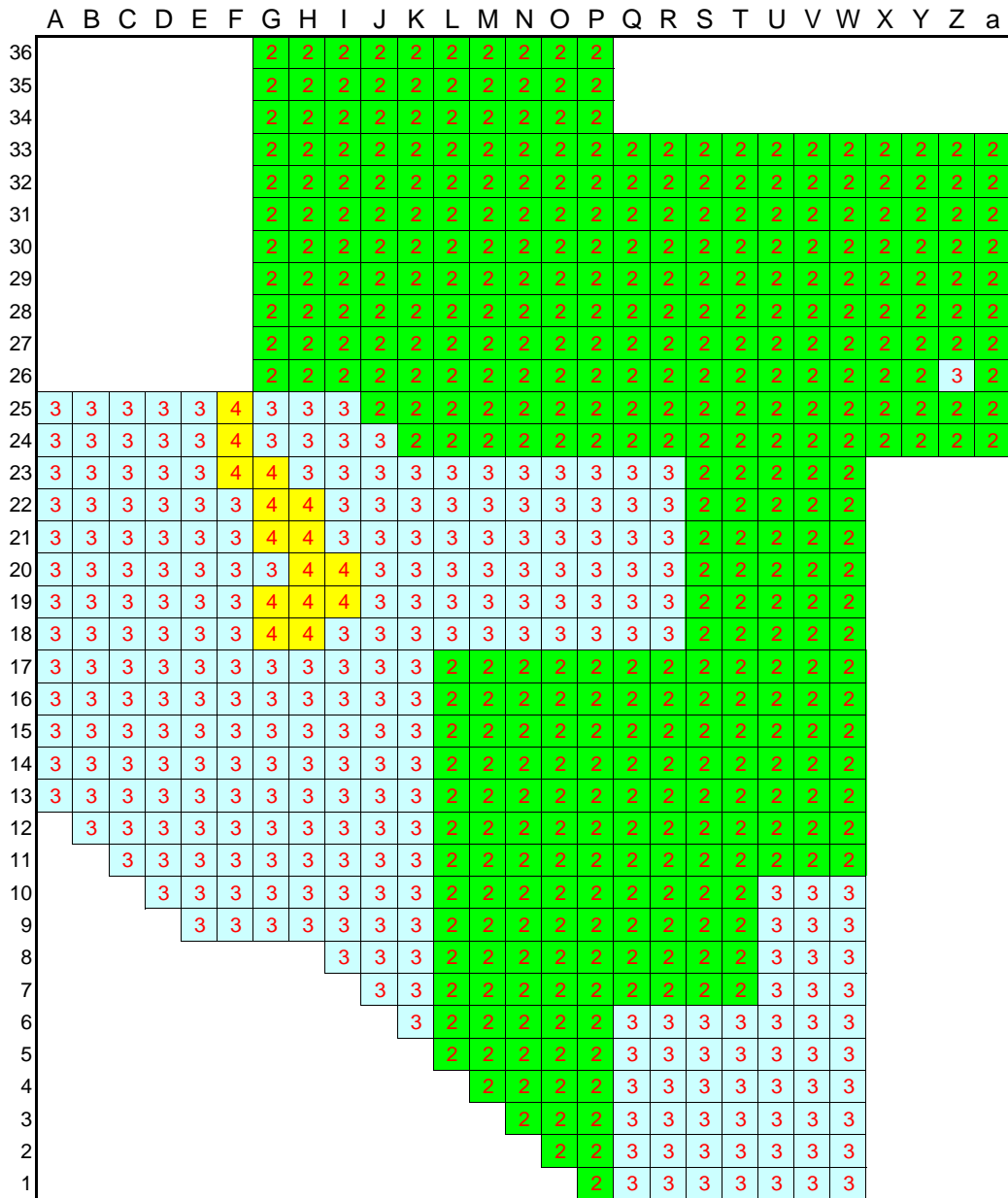
Data 7-7 As : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use and Groundwater



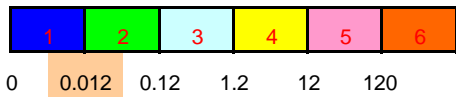
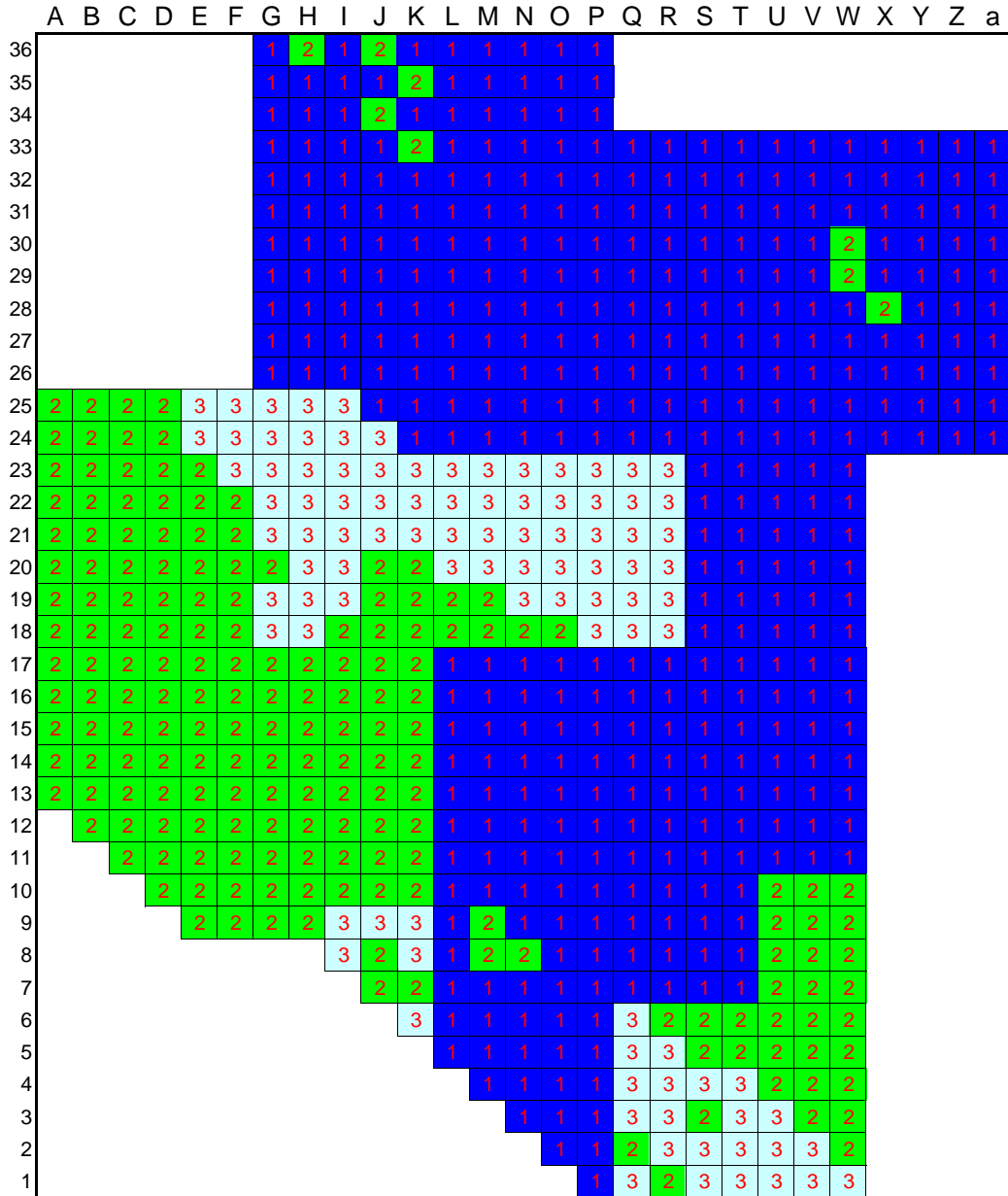
Data 7-7 Cd : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use and Groundwater



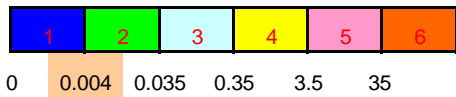
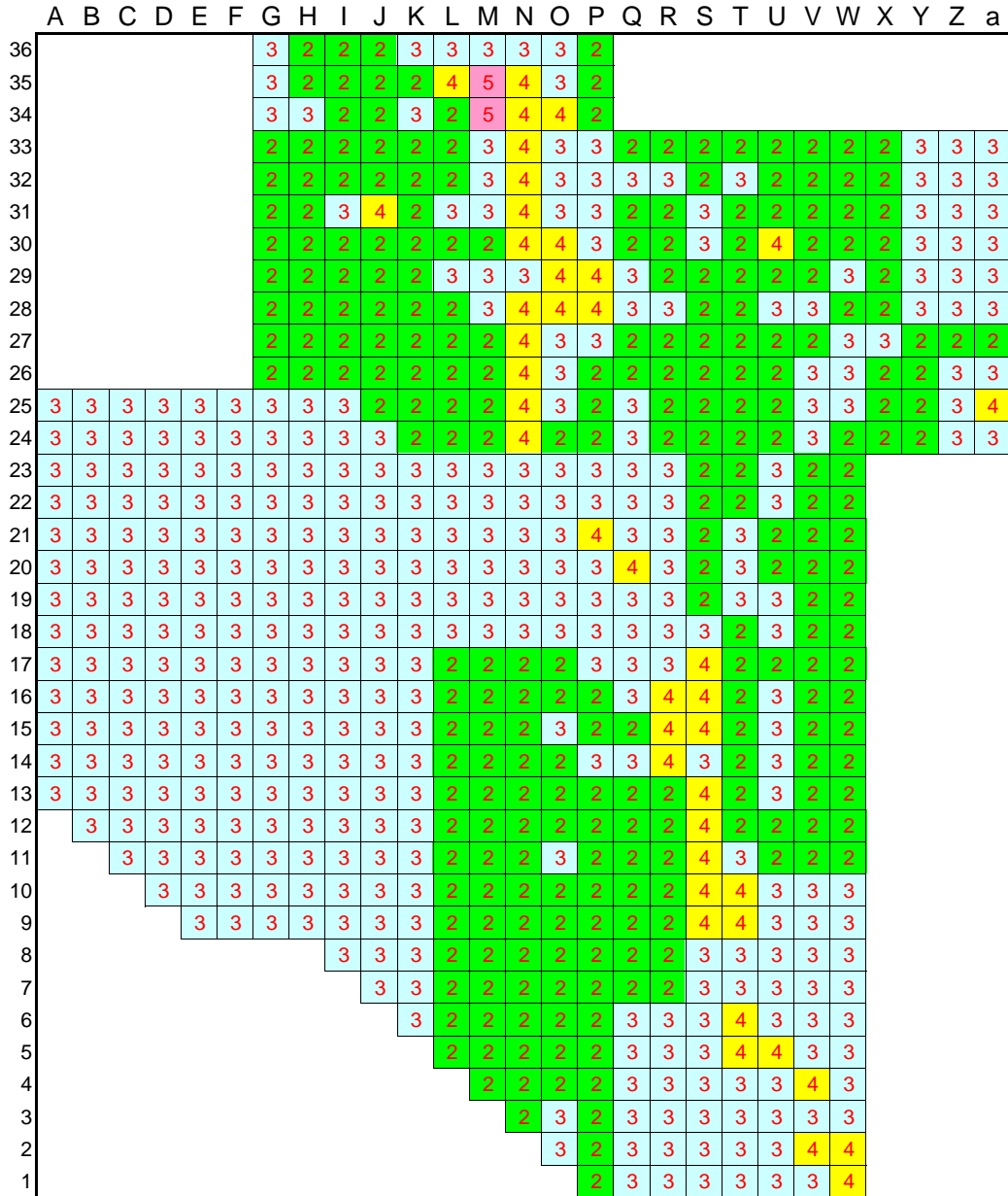
Data 7-7 Hg : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use and Groundwater



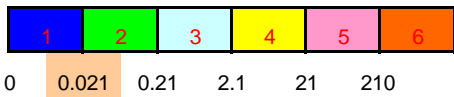
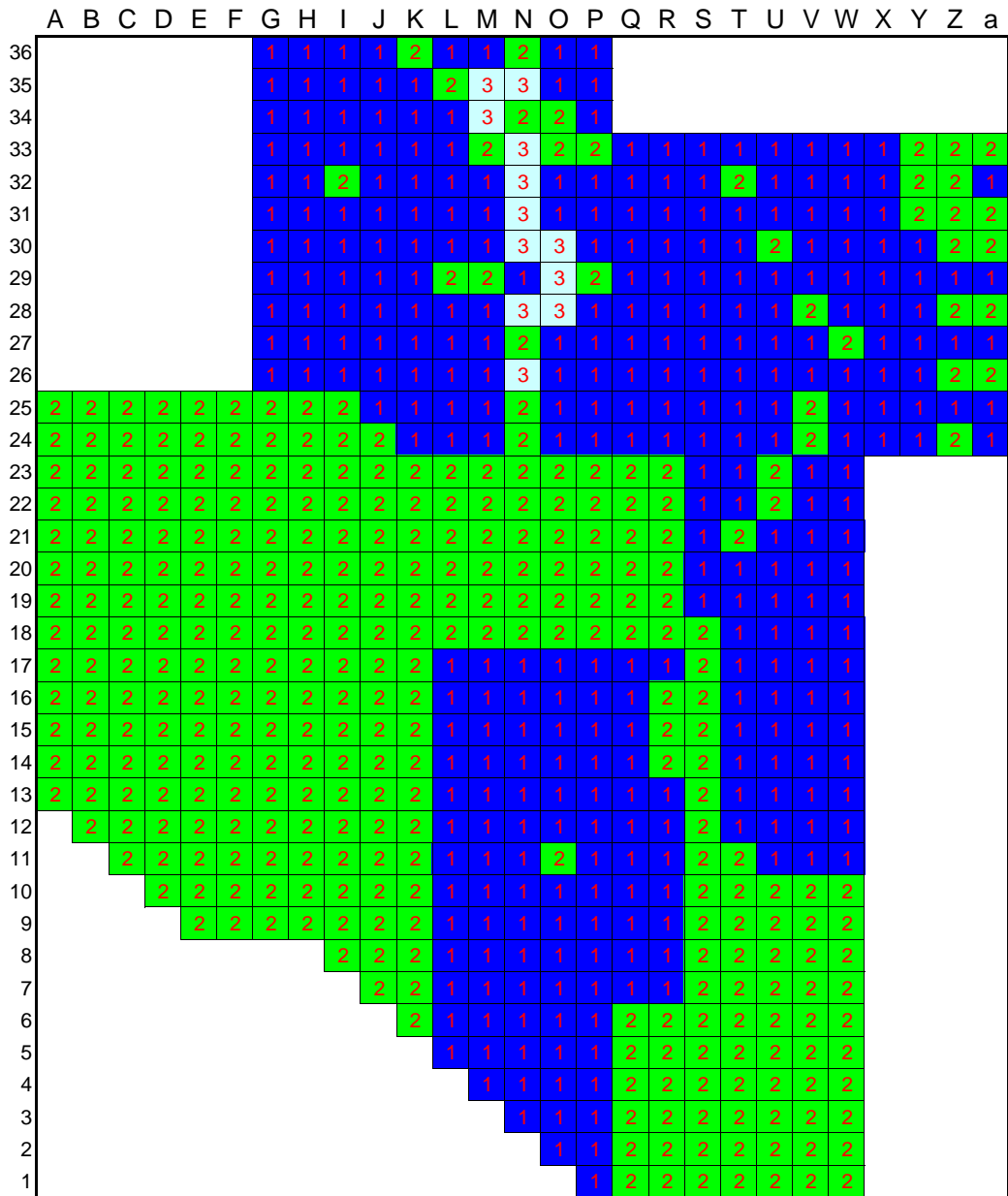
Data 7-7 Ni : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use and Groundwater



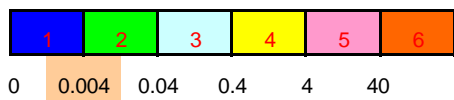
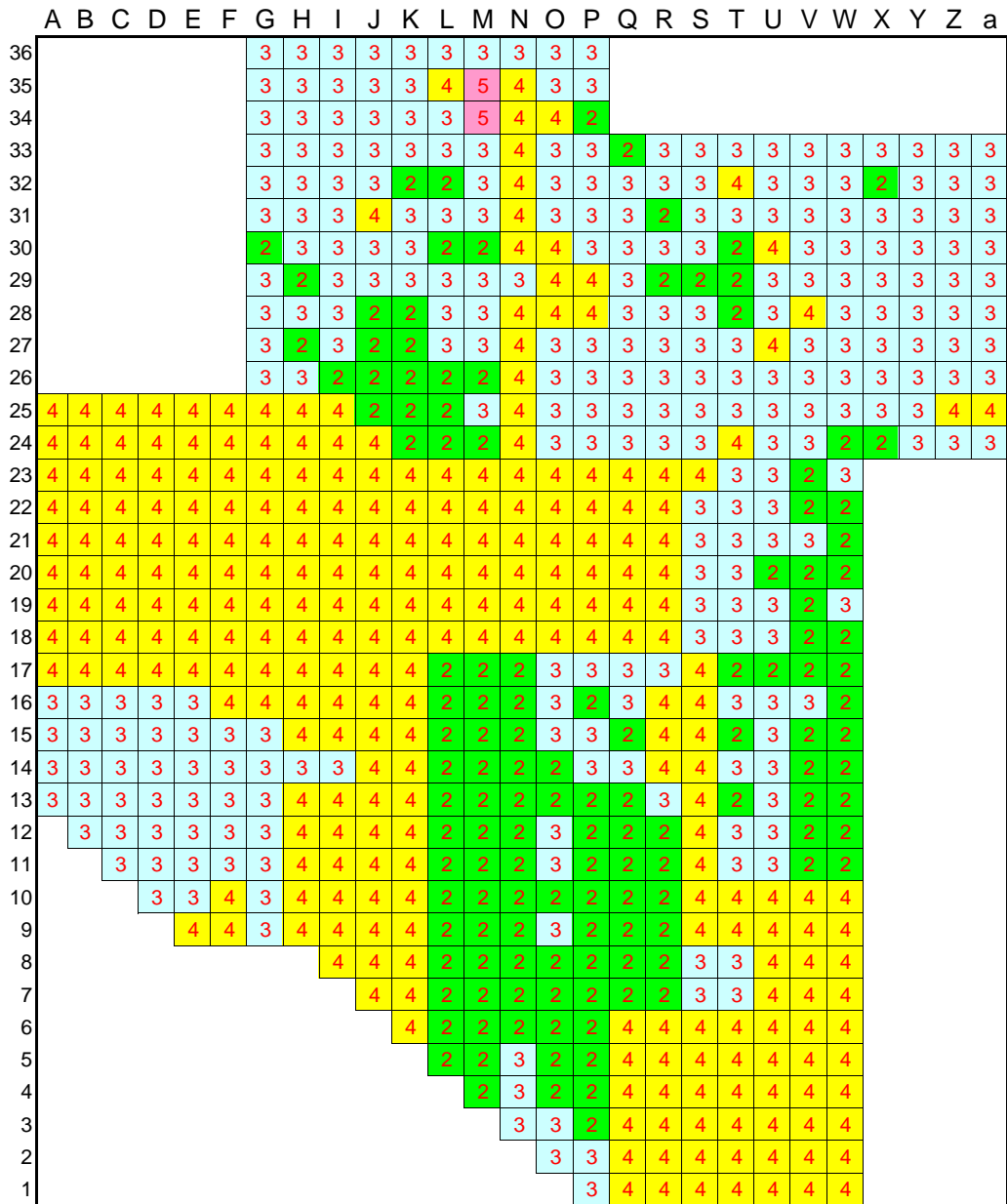
Data 7-7 Pb : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use and Groundwater



Data 7-7 Zn : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use and Groundwater

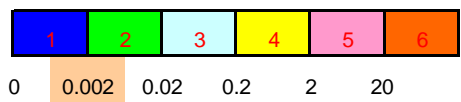
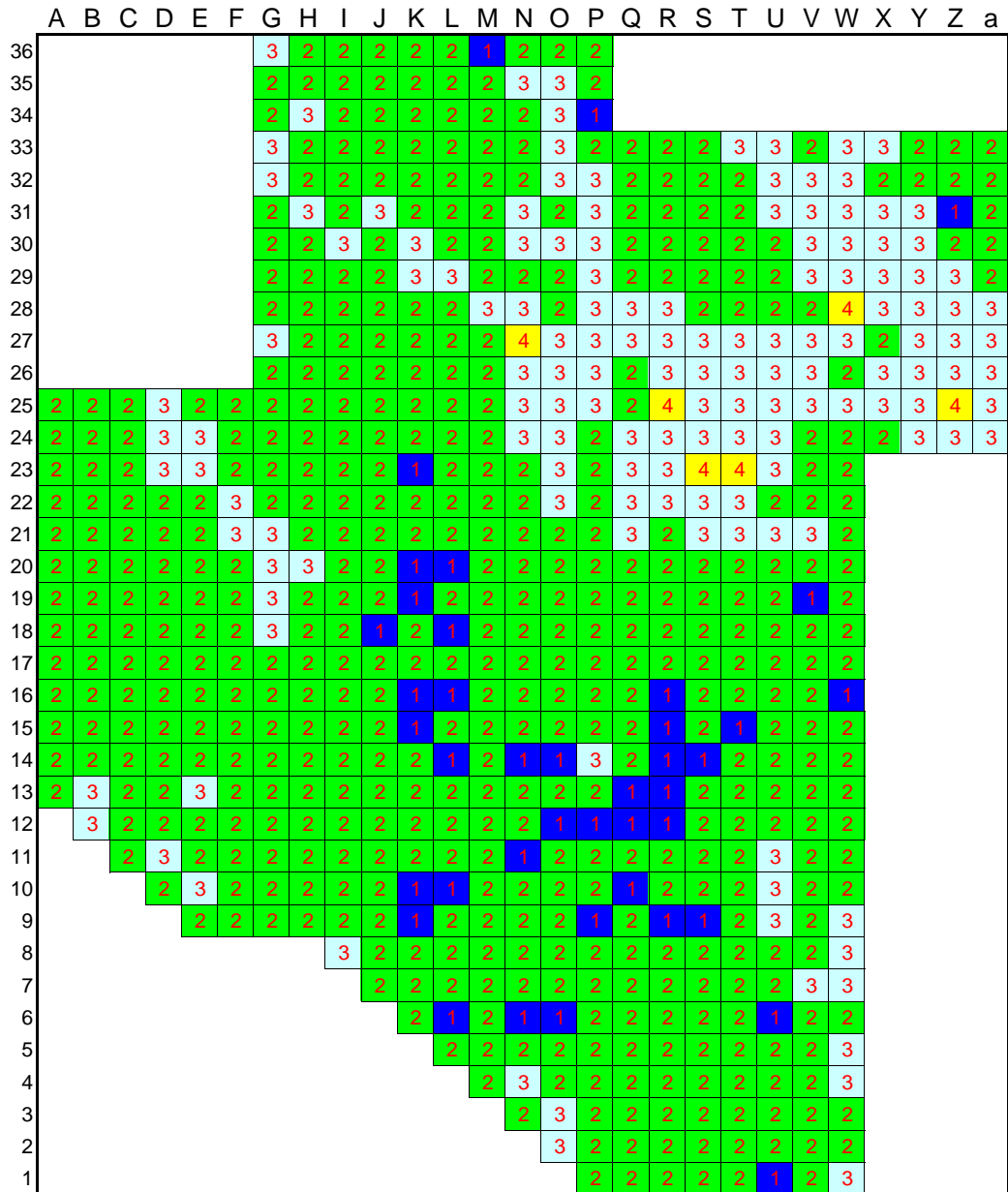


Data 7-7 Total : Exposure Risk of Heavy Metals in Soil Charactrised by Land-use and Groundwater

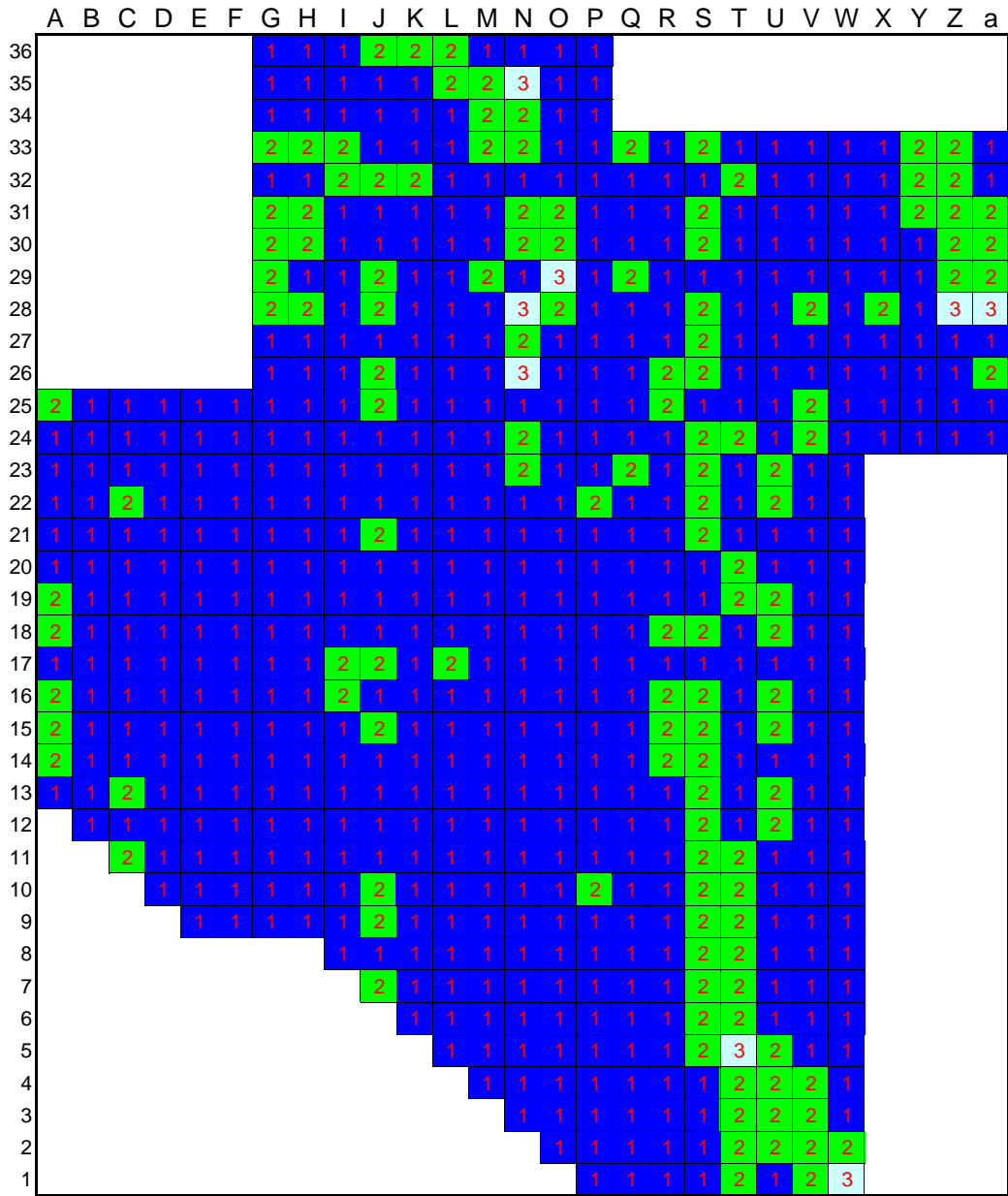


**Data 7-8 Exposure Risk of Heavy Metals in Soil,
Case -1: Implementation of Alternative-1
in All of Priority No.1 ~ No.5 Area**

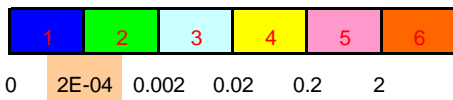
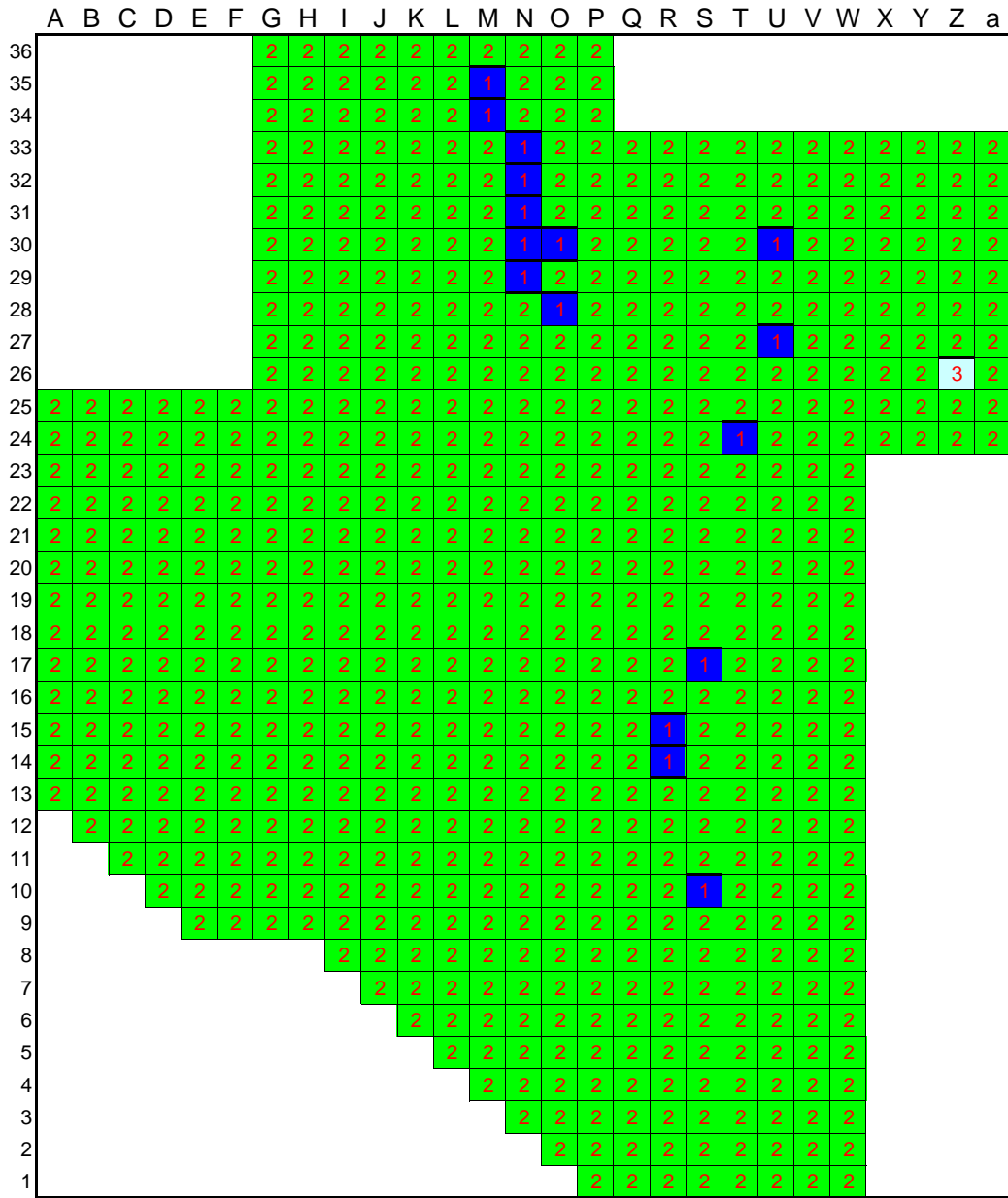
Data 7-8 As : Exposure Risk of Heavy Metals in Soil : Case-1 Counter-measures



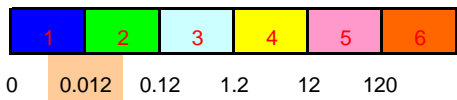
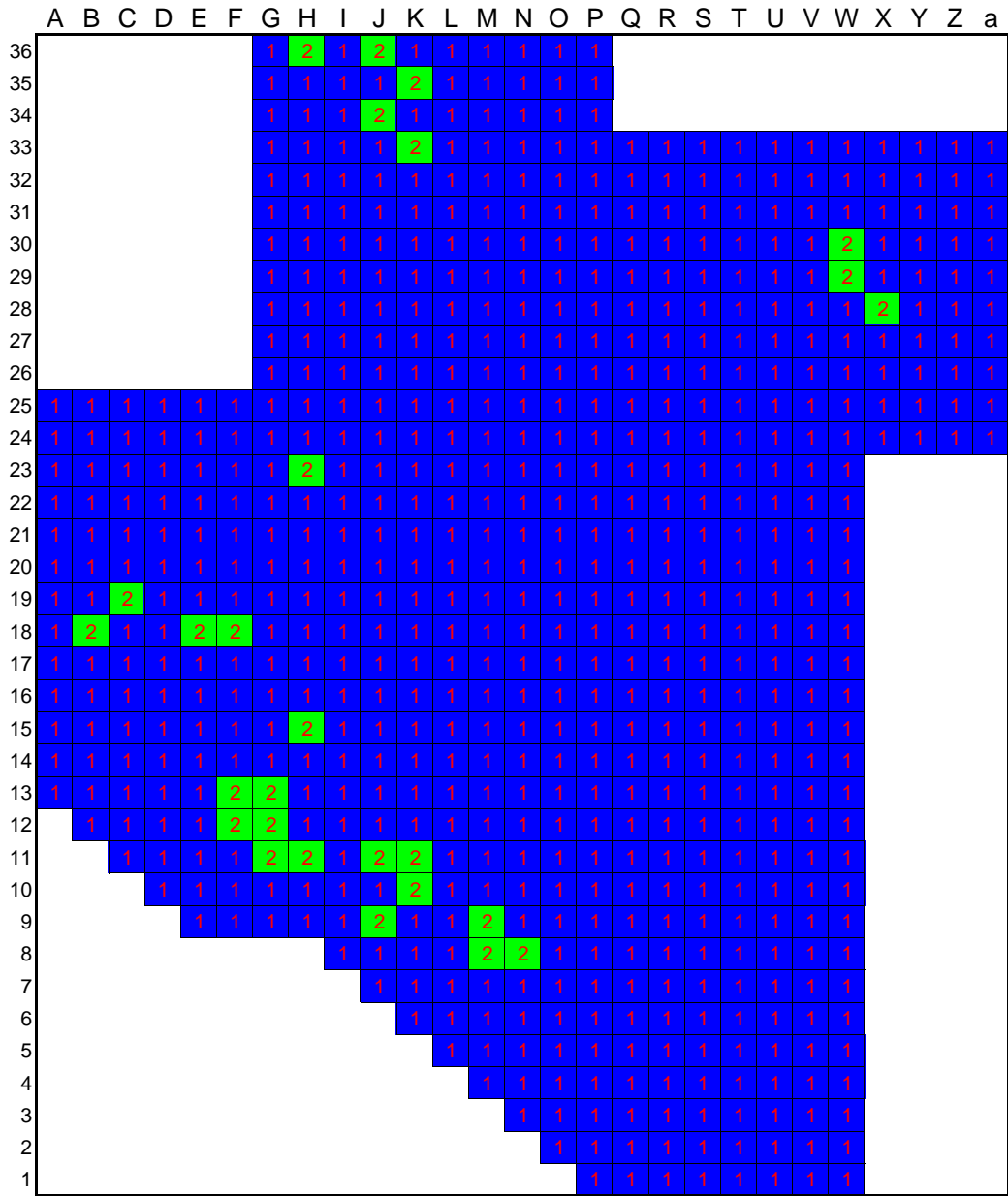
**Data 7-8 Cd : Exposure Risk of Heavy Metals in Soil
: Case-1 Counter-measures**



Data 7-8 Hg : Exposure Risk of Heavy Metals in Soil : Case-1 Counter-measures

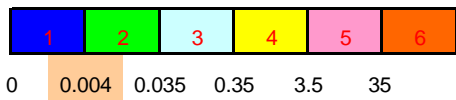


Data 7-8 Ni : Exposure Risk of Heavy Metals in Soil : Case-1 Counter-measures

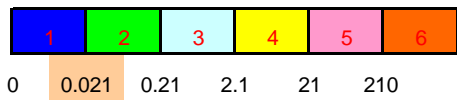
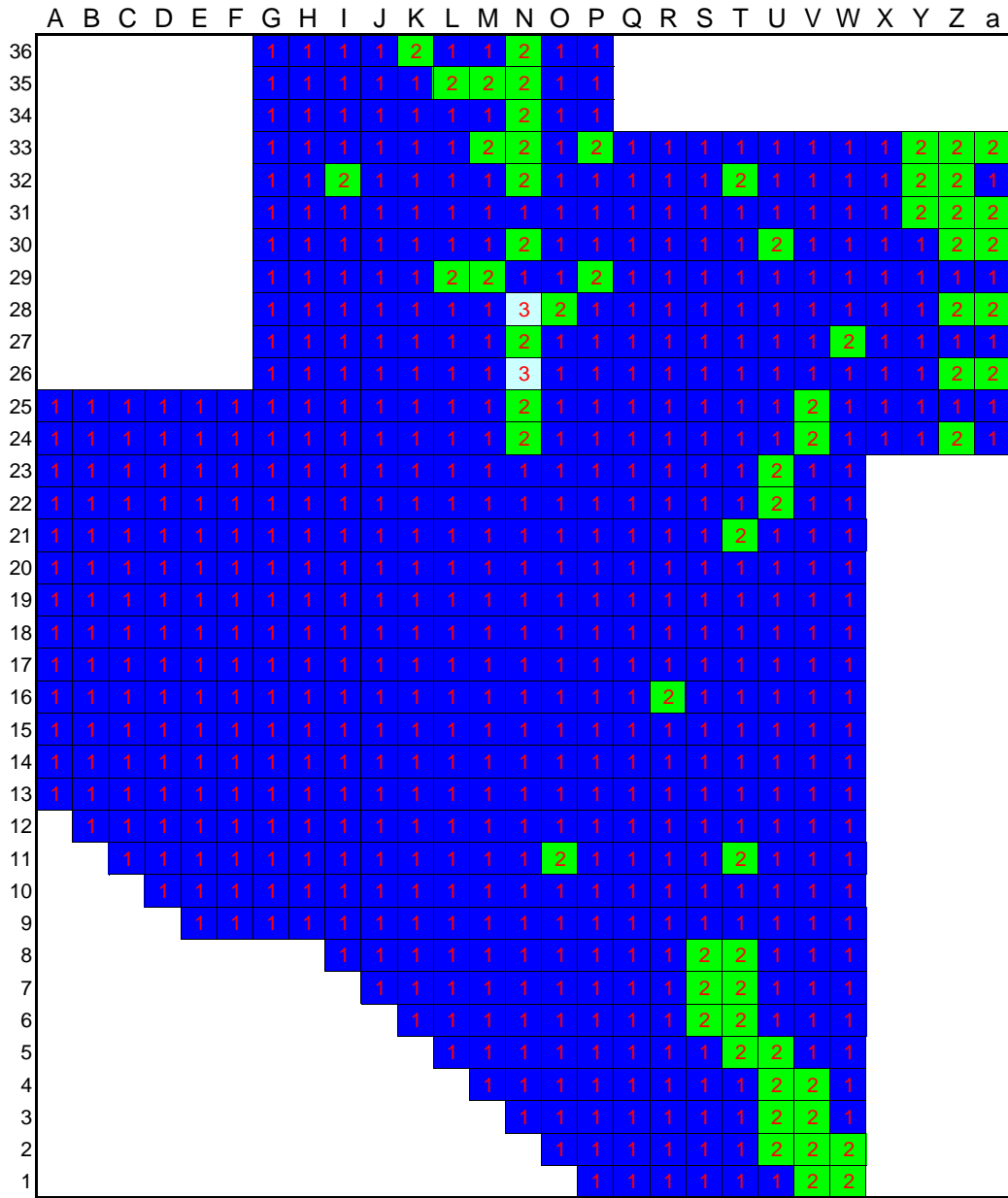


Data 7-8 Pb : Exposure Risk of Heavy Metals in Soil : Case-1 Counter-measures

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Data 7-8 Zn : Exposure Risk of Heavy Metals in Soil : Case-1 Counter-measures



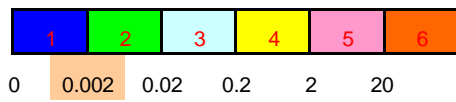
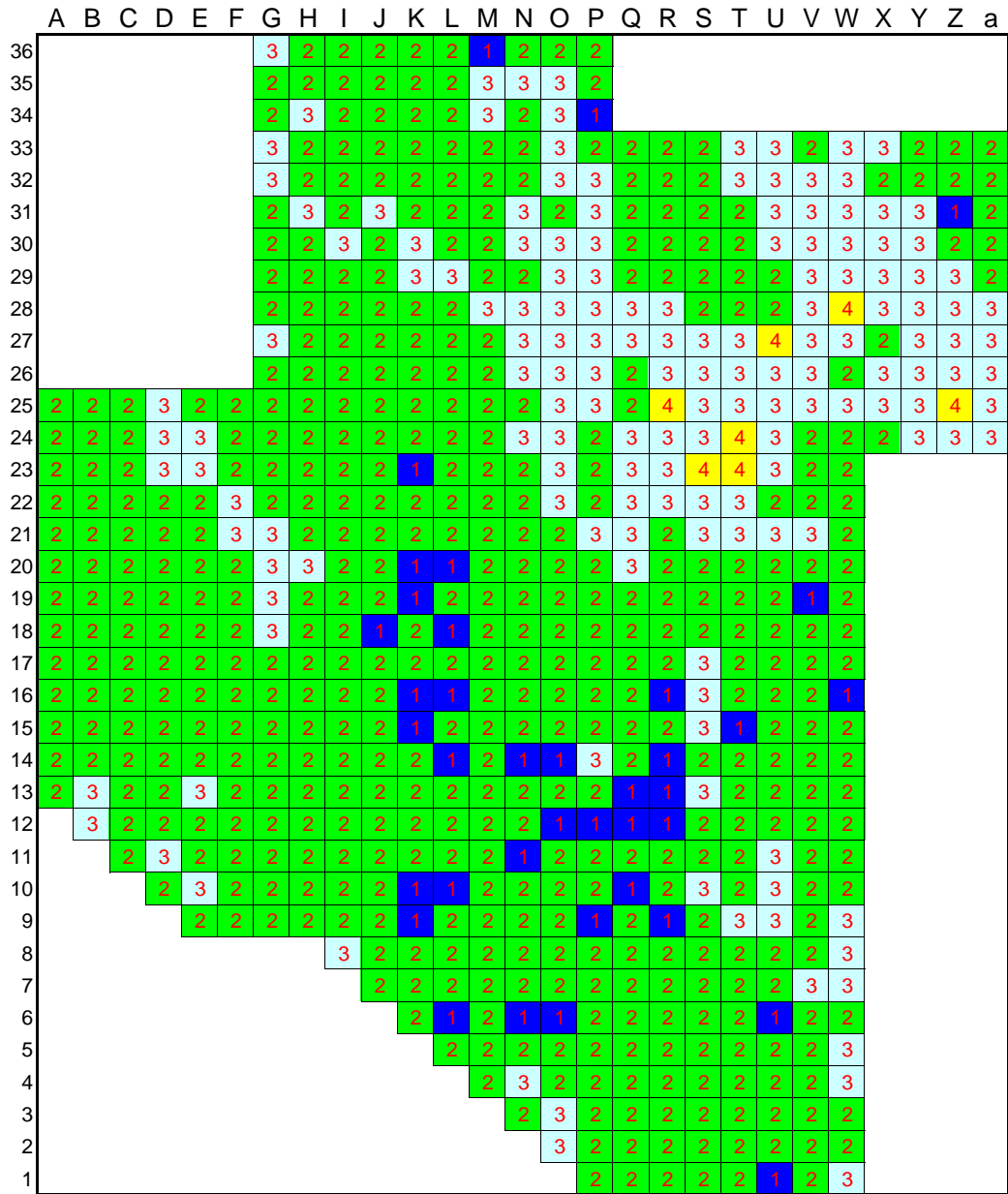
Data 7-8 Total : Exposure Risk of Heavy Metals in Soil : Case-1 Counter-measures

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a
36							3	3	3	3	3	3	3	3	3	3											
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4												2	3	2	2	2	2	3	3	3	3	3					
3													3	3	2	2	2	2	3	3	3	3					
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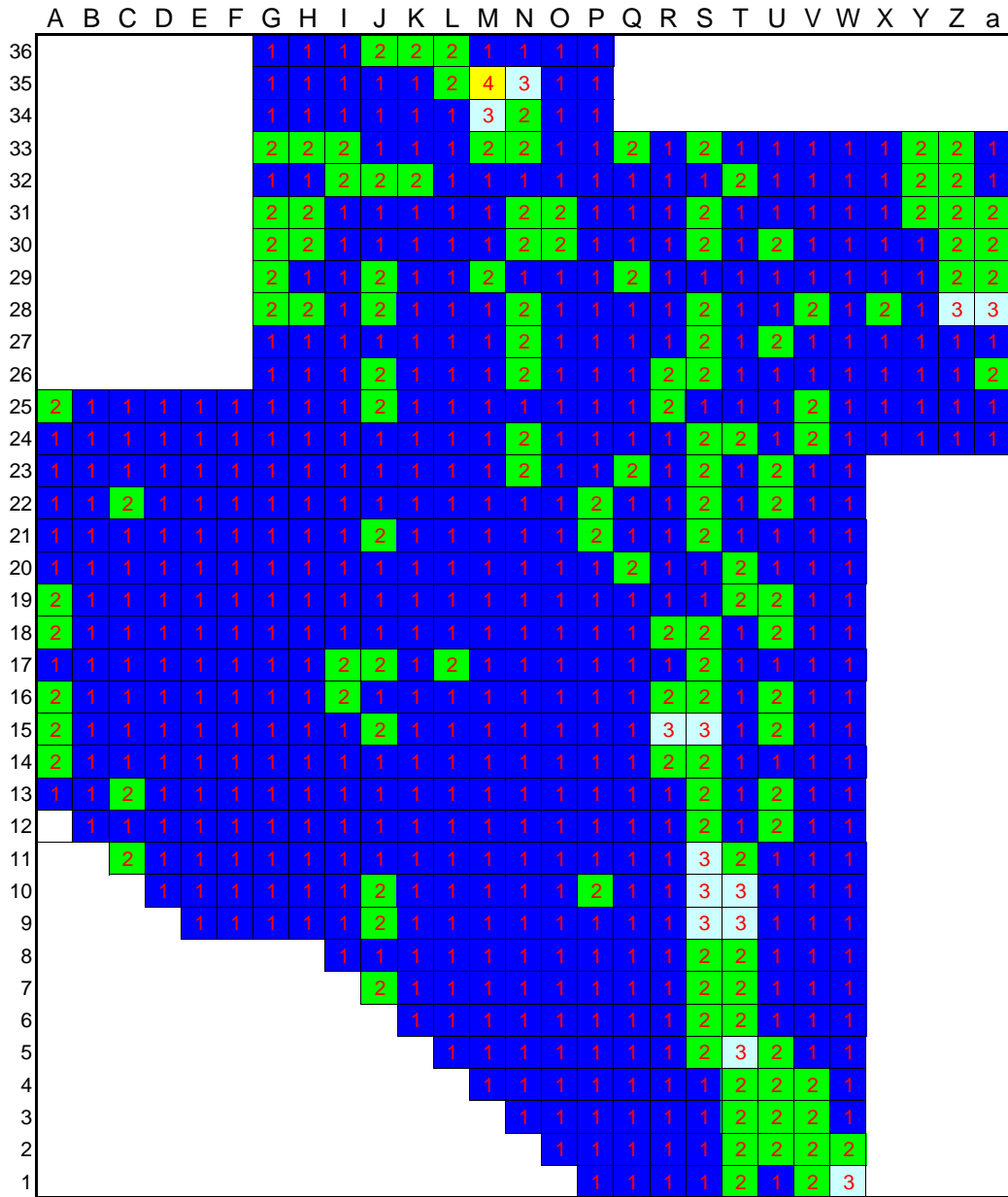


**Data 7-9 Exposure Risk of Heavy Metals in Soil,
Case -2: Implementation of Alternative-1
in All of Priority No.1 Area**

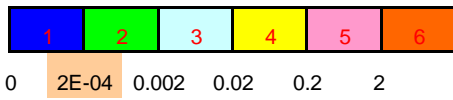
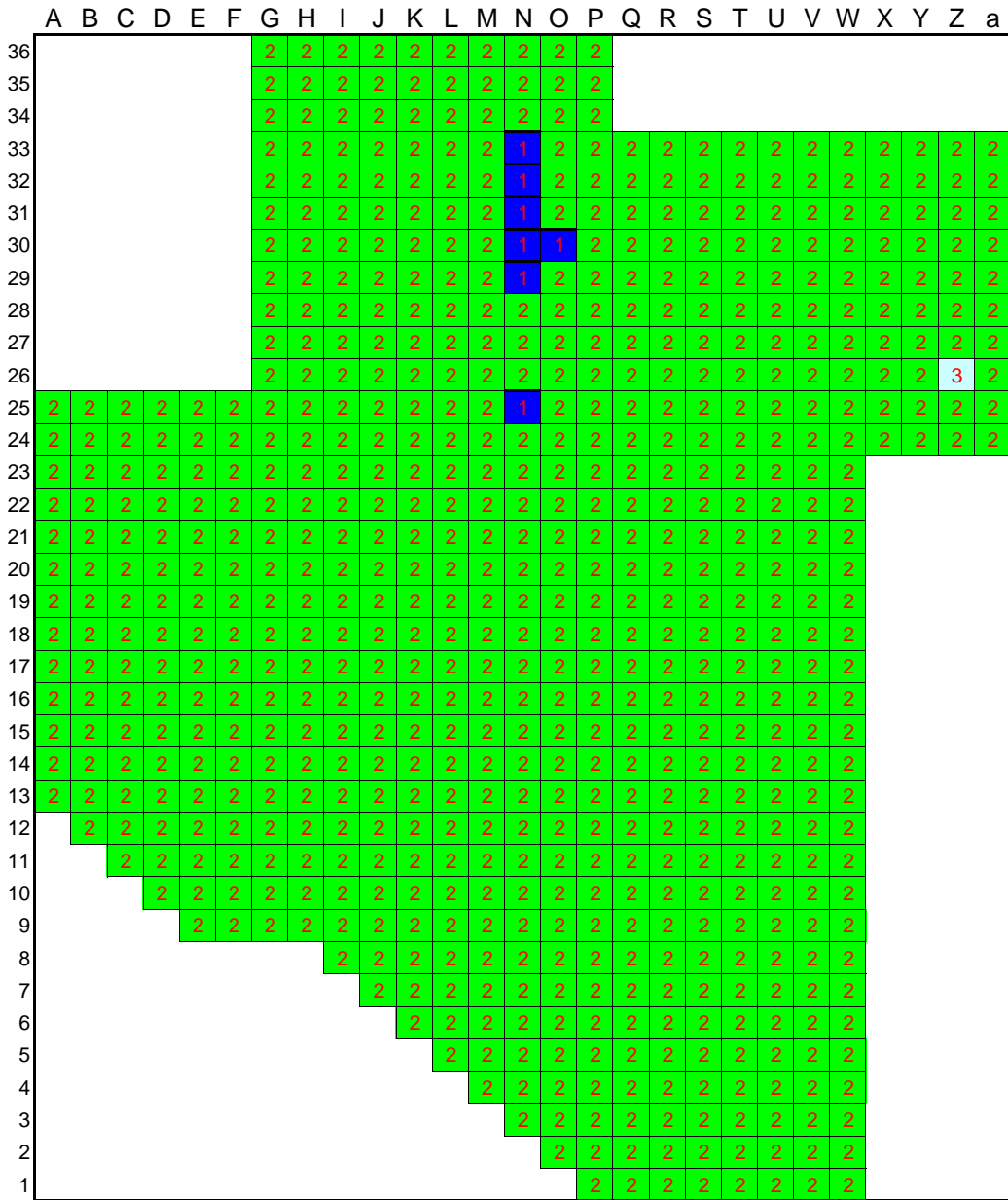
Data 7-9 As : Exposure Risk of Heavy Metals in Soil : Case-2 Counter-measures



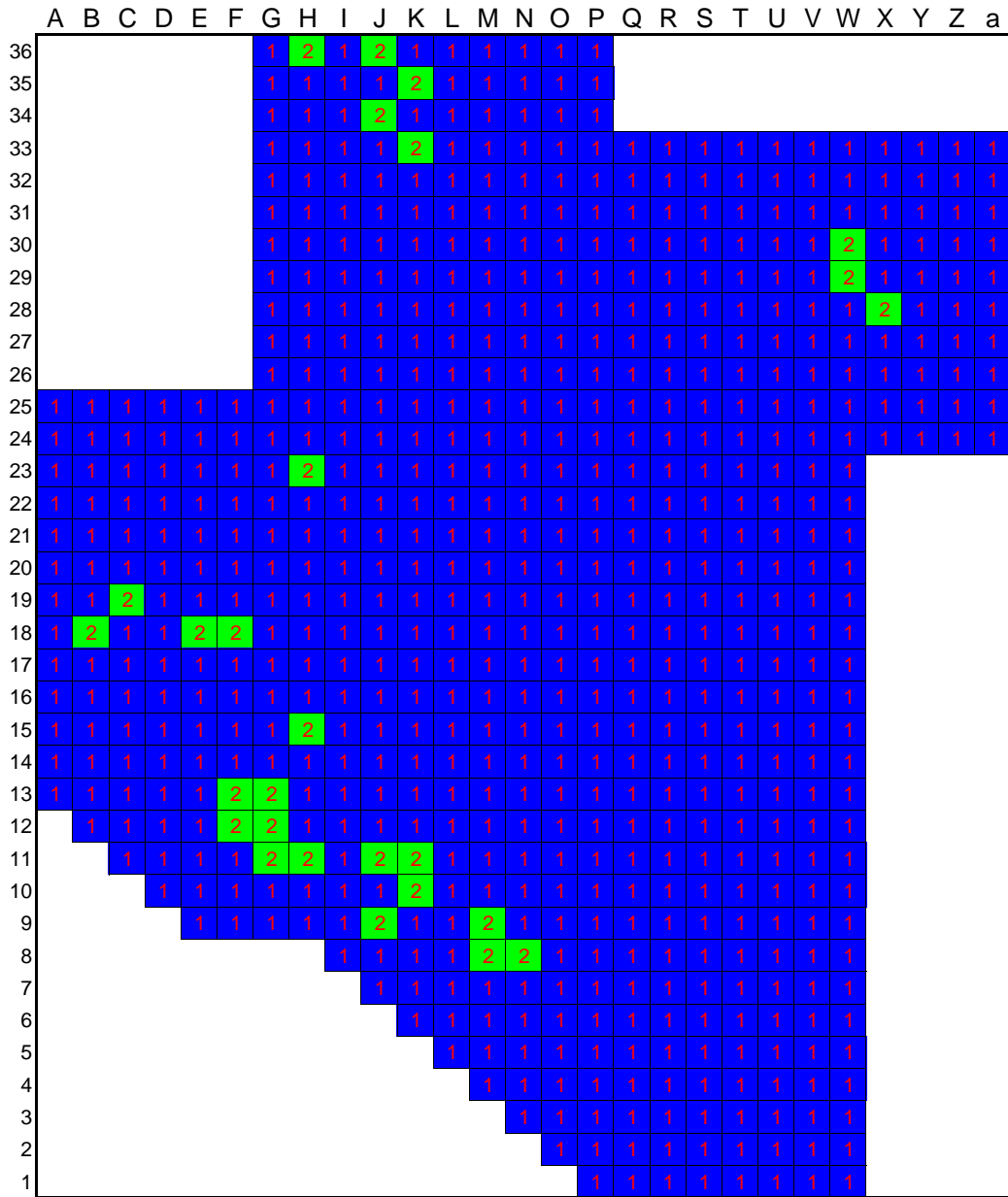
Data 7-9 Cd : Exposure Risk of Heavy Metals in Soil : Case-2 Counter-measures



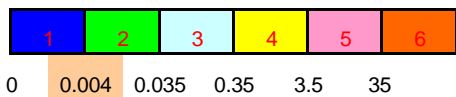
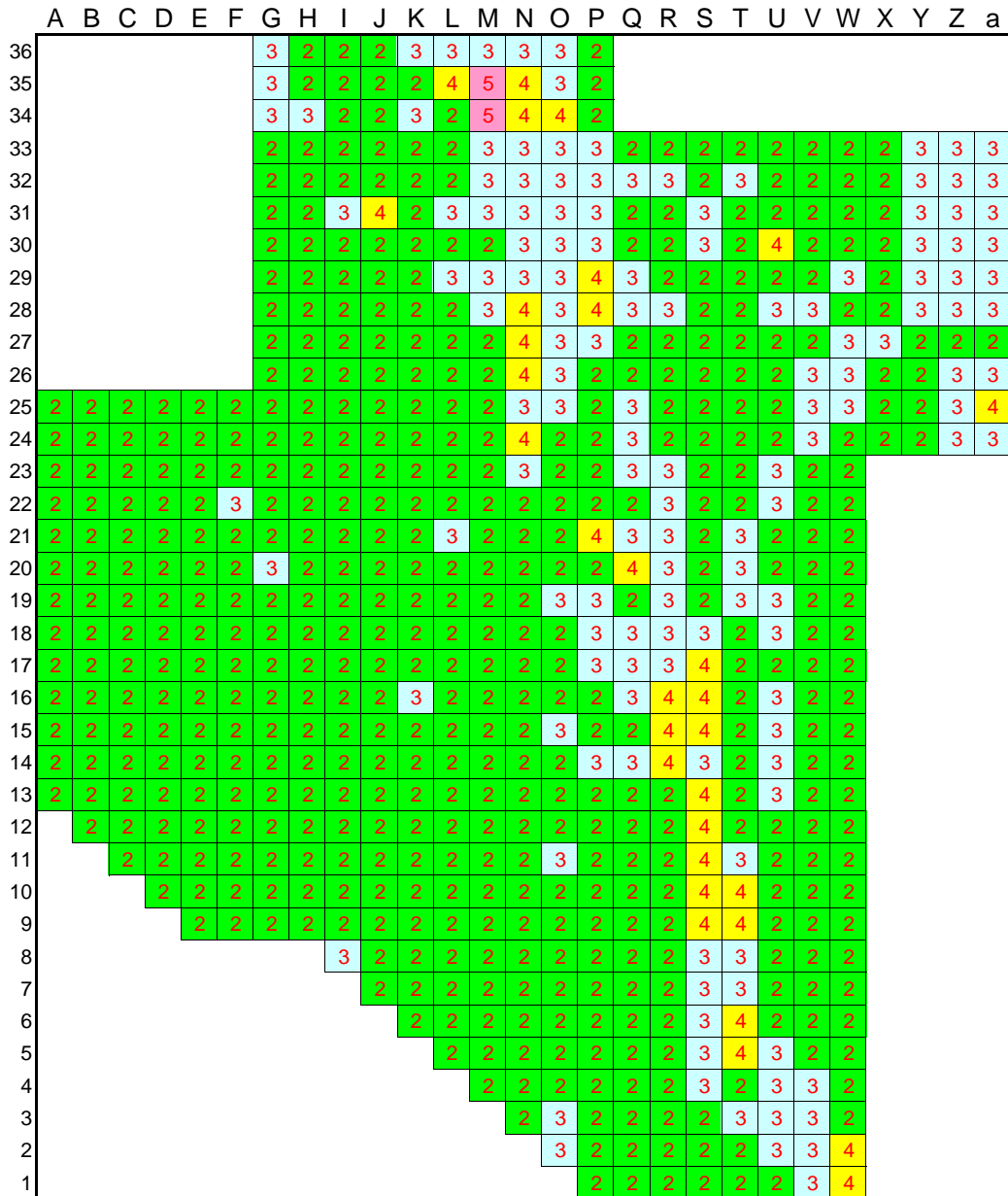
Data 7-9 Hg : Exposure Risk of Heavy Metals in Soil : Case-2 Counter-measures



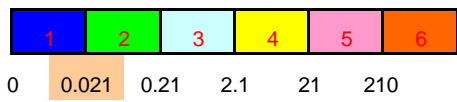
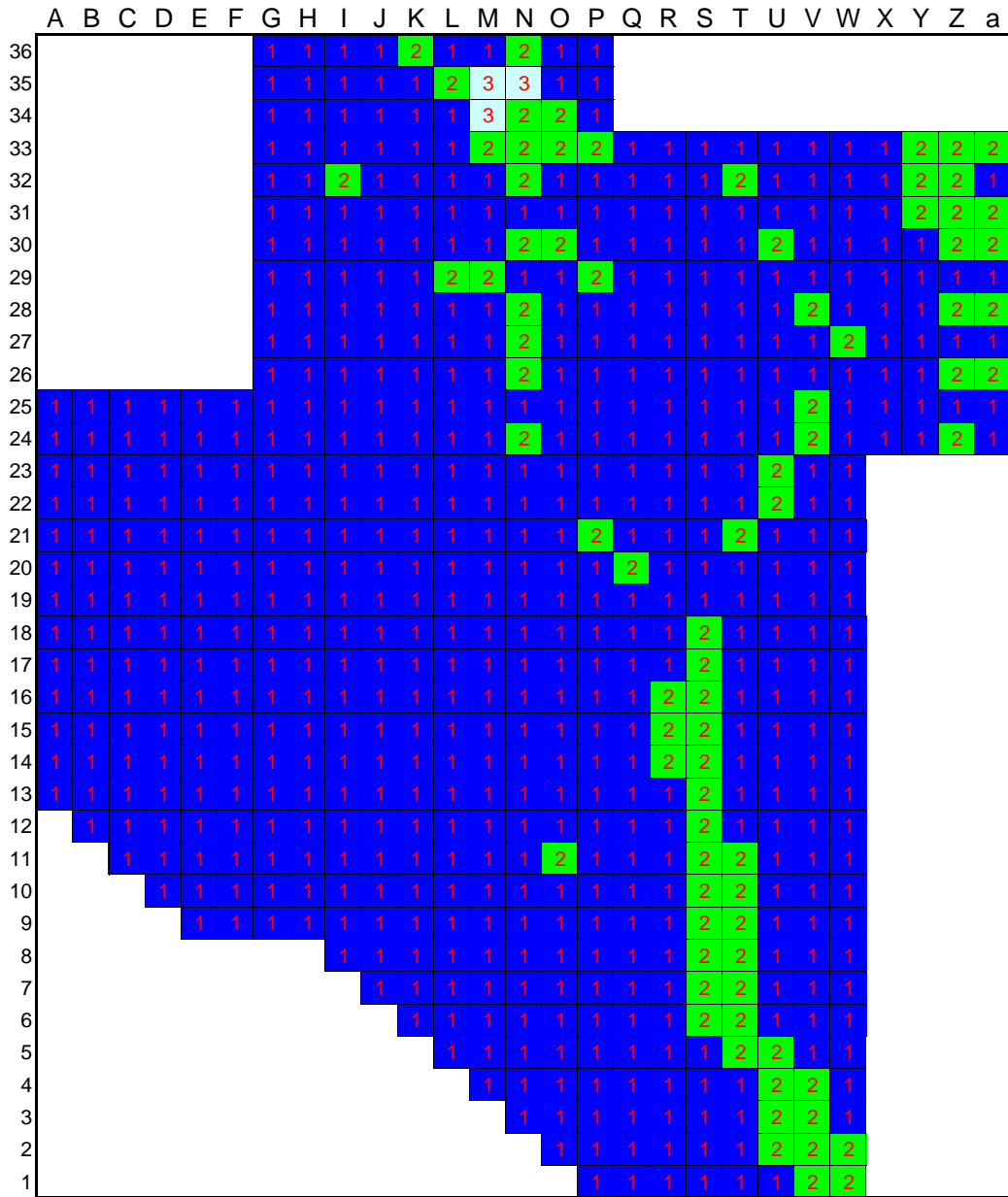
Data 7-9 Ni : Exposure Risk of Heavy Metals in Soil : Case-2 Counter-measures



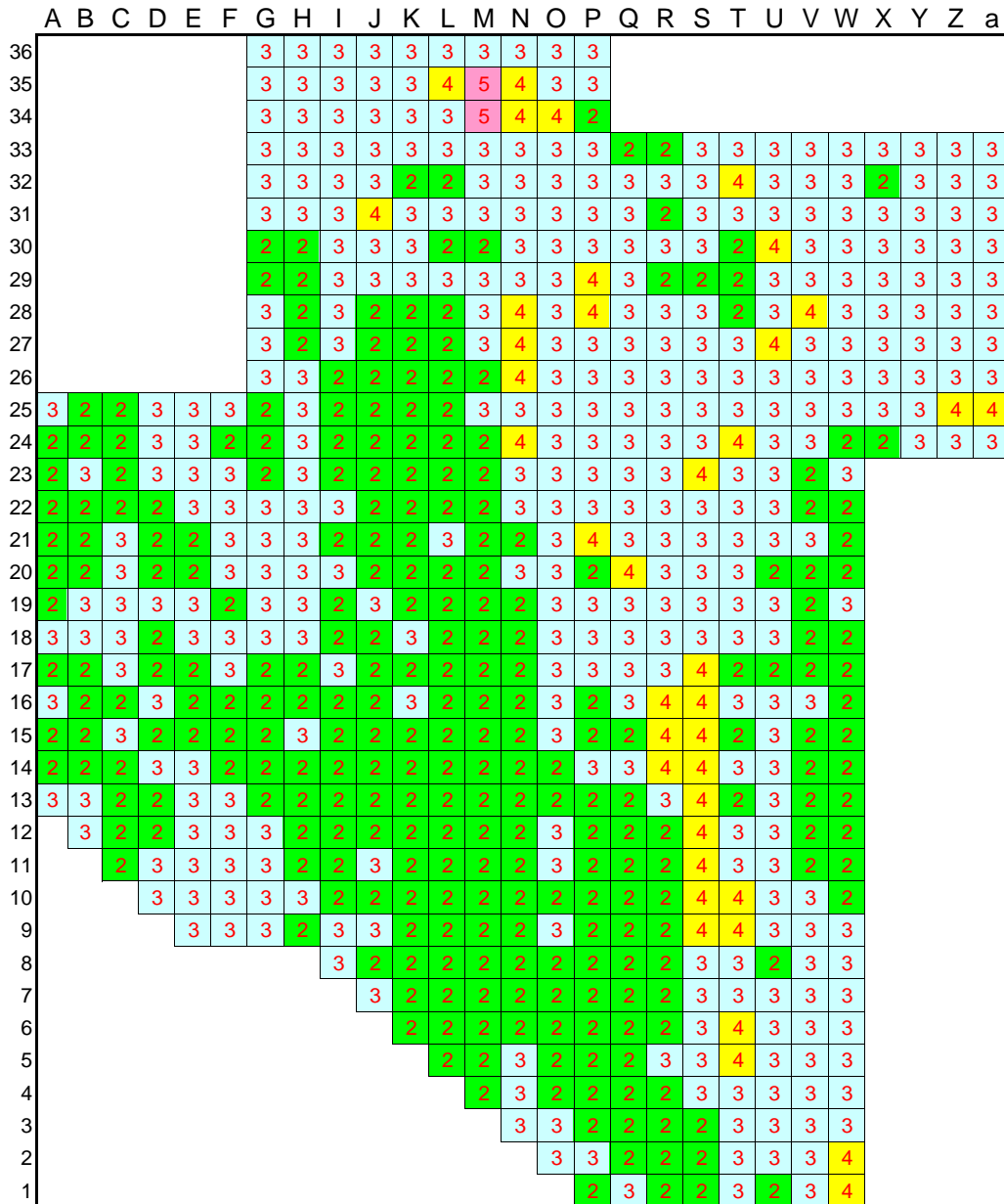
Data 7-9 Pb : Exposure Risk of Heavy Metals in Soil : Case-2 Counter-measures



Data 7-9 Zn : Exposure Risk of Heavy Metals in Soil : Case-2 Counter-measures

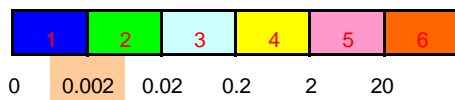
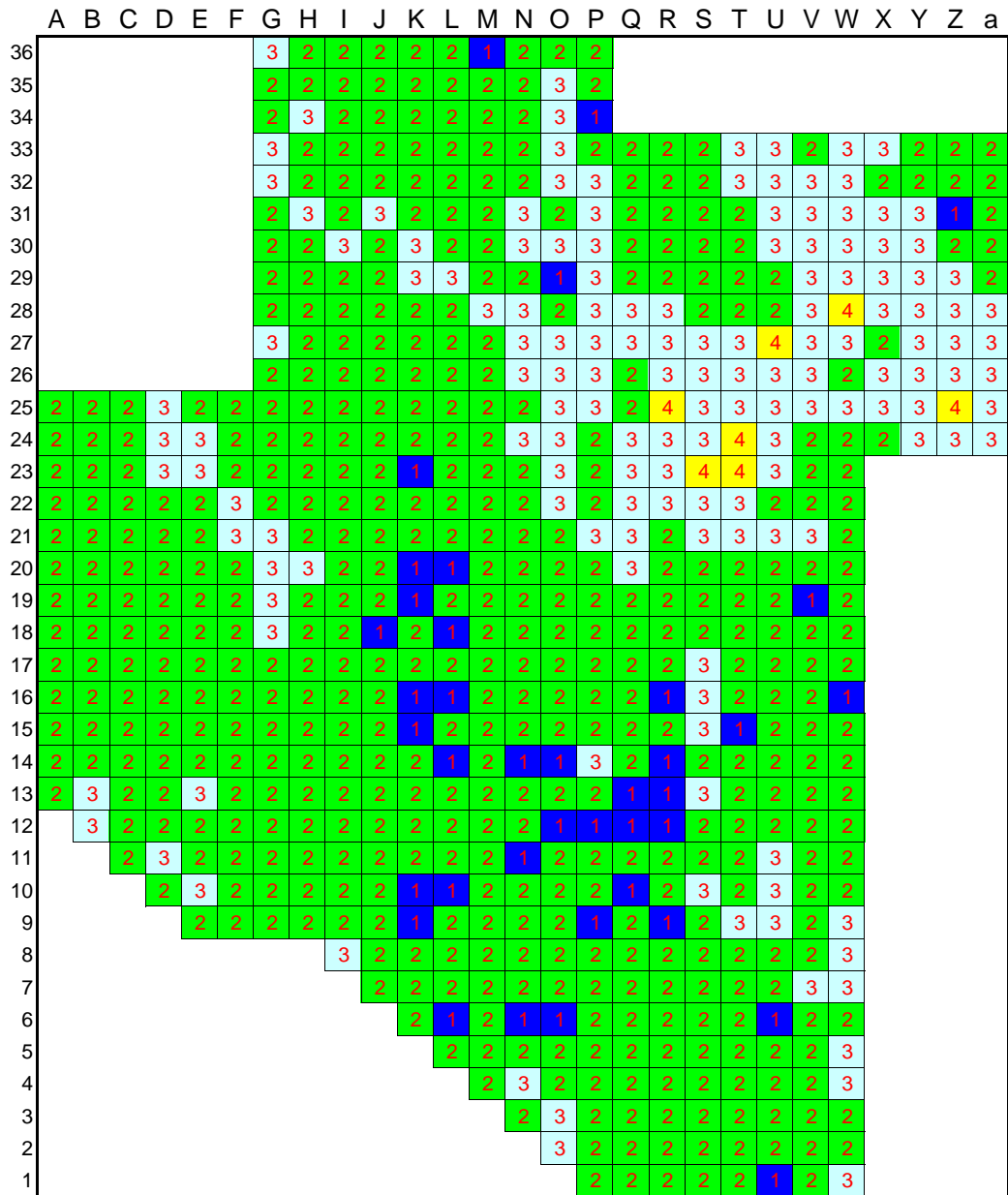


Data 7-9 Total : Exposure Risk of Heavy Metals in Soil : Case-2 Counter-measures

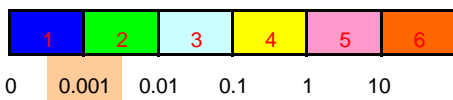
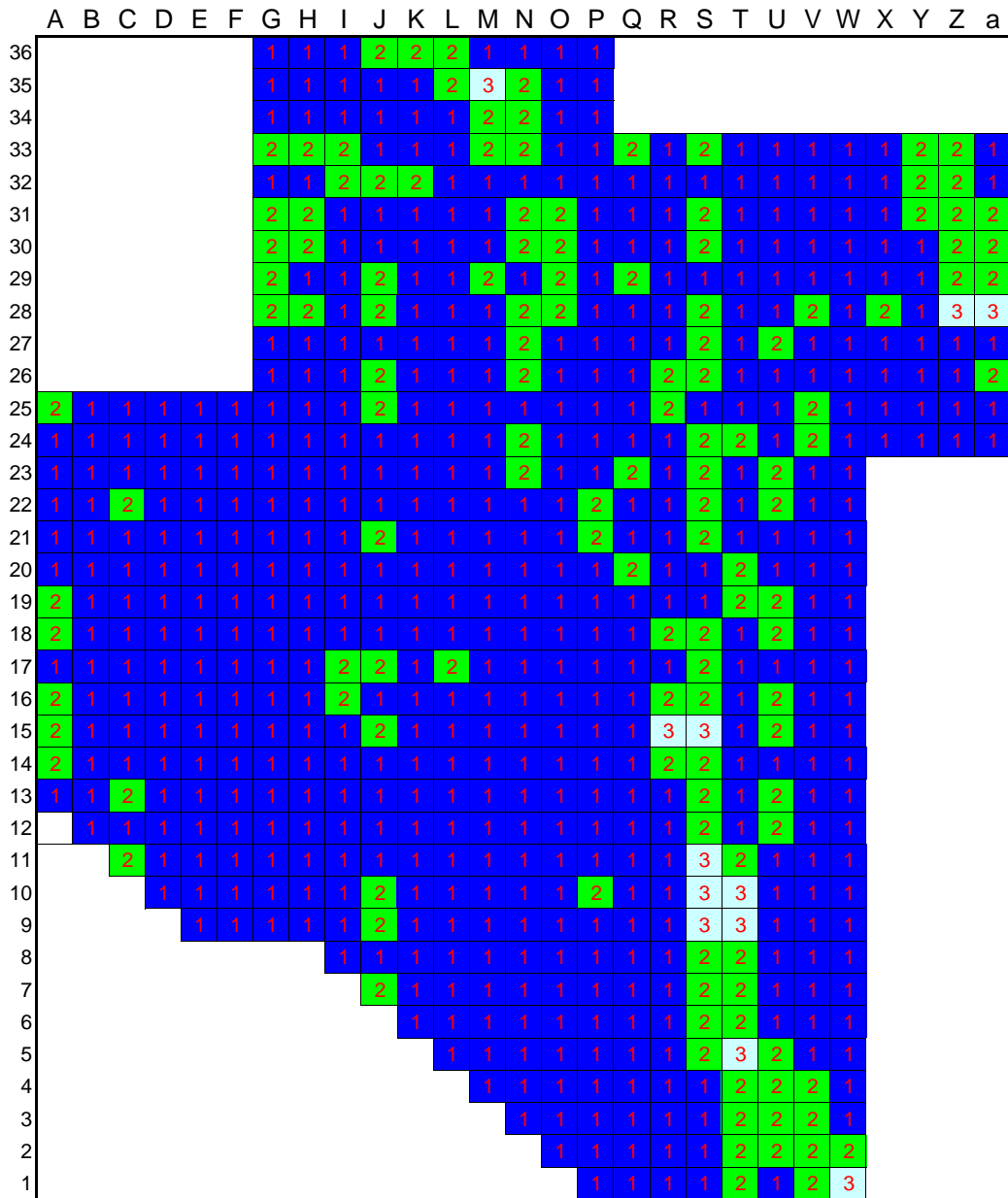


**Data 7-10 Exposure Risk of Heavy Metals in Soil,
Case -3: Implementation of Alternative-2
in All of Priority No.1 to No.5 Area**

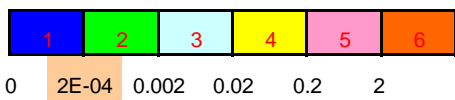
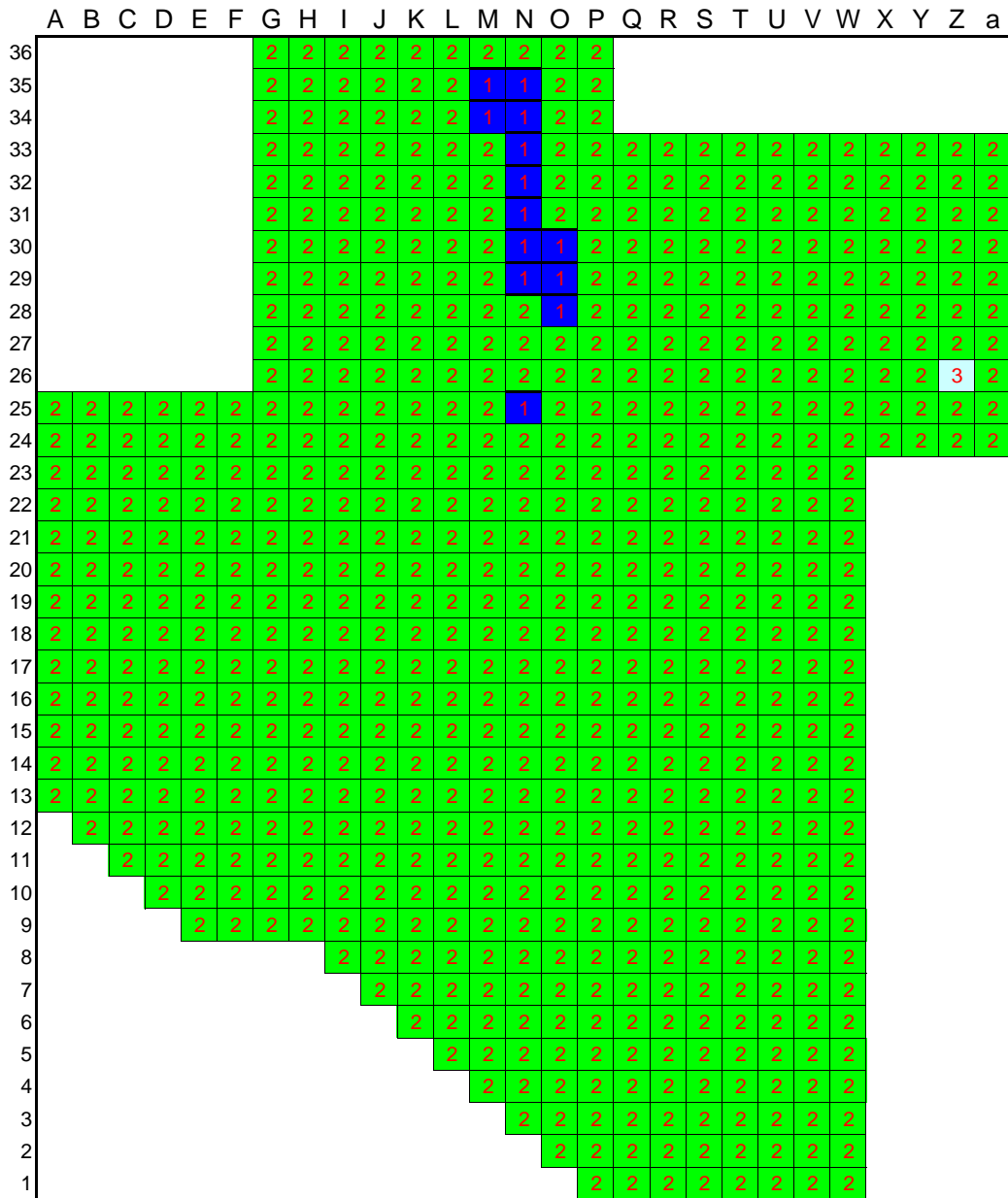
Data 7-10 As : Exposure Risk of Heavy Metals in Soil : Case-3 Counter-measures



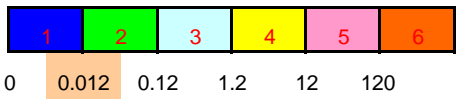
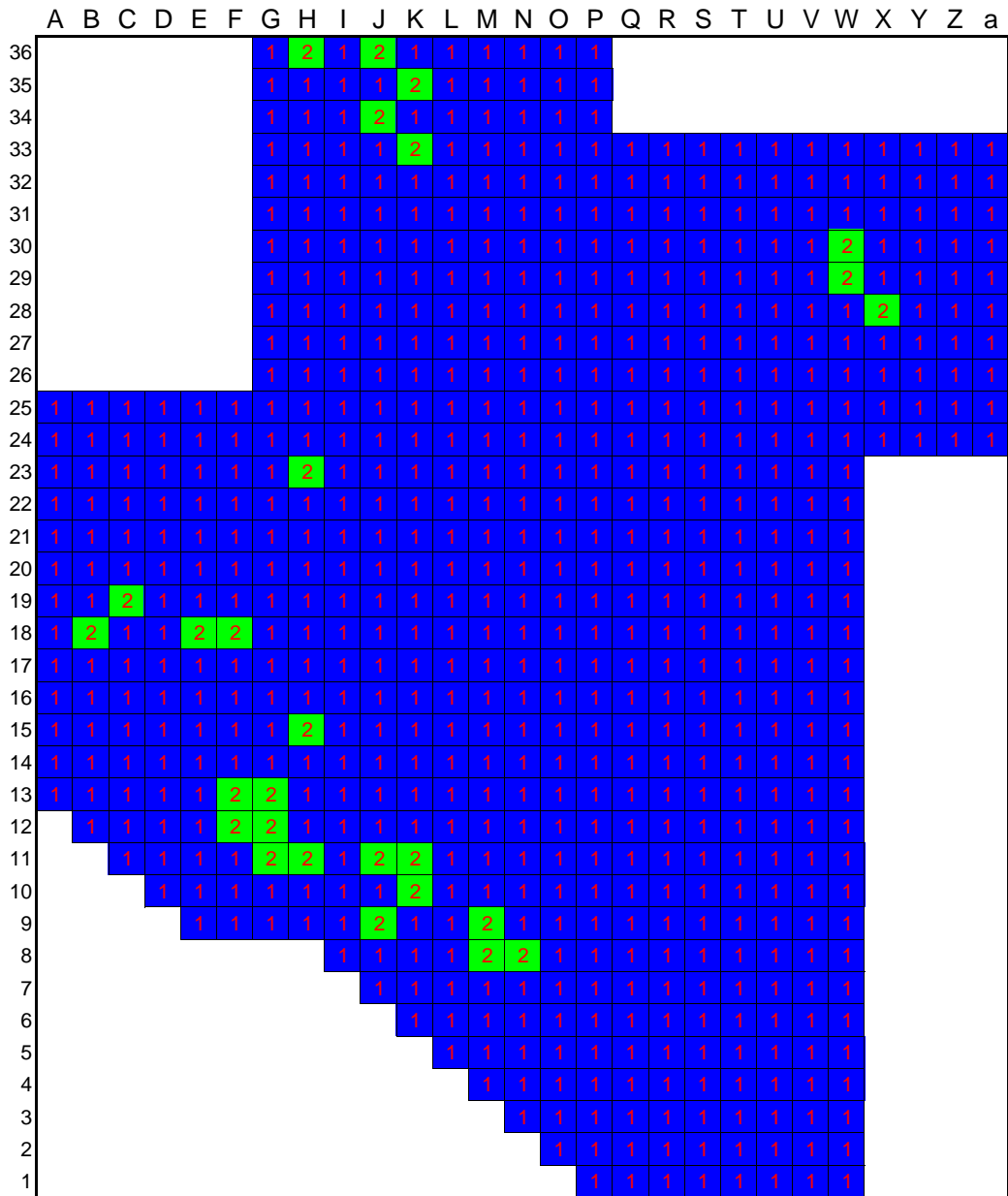
Data 7-10 Cd : Exposure Risk of Heavy Metals in Soil : Case-3 Counter-measures



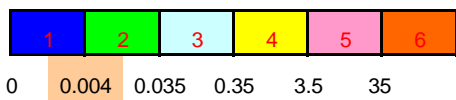
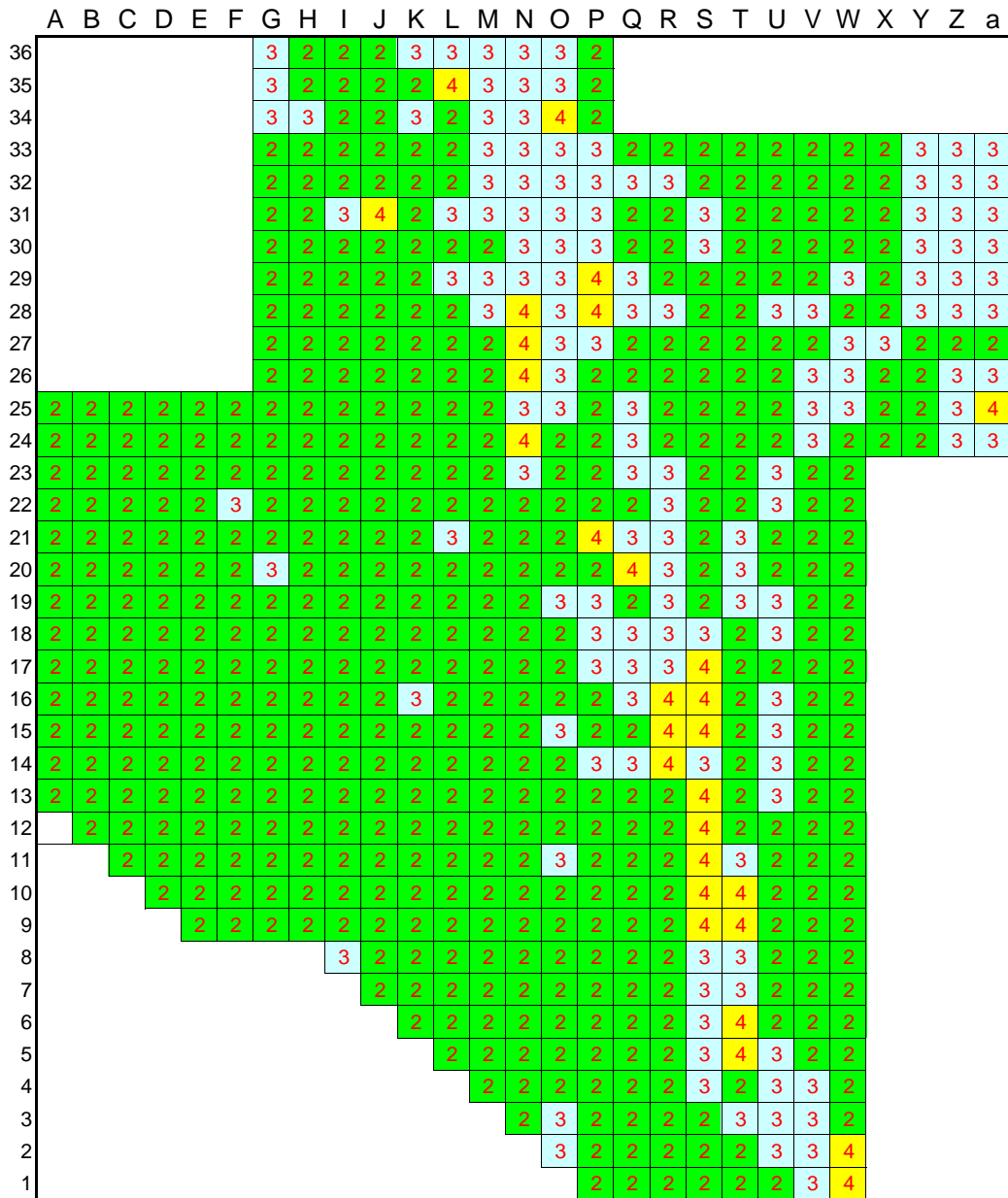
Data 7-10 Hg : Exposure Risk of Heavy Metals in Soil : Case-3 Counter-measures



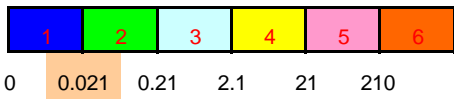
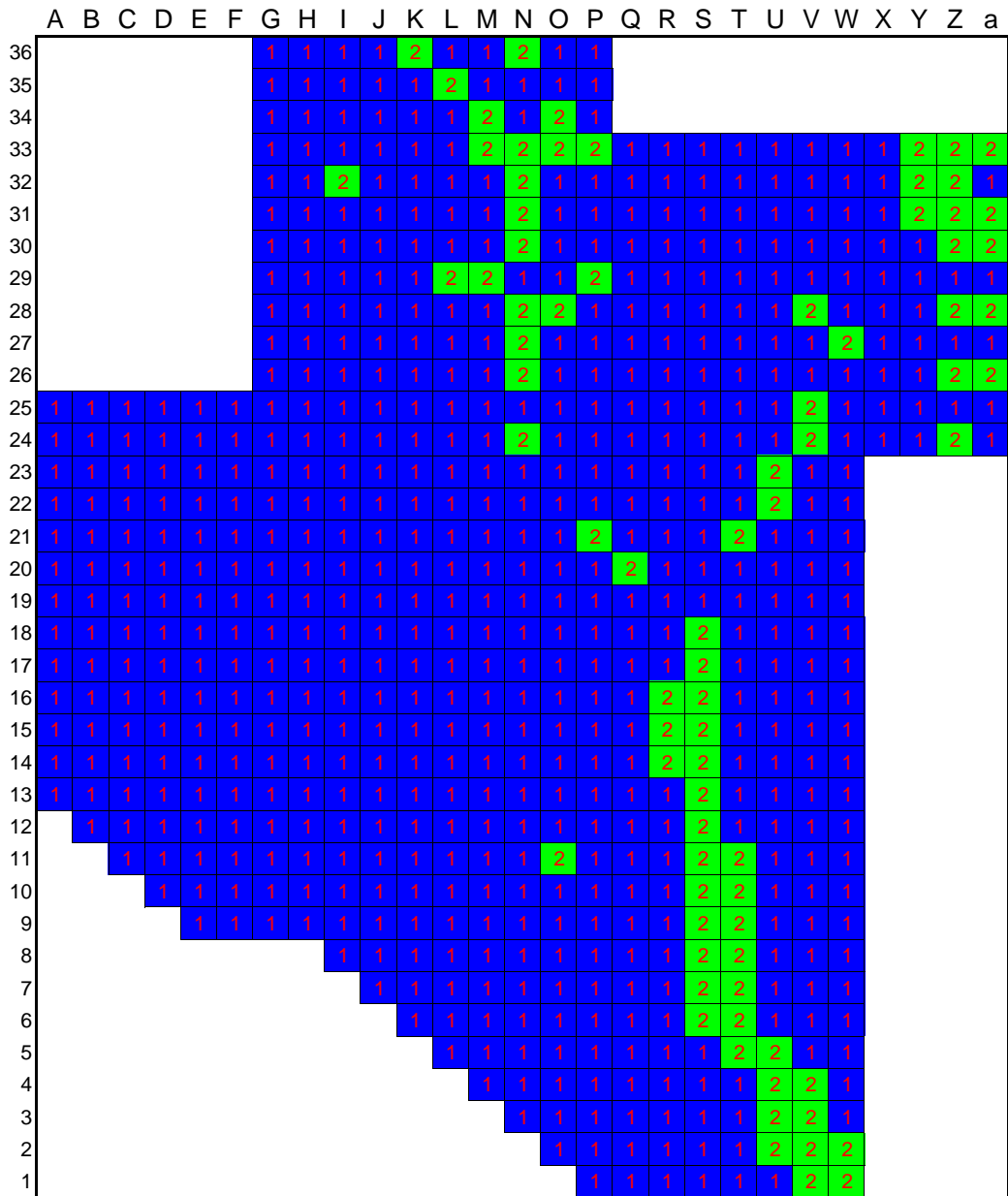
Data 7-10 Ni : Exposure Risk of Heavy Metals in Soil : Case-3 Counter-measures



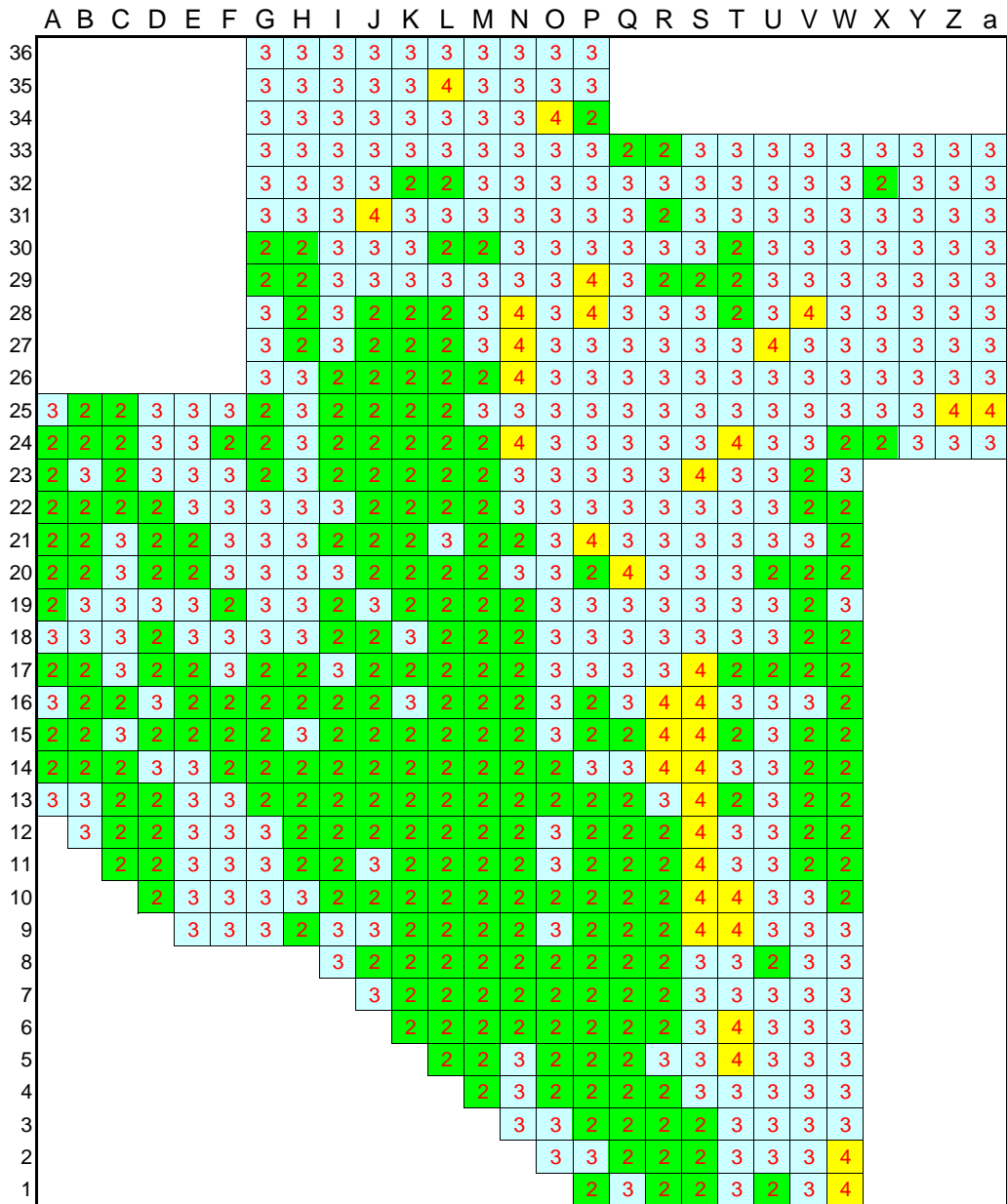
Data 7-10 Pb : Exposure Risk of Heavy Metals in Soil : Case-3 Counter-measures



Data 7-10 Zn : Exposure Risk of Heavy Metals in Soil : Case-3 Counter-measures



Data 7-10 Total : Exposure Risk of Heavy Metals in Soil : Case-3 Counter-measures



Data 8 Minutes of Meeting

Data 8-1 Steering Committee

Data 8-2 Technical Committee

Data 8-3 Working Group on Action Plan

Data 8-4 Working Group on Master Plan

Data 8-1 Steering Committee
for
The Study on Capacity Development for Soil
Contamination Management Related to Mining
in Macedonia

Minutes of Meeting

1.	1st Steering Committee	SC- 1
2.	2nd Steering Committee	SC- 8
3.	3rd Steering Committee	SC- 10
4.	4th Steering Committee	SC- 12
5.	5th Steering Committee	SC- 15
6.	6th Steering Committee	SC- 18
7.	7th Steering Committee	SC- 21

**MINUTES OF MEETING
ON
THE INCEPTION REPORT
FOR
THE STUDY
ON
CAPACITY DEVELOPMENT FOR SOIL CONTAMINATION
MANAGEMENT RELATED TO MINING
IN THE REPUBLIC OF MACEDONIA**

AGREED UPON BETWEEN
MINISTRY OF AGRICULTURE FORESTRY AND WATER ECONOMY (MAFWE)
AND
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

SKOPJE, JANUARY 20, 2006

Mr. Kajima Mikio
Team Leader
JICA Study Team

Mr. Risto Civeiev
Director
State Agricultural Inspection
Ministry of Agriculture Forestry and Water
Economy

In accordance with the Scope of work for “The Study on Capacity Development for Soil Contamination management Related to Mining in the Republic of Macedonia” (hereinafter referred to as “the Study”) agreed upon between the Ministry of Agriculture Forestry and Water Economy (hereinafter referred to as “MAFWE”) and Japan International Cooperation Agency (hereinafter referred to as “JICA”) on July 14, 2005, JICA dispatched the Study Team (hereinafter referred to as “the Team”) headed by Mr. Kajima Mikio and composed of members from Mitsubishi Materials Natural Resources Development Corporation to the Republic of Macedonia. JICA members have also been dispatched on the commencement of the Study.

The Team submitted the Inception Report (hereinafter referred to as “IC/R”), and series of discussions were made at the time of submission. The following are the main points discussed in the meetings. The list of attendants is attached as Annex 1.

1. Acceptance of Inception Report:

The Team explained the contents of IC/R and submitted 20 copies in English. MAFWE has in principle accepted the contents of IC/R. Both sides confirmed the following matters:

- 1) The Macedonian side recognized the importance of cooperative work through on-the-job training and has decided the personnel of counter part members.
- 2) Both sides agreed the work contents of the Pilot Project (hereinafter referred to as “P/P”) and that a map of soil contamination condition based on the field survey in the P/P site will be drawn by cooperative work. However, the judgment, concerning the farm land being suitable for agriculture or not, is entrusted to the Macedonian side. The Macedonian side understood that the proposed sampling locations and the way of narrowing down the grid of sampling, and acknowledged that to experience the process of narrowing down the grid is a part of capacity development. Both sides agreed that the number of samples will be finalized after the general survey, considering capacity of the analytical laboratory and the periods allowed for chemical analysis.
- 3) The Macedonian side acknowledged that even if the farmland was considered to be appropriate for agriculture by the results of P/P, the continuous risk-monitoring by the Macedonian side will be necessary for farm lands.
- 4) Both sides agreed that it was necessary to obtain understanding and cooperation to the Study from the local communities on conducting the on-site survey of P/P. In this regard, the Macedonian side must play an important role of giving full explanation and consideration to the local communities.
- 5) The Macedonian side acknowledged that the full involvement of the members of the Steering Committee, mentioned in article 3 below, were indispensable for successful execution of the recommendations made in the Master Plan (hereinafter referred to as “M/P”).

2. Member of the Macedonian Counterpart Team:

The Macedonian side informed that the following members, listed in Annex II, from MAFWE were appointed as the counterpart personnel to the Team, and the Team acknowledged the appointment.

3. Members of Steering Committee and Technical Committee:

The Macedonian side informed that the following members, listed in Annex III (1) and (2), were assigned to as the Steering Committee and the Technical Committee to the Team, and the Team acknowledged the appointment.

4. Next Meeting of Steering Committee and Technical Committee:

Both sides agreed that the next meeting of the Steering Committee and the Technical Committee will be held at Skopje around February 14, 2006, in order to decide the contents of P/P.

5. Undertaking of the Macedonian Side:

The Team acknowledged the undertakings provided by MAFWE in accordance with the agreement on July 14, 2005 between both sides. The Team confirmed the undertakings of Macedonian side for preparing office spaces in Skopje and Probistip with necessary equipment.

6. Seminar:

Both sides agreed to hold the First Seminar (Seminar 1) on P/P at Skopje around May 10, 2006, prior to commencement of P/P.

7. Counterpart Training Program in Japan for MAFWE:

Both sides agreed to discuss the Counterpart Training in due course in order to conduct it in a timely and effective manner.

8. Group Training Program in Japan:

Synchronizing with the Study, JICA will hold a group-type of training program, "Environmental Protection and Management of Mining Areas in the Balkan Countries", in Japan for three successive years beginning from March, 2006. In this connection, both sides recognized the importance of close coordination between the Study and the Group Training Program in order to maximize the effects.

The Group Training Program is mainly targeted on central or local officials in charge of supervising mine development and its environmental management. Two Macedonian candidates for the program in each year would be nominated in the Steering Committee.

ANNEX I : LIST OF ATTENDANTS

MACEDONIAN SIDE

(Ministry of Agriculture Forestry and Water Economy: MAFWE)

- | | |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Mr. Sande Dzambazovski | Deputy Minister, MAFWE |
| 2. Mr. Risto Civciv | Director of State Agriculture Inspection,
MAFWE |
| 3. Mr. Abdilfagar Sinani | Head of Sector, Sector for Agriculture |
| 4. Mr. Zivko Brajkovski | Manager of Sector, Sector of International
Cooperation and Euro Integration, MAFWE |
| 5. Mr. Aleksandar Sapundziovski | Head of Department
Water Economy Administration, MAFWE |
| 6. Mr. Petar Kamcev | Secretariat for European Affairs, Head of Sector
for Integration in the field of Trading, Industry,
Science and Research |
| 7. Ms. Orhideja Kaljosevska | Advisor for Bilateral Cooperation, Secretariat
for European Affairs |
| 8. Mr. Blagoj Indov | Manager, PE Hydro-System Zletovica |
| 9. Mr. Pene Penev | State Counsellor, Ministry for Local Self-
Government |
| 10. Mr. Saso Apostolov | Head of Division, MEPP, Division for Multilateral
Cooperation |
| 11. Mr. Dusan Nikolovski | Independent Advisor of the Mayor, Local
Government Probistip |
| 12. Mr. Boris Krstev | Professor, Faculty of Mining and Geology,
University "St.Cyril and Methodius"- Skopje |
| 13. Mr. Estref Imeri | Deputy of Department, Ministry of Economy,
Department for Energy and Mineral Resources |
| 14. Ms. Tatjana Mitkova | Professor, Faculty of Agriculture, University
"St.Cyril and Methodius"- Skopje |

JAPANESE SIDE

(STUDY TEAM)

- | | |
|--------------------------|---------------------------------------|
| 1. Mr. Kajima Mikio | Team Leader/ Soil contamination |
| 2. Mr. Okazaki Masatsugu | Soil and Natural Environmental Survey |
| 3. Mr. Takahide Kawamura | Risk Assessment/Coordinator |

(Japan International Cooperation Agency, Headquarters)

- | | |
|-----------------------|-------------------------------------------------|
| 1. Mr. Suzuki Tadashi | Staff of Japan International Cooperation Agency |
|-----------------------|-------------------------------------------------|

ANNEX II : LIST OF MACEDONIAN COUNTERPART

(Ministry of Agriculture Forestry and Water Economy: MAFWE)

Mr. Risto	Civciev	Director	State Agricultural Inspectorate
Mr. Aleksandar	Sapundzievski	Head of department	Water economy Administration
Mr. Zivko	Brajkovski	Head of sector	International cooperation
Mr. Pance	Nikolov	Head of department	Organic production
Mr. Mihail	Lukarev	Head of Unit	State Agricultural Inspectorate
Mr. Donco	Markovski	Head of department	Regional Unit Probistip
Mr. Naumco	Lazarevski	Counselor	Water economy Administration

ANNEX III (1) : LIST OF THE STEERING COMMITTEE

1. Ministry of Agriculture Forestry and Water Economy
2. Ministry of Environment and Physical Planning
3. Ministry of Economy
4. Ministry of Health
5. Ministry of Local Self-Government
6. Secretariat for European Affairs
7. Public Enterprise Hydro-System “Zletovica”
8. Faculty of Agricultural Sciences and Food Production
9. Faculty of Mining and geology
10. Municipality of Probistip

ANNEX III (2) : LIST OF THE TECHNICAL COMMITTEE

1. Faculty for Veterinary Medicine
2. Public Health Protection Institute
3. Agricultural Institute
4. Faculty of Forestry
5. Hydro-meteorological Institute
6. Ministry of Environment and Physical Planning - Environmental Service
7. Faculty of agricultural sciences and food production
8. Faculty of mining and geology

(February 15, 2006)

MINUTES
OF
SECOND STEERING COMMITTEE

Re: Survey Method of the Pilot Project and Risk communication

**PROJECT: The Study on Capacity Development for Soil
Contamination Management Related to Mining
in the Republic of Macedonia**

-
1. Date and Time : February 15, 2006, 10:00-11:30
 2. Place : Office of Mr. Risto Civciev
 3. Member of Committee :
 - 1) Ministry of Agriculture Forestry and Water Economy: Mr. Aleksandar Sapundziovski
 - 2) Ministry of Environment and Physical Planning: absent
 - 3) Ministry of Economy: absent
 - 4) Ministry of Health: absent
 - 5) Ministry of Local Self-Government: absent
 - 6) Secretariat for European Affairs: absent
 - 7) Public Enterprise Hydro-System "Zletovica": Mr. Bpagoi Indov
 - 8) Faculty of Agricultural Sciences and Food Production: Ms. Tatjana Mitkova
 - 9) Faculty of Mining and geology: Dr. Boris Krstev
 - 10) Municipality of Probishtip: Mr. Dusan Nikolovski

JICA Study Team

- 1) Mr. Kajima Mikio Team Leader/ Soil contamination
- 2) Mr. Okazaki Masatsugu Soil and Natural Environmental Survey
- 3) Mr. Michael Wenborn Organization, Legislation and Social Impact

JICA

- 1) Mr. Ladislav Lesnikovski JICA Skopje Branch

4. Agenda :
 - Survey method of the Pilot Project
 - a. Method of Soil Contamination survey
 - b. Chemical Analysis Method
 - c. Selection of Parameters
 - d. Provisional Environmental Standards for Soil
 - e. Risk Communication
5. Materials :
 - Proposed Method of Soil Contamination survey
 - Proposed Chemical analysis method
 - Results of Chemical Analysis in the Preliminary Survey
 - Environmental Standards for Soil and Water
 - Risk Communication

Notes of Steering Committee - 2

Based on the results of Technical Meetings held on February 1 and 8, five topics concerning survey methods of the Pilot Project, as given above, were discussed.

a) Method of Soil Contamination Survey

The method had been previously discussed and agreed by the Technical Committee and was agreed by the Steering Committee.

b) Chemical Analysis Method

The method had been previously discussed and agreed by the Technical Committee and was agreed by the Steering Committee.

c) Selection of Parameters

The Study Team presented the first analytical results from the project, which included data of 22 parameters at 34 sampling points. Based on these results of the Preliminary Survey, and comparison of the concentrations in samples from the tailings and samples from the background, the study team proposed the selection of ten parameters (Cd, Pb, Zn Total-Cr, Hg, Cu, Co, Ni, As and Mn) for the Pilot Project. The Steering Committee agreed with the proposal.

d) Provisional Environmental Standards for Soil

It was agreed by the Steering Committee that the discussion on the environmental standards to be proposed should take place in future based on further investigation of the Pilot Project area.

e) Risk Communication

The concept and method for risk communication had been previously discussed and agreed by the Technical Committee and was agreed by the Steering Committee.

f) Other Points of Discussion

The Study Team provided a reminder of the overall aims of the project to build capacity and develop a Master Plan. The Master Plan will include roles and responsibilities for policy development on soil contamination management and roles for implementation of the Master Plan itself. The Study Team explained that the Ministry that will take on this role will depend on the existing organizational structures, existing capacity and senior commitment at the Ministry. The Study Team has started to assess these factors at the relevant Ministries.

The Steering Committee members enquired about the arrangements for the allocation of the budget for the Pilot Project. This was explained to members by the JICA representative. The participants agreed to hold the next Steering Committee in middle of May 2006, prior to commencement of Pilot Project.

(May 18, 2006)

MINUTES
OF
3rd STEERING COMMITTEE

Re: Phase 2: Pilot Project

1. Date and Time : May 18, 2006, 10:00-12:00
2. Place : Conference Room, MAFWE
3. Participants:
 - 1) Ministry of Agriculture Forestry and Water Economy: Mr. Risto Civeiev
 - 2) Ministry of Agriculture Forestry and Water Economy: Mr. Aleksandar Sapundziovski
 - 3) Ministry of Environment and Physical Planning: Mr. Saso Apostolov
 - 4) Secretariat for European Affairs: Mr. Petar Kamcev
 - 5) Secretariat for European Affairs: Ms. Biljana Jadrovska
 - 6) Public Enterprise Hydro-System "Zletovica": Mr. Bpagoi Indov
 - 7) Municipality of Probishtip: Mr. Dusan Nikolovski

JICA Study Team

- | | |
|--------------------------|---------------------------------------------|
| 1) Mr. Kajima Mikio | Team Leader/ Soil contamination |
| 2) Mr. Okazaki Masatsugu | Pilot Project Survey Leader |
| 3) Mr. Takeshi Higo | Chemical Analysis |
| 4) Mr. Takahide Kawamura | Project Coordinator |
| 5) Mr. Michael Wenborn | Organization, Legislation and Social Impact |

JICA in Skopje

- | | |
|-----------------------------|--------------------|
| 1) Mr. Ladislav Lesnikovski | JICA Skopje Branch |
|-----------------------------|--------------------|

4. Agenda
 - 1) Detailed Plan of Pilot Project in Phase 2
 - 2) Capacity Development Plan in Phase 2
 - 3) 1st Seminar
 5. Materials
 - 1) Plan of Pilot Project
 - 2) Report on Phase 1 Survey
 - 3) Capacity Development in Phase 2
-

Notes of Steering Committee - 3

1) Detailed Plan of Pilot Project in Phase 2

- The Pilot Project Survey Leader of the JICA Study Team presented the Report on the Phase 1 of the Study, including the collection of information and data, site investigation in the pilot project area (soil contamination, topography, geology, hydrology, land use and vegetation, social and economic situation, water use, water quality, irrigation, etc), soil contamination survey and chemical analysis of the tailings, organizational structures and legislation.
- The Pilot Project Survey Leader of the JICA Study Team also presented the Report on the Plan for the Pilot Project in Phase 2. This included the concepts of soil sampling (grid survey and narrow-down method), other sampling (sediments, ground water, crops), chemical analysis and compilation of the results.
- The Steering Committee discussed the pilot project plan and method in Phase 2 and agreed with the Plan.

2) Capacity Development Plan in Phase 2

- The Team Leader for the JICA Study reminded the Steering Committee that a major component of the Study relates to Capacity Development.
- The Team Leader presented the capacity development that has been carried out in Phase 1, and the proposed methods for capacity development in Phase 2.
- The Steering Committee discussed the plans for capacity development in Phase 2 and clarification was provided on a few minor points by the Study Team during the discussion.
- The Steering Committee agreed the plans for capacity development in Phase 2.

3) 1st Seminar

- The arrangements for the first seminar, to be held on 31 May 2006 were discussed. The Steering Committee agreed that the seminar should be held in Probistip. The provisional agenda was also discussed.

(September 26, 2006)

MINUTES
OF
4th STEERING COMMITTEE

**Re: Survey Results of P/P and Provisional Environmental Standard
for Soil of the Pilot Project and Macedonia**

1. Date and Time : September 26, 2006, 13:00-14:00
2. Place : Club of the Members of Parliament
3. Participants:
 - 1) Ministry of Agriculture Forestry and Water Economy: Mr. Mihail Lukarev,
Head of Unit, State Agricultural Inspection
 - 2) Ministry of Agriculture Forestry and Water Economy: Ms. Vesna Kusakatova,
Inspector, State Agricultural Inspection
 - 3) Ministry of Environment and Physical Planning: Mr. Saso Apostolov
 - 4) Institute of Public Health Protection, Skopje (Ministry of Health):
Mr. Michael Kochubovski
 - 5) Ministry of Agriculture Forestry and Water Economy: Mr. Donco Makovski :
Manager, MAFWE Regional Office
 - 6) Ministry of Local Government: Mr. Pene Penev
 - 7) Public Enterprise Hydro-System "Zletovica": Mr. Aco Janevski
 - 8) Public Enterprise Hydro-System "Zletovica": Mr. Mile Ilievski, Electrical
Engineer
 - 9) Municipality of Probistip: Mr. Dusan Nikolovski

JICA Study Team

- 1) Mr. Kajima Mikio : Team Leader/ Soil contamination
 - 2) Mr. Takeshi Higo : Chemical Analysis
 - 3) Mr. Takahide Kawamura : Project Co-rdinator
 - 4) Mr. Michael Wenborn : Organization, Legislation and Social Impact
4. Agenda:
 - 1) Survey results of the pilot project
 - 2) Provisional environmental standard for soil of Macedonia
 5. Materials: Survey results of the pilot project
On the Provisional environmental standard for soil of Macedonia
-

Notes of Steering Committee - 4

1) Survey results of the pilot project

The JICA Study Team (Pilot Project Survey Leader) had presented the results of the 400m grid soil sampling in the pilot project during the previous workshop. This included the following:

- A reminder of the scope of work in the pilot project and an update on the pilot project progress.
- Results of the 400m grid soil sampling for the 10 heavy metals: Cr, Mn, Co, Ni, Cu, Zn, As, Cd, Pb, including illustration of the soil contamination through presentation on maps of the Probistip area.
- Comparison of concentrations of heavy metals through presentation of a table of correlation coefficient values, and the confirmation that Zn, Pb and Mn represent mining activities and Ni concentrations are a result of background geologic nature. Concentrations of Cd, Cr and Co are not significantly high.
- The method for the selection of the 200m grid sampling areas was described in detail by the JICA Study Team Leader. The sampling and analysis for the 200m grids is ongoing at this time.

The Team Leader reminded the Steering Committee that the results of the pilot project are preliminary at this stage, and that these sensitive data should not be released to the public until further work in the pilot project has been carried out and the Technical Committee and Steering Committee have further discussed the results.

The Team Leader also reminded the Steering Committee that an Action Plan will be developed in early 2007 in relation to the potential soil contamination in Probistip.

2) Provisional environmental standard for soil of Macedonia

The JICA Study Team (Team Leader) had presented the background paper related to provisional environmental standards for soil in Macedonia during the previous Workshop. He emphasized that the setting of provisional environmental standards will be a major component of the Master Plan.

Preliminary standards had been proposed by the JICA Study Team before the pilot project and, based on the results of the pilot project and on standards adopted in other countries, the aim is for the Technical Committee to hold a series of meetings to discuss and propose provisional standards in the Master Plan. These standards would then be adopted through the legal framework in Macedonia, but could be changed at appropriate times if necessary.

The JICA Study Team (Team Leader) had presented the procedure for setting the provisional environmental standard for soil, and had proposed that provisional standards should be adopted for the following heavy metals: As, Cd, Co, Cr, Pb, Cu, Hg, Ni and Zn.

The JICA Study Team (Team Leader) had proposed the following principles for the development of provisional standards:

- A **risk-based approach** should be used related to land use, risk of exposure to humans and risk of impact on health (this type of approach has been used in other countries that have developed soil standards).
- **Use existing information and data** to inform the development of soil standards (e.g. standards in other countries where information is available, EU REACH Database, etc).

- Ensure that the method is **clear and practical** for the development and use of soil standards.
- Setting provisional soil standards in Macedonia is just the starting point and it will be necessary to amend them in future by expert council in charge of this matter. Start by setting soil standards at **levels that are realistic and achievable** in Macedonia at this time (and so that counter-measures are affordable).

Notes on the Discussion of the Steering Committee

There was no objection from the Steering Committee in relation to the proposed methods on the 200m grid survey and methods for development of the provisional standards for soil. However, there was some discussion on the above topics and several points were proposed by the Steering Committee, including the following:

- The Steering Committee confirmed their agreement to the narrow-down method being used in the pilot project to identify the boundary between contaminated and uncontaminated land.
- The JICA Study Team Leader reminded the Members that Mn concentration in soil provides an indication of mining tailings, and that Mn will continue to be monitored during the pilot project, but the current proposals are for Mn to be excluded from the provisional standards for Macedonia. The Steering Committee suggested that there should be further discussion by the Technical Committee on whether an environmental standard should be developed for Mn.
- The Steering Committee also recommended that the preliminary soil standard for Cd needs further discussion by the Technical Committee.
- The Steering Committee suggested that a wider consultation group should have the opportunity to review and comment on the recommended provisional standards.
- The Steering Committee recommended that the Study Team request for further funding to JICA for additional ground water and surface water monitoring in the pilot project.
- The Steering Committee also suggested that similar monitoring programmes on soil contamination are needed elsewhere in Macedonia.
- The Steering Committee suggested that the Study Team further discuss the existing plans of Probistip Municipality in relation to future local spatial planning. The aim is to coordinate the future spatial planning for the mining activity with the planning of the agricultural production.

(July 4, 2007)

MINUTES
OF
5th STEERING COMMITTEE

Re: Survey Results of Additional Survey and Master Plan
for Soil Contamination Management of Macedonia

1. Date and Time : July 4, 2007, 13:00-15:00
2. Place : Conference Room, MAFWE
3. Participants:
 - 1) Ms. Vesna Kusakatova Junior associate, State Agricultural Inspection, MAFWE
 - 2) Mrs. Ana Karanfilovska Maznevska Ministry of Environment and Physical Planning
 - 3) Mr. Michail Kochubovski Public Health Protection Institute , Ministry of Health
 - 4) Mr. Donco Markov MAFWE Regional Office Probistip
 - 5) Mr. Pene Penev Ministry of Local Government
 - 6) Mr. Aco Janevski Public Enterprise Hydro-System "Zletovica"
 - 7) Mr. Miroslav Nusevski Public Enterprise Hydro-System "Zletovica"
 - 8) Mr. Dusan Nikolovski Municipality of Probistip

JICA Study Team

- 1) Mr. Kajima Mikio Team Leader/ Soil contamination
 - 2) Mr. Okazaki Masatsugu Soil Contamination Investigation
4. Agenda:
 - 1) Survey results of Additional Survey of the pilot project
 - 2) Master Plan for Soil Contamination Management of Macedonia
 5. Materials:
 - 1) Survey results of Additional Survey of the pilot project
 - 2) Master Plan for Soil Contamination Management of Macedonia
-

Notes of Steering Committee - 5

Ms. Vesna, the representative of MAFWE opened the meeting.

Mr. Kajima started to present the abstract of the Master Plan.

In the abstract of the Master Plan Mr. Kajima explained the present contamination in the Pilot project area and the contamination mechanism that exists in the area. The mechanism consist of two paths: the tailing material still remaining in some part of the area, and the wind that is diffusing the tailing particles from the open tailing dam and contaminating the southwestern parts of the area.

Mr. Okazaki reminded about the 84 wheat chemical analyses results, and the contamination with Lead (according to Macedonian Standards) in 37 wheat samples. Co-related with the elution analysis and the maximum allowed concentration of 0.2 mg/kg Pb in the wheat, for the elution concentration of lead in the soil more than 0.004 mg/L in the soil, there is high probability of having concentrations more than 0.2 mg/kg in the wheat. Thus the soils with leached lead of more than 0.004 mg/L have high agricultural risk.

Mr. Kajima additionally reminded about the exposure risk, calculated from the total content of lead in the soil. Together with the agricultural risk, the combined risk figure showed that less than 20% of the area in the pilot project has low agricultural or exposure risk. Therefore the recommendation from the Team leader was not to cultivate wheat in the area. Perhaps other crops can be cultivated in the area, but MAFWE should make additional survey to confirm this assumption.

Mr. Kochubovski added that high values of leaching test for the Lead can result in high risk for lead contamination in other crops as well, not only wheat. Mr. Kajima replied that MAFWE should extend the survey on the other crops.

Mr. Penev said in the Ministry of Local Self Government they have a mineralogical map that shows natural concentration. Also, these findings in Probistip lead to conclusion that the possibility of safe cultivation of other crops must be explored. However, as Ms. Vesna pointed out, the Study has limited budget and cannot undertake additional surveys.

Mr. Kajima rose the issue of formulating a counter measures against the source of contamination, and the 1st thing to do is to cover the old tailing dam with fresh uncontaminated soil or by gravel.

Mr. Janevski from the HSZ greeted everybody at the meeting. He objected the formulation of the findings such as “contaminated soil” or “general high agricultural risk”. The findings that show spread of contamination in south-west areas affects the future of HSZ, as they cannot procure loan for construction of the irrigation system. He also requested as a representative of the Hydrosystem Zletovica the Study Team to discriminate the contaminated and non-contaminated areas.

Mr. Kajima replied the findings show high probability of lead concentration in wheat in the area.

Mr. Kochubovski agreed that the lead presence in the wheat cannot be ignored. Also, he reminded that similar project under CARDS 2006 is ongoing, to identify the hotspots in Macedonia and maybe to do some remediation.

Mr. Kajima replied the Study is already holding working groups for Action Plan and Master Plan.

Mr. Donco asked for waiting the results of lead analyses in crops and soil.

Mr. Kajima reminded that in the previous analyses, 37 wheat samples had lead more than MAC. According to Japanese experience, the results should be respected if the findings show that some site is contaminated.

Mr. Okazaki presented the water survey results from the additional survey in the Pilot project area. Generally, the lead exceeded the environmental standard of 0.01 mg/l and this will be problem from 2010, when the limit of drinking water will be 0.01 mg/l. Arsenic exceeded the MAC of 0.01 mg/l in many case.

Mr. Kajima recommended the waters in Probistip area not to be used for drinking.

Mr. Kochubovski said that the results cannot be accepted officially, since Public Health Protection Institute is the official authority to do drinking water analyses and to ban water usage. However, PHPI will make program of work with Probistip officials to conduct water analyses in the area.

Regarding the request from Kochubovski to JICA Study Team to support water analyses in PHPI, Mr. Kajima replied that they can't help for this issue.

Mr. Penev asked the Probistip officials to raise the issue of contamination in the area, so that they can receive support in dealing with the contamination, like economic shift from wheat production to other, support for remediation etc.

Mr. Kajima asked the representative of MoEPP to attend the workgroup meetings.

Mr. Kajima closed the meeting and asked everybody to join at the next Steering Committee meeting at 27 July 2007.

(July 27, 2007)

MINUTES
OF
6th STEERING COMMITTEE

Re: Master Plan of Capacity Development for Soil Contamination
Management in Macedonia

1. Date and Time : July 27, 2007, 9:00 ~ 12:00
2. Place : Conference Room in MAFWE, Skopje
3. Participants:
 - 1) Mr. Blagoja Stefanovski : Head of Unit, State Agricultural Inspectorate, MAFWE
 - 2) Ms. Vesna Kusakatova : Inspector, State Agricultural Inspection, MAFWE
 - 3) Mr. Donco Makovski : Manager, MAFWE Regional Office
 - 4) Mr. Dusko Jovanovski : Mayor of Probistip
 - 5) Mr. Nikolovski Dusan : Councillor, Municipality of Probistip
 - 6) Ms. Margareta Cvetkovska : Advisor (Soil) Information Centre, MEPP
 - 7) Mr. Miroslav Nishovski : Public Enterprise Hydro-System "Zletovica"
 - 8) Mr. Aco Janevski : Public Enterprise Hydro-System "Zletovica"
 - 9) Professor Dr. Boris Krstev : Faculty of Mining and Geology (Stip)
 - 10) Mr. Ladislav Lesnikovski : JICA
 - 11) Ms. Nahomi Nishio : JICA
 - 12) Dr. Yoshida Mitsuo : JICA Tokyo

JICA Study Team

- 1) Mr. Mikio Kajima : Team Leader
 - 2) Mr. Masatsugu Okazaki : Soil Contamination Investigation
 - 3) Mr. Hirshiro Hyodo : GIS
 - 4) Mr. Michael Wenborn : Organisation, Legislation and Social Impact
4. Agenda:
 - 1) Results of Additional Crop and Water Analysis of the Pilot Project
 - 2) Master Plan of Capacity Development on Soil Contamination
Management in Macedonia
 5. Materials:
 - 1) Results of Additional Crop and Water analysis of the Pilot Project
 - 2) Master Plan of Capacity Development on Soil Contamination
Management in Macedonia
-

Notes of Steering Committee - 6

1) Results of Additional Crop and Water Analysis of the Pilot Project

The JICA Study Team (Pilot Project Leader) presented the results of the Additional Work on sampling and analysis of groundwater and surface water. This included the following:

- An overview of the scope of these additional tasks carried out in the pilot project area in Probistip municipality, including the sampling points. 95 groundwater samples and 31 surface water samples were collected in total.
- Detailed presentation of the results of analysis of groundwater and surface water.
- Presentation of the main findings that levels of Pb in surface water and groundwater are generally higher than the reference value for the water quality standard in Macedonia and the standard for drinking water.

The JICA Study Team (Pilot Project Leader) also presented the results of the Special Additional Work on sampling and analysis of wheat crops. This included the following:

- An overview of the scope of these additional tasks carried out in the pilot project area on wheat crops, including the sampling points. 32 wheat samples were taken in 2007.
- Detailed presentation of the results of analysis of crop samples, including comparison of results of wheat sample analysis in 2006 and 2007. There was annual variation of the Pb concentration in wheat, which was lower in general in 2007 than 2006.
- Presentation of the main finding that levels of Pb in 30 of 84 crop samples in 2006 were higher than the reference values, although the concentration generally was lower in 2007. There is no clear correlation between Pb levels in wheat and soil samples.
- It is necessary to carry out longer-term monitoring of Pb concentrations, because difference by year.

In some areas cultivation of wheat is not appropriate as long as the environmental situation continues. The Steering Committee expressed concern that it is difficult to define the areas for which cultivation should be restricted, but acknowledged that further monitoring is needed.

The JICA Study Team Leader presented potential mechanisms for the soil, groundwater and crop contamination in the area as well as the countermeasures for remediation of old tailings dam.

The Mayor of Probistip agreed with the countermeasures proposed for the old tailings dam, subject to available funding, but requested that monitoring work continued in more detail so that areas that are unsuitable for cultivation can be properly identified.

2) Master Plan of Capacity Development on Soil Contamination Management in Macedonia

The JICA Study Team (Team Leader) presented on the Master Plan for Soil Contamination Management in Macedonia. The presentation included:

- Concepts of the Master Plan
- Capacity Development (CD) Concepts
- Legal Framework
- CD at Institution / Society Level
- CD at Organisational Level
- CD at Individual (Technical) Level

The key points to the presentation on the Master Plan for Soil Contamination Management in Macedonia are:

- MEPP should take leadership on soil contamination management (including implementation of MP).
- Communication and close co-operation between Ministries is important.
- Law on Soil Contamination Management is needed.
- Ongoing Capacity Development at all levels is essential.
- Step-by-step improvement in soil contamination management.
- Senior commitment is essential for successful implementation of the Master Plan.

The Steering Committee Chairman requested for the JICA Study to have a project extension in order to take forward the implementation of the Master Plan and extend the pilot project.

The Steering Committee Chairman pointed out that a new Law on Agricultural Land is being developed.

There was no objection to the Master Plan from the Steering Committee.

MINUTES OF MEETING
ON
DRAFT FINAL REPORT
FOR
THE STUDY
ON
CAPACITY DEVELOPMENT
FOR
SOIL CONTAMINATION MANAGEMENT
IN
THE REPUBLIC OF MACEDONIA

AGREED UPON BETWEEN
MINISTRY OF AGRICULTURE, FORESTRY AND WATER ECONOMY,
MINISTRY OF ENVIRONMENT AND PHYSICAL PLANNING,
MINISTRY OF ECONOMY
AND
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

Skopje, January 10, 2008

Mr. Mikio Kajima
Team Leader,
JICA Study Team

Mr. Pero Dimsoski
Vice Minister,
Ministry of Agriculture, Forestry and Water
Economy,
Republic of Macedonia

Mr. Mile Jakimovski
Director,
Environmental Administration
Ministry of Environment and Physical
Planning,
Republic of Macedonia

Mr. Kostadin Jovanov
Head of Sector for Mineral Resources,
Ministry of Economy,
Republic of Macedonia

JICA Study Team submitted 20 copies of the Draft Final Report of the Study on Capacity Development for Soil Contamination Management in the Republic of Macedonia” (hereinafter referred to as “the Study”) to Ministry of Agriculture, Forestry and Water Economy in the Government of the Republic of Macedonia.

Presentations and discussions on the Draft Final Report were made between the parties on 13th November 2007, at the meeting with the Minister of Agriculture, Forestry and Water Economy and the meeting of the Steering Committee (Annex 1 shows the list of participants), held in Skopje.

After discussions, the Draft Final Report was accepted in principle, and the following specific points were noted.

1. Comments on the Draft Final Report

MAFWE, MEPP and MoE fully support the Master Plan on Soil Contamination Management in Macedonia and will encourage the Government of Macedonia to adopt the Master Plan at an appropriate time.

MAFWE, as the lead counterpart for the Study, has stated that they will not publish the results of the Pilot Project until additional monitoring has been carried out of potential soil, ground water and crop contamination in the Probistip area. MAFWE will co-operate with other relevant Ministries to apply for funding for further monitoring to be included in the Government budget for 2008.

MAFWE, MEPP and MoE support the Action Plan on Counter-measures in the Pilot Project Area and will encourage the Government of Macedonia and Municipality of Probistip to adopt the Action Plan at an appropriate time, subject to the results of the additional monitoring of the potential soil, ground water and crop contamination in the Probistip area, and also subject to the funding mechanisms for the implementation of the counter-measures in the Action Plan.

MAFWE has agreed to include the funding in the draft 2008 budget for planning and implementation of actions for initial crop management counter-measures in Probistip Municipality. The details of the counter-measures of crop management, such as the locations of changes in land use, the types of crops, the uses of crops and the potential subsidisation mechanisms, will be planned in detail and determined by MAFWE in co-operation with other Ministries and relevant stakeholders.

2. Deadline for the Comments on the Draft Final Report

The Steering Committee Members agreed that they would provide comments on the Draft Final

Report to the JICA Study Team by 31st December 2007, and the JICA Study Team agreed to take the comments into account in the completion of the Final Report.

3. Publication of the Final Report

The JICA representatives explained the importance of disclosing the Final Report to the public (as in the Agreement of the Scope of Works, signed on July 13, 2005). MAFWE will make the Final Report of the Study accessible to the public, at an appropriate time, to ensure its maximum usage, depending on the results of the additional monitoring of the potential soil, ground water and crop contamination in the Probistip area.

In line with the requirements of the Japanese Government, the Final Report of the Study should be disclosed to the Japanese public. However, the Minister of Agriculture, Forestry and Water Economy requested that the results of the pilot project are not disclosed until further monitoring has been carried out and appropriate counter-measures have been agreed, and it is hoped that this will be in 2010. The Government of Macedonia will contact JICA when it is acceptable for the results of the Pilot Project to be published. The Study Team stated that they would convey this message to JICA.

4. Gratitude to the Cooperation

The Macedonia Counterparts and Steering Committee Members expressed their gratitude to JICA and its Study Team and stated that the JICA Study would highly contribute towards improved and sustainable soil contamination management in Macedonia.

The JICA Study Team replied that they were also very grateful for the cooperation of the Macedonian stakeholders and counterpart members in particular.

It is hoped that there will be ongoing co-operation between an inter-sector team of the Government of Macedonia and JICA on soil contamination management solutions.

[Attachment: Annex I - List of Participants at the Steering Committee Meeting (13 November 2007)].

Annex I: List of Participants at the Steering Committee Meeting

13th of November, 2007

1. Macedonia Steering Committee Members

Mr. Mihail Lukarev	Head of Section, State Agricultural Inspection Ministry of Agriculture Forestry and Water Economy
Ms. Gabriella Mickovska	Minister's Advisor for International Projects, Ministry of Agriculture Forestry and Water Economy
Mr. Blagoja Stevanoski	Head of Sector of Agriculture, Ministry of Agriculture Forestry and Water Economy
Mr. Aleksandar Sapundziovski	Head of Department of Water Economy, Ministry of Agriculture Forestry and Water Economy:
Ms. Vesna Kusakatova	Inspector, State Agricultural Inspection, Ministry of Agriculture Forestry and Water Economy
Ms. Ana Karanfilova Maznevskaa	Head of Sector of Environment, Ministry of Environment and Physical Planning
Mr. Jeton Kuchi	Head of Department of Mineral Resources, Ministry of Economy
Dr. Michael Kochubovski	Institute of Public Health Protection, Ministry of Health
Mr. Miroslav Nusevski	Public Enterprise Hydro-System "Zletovica"
Mr. Aco Janevski	Public Enterprise Hydro-System "Zletovica"
Dr. Tatyana Mitkova	Professor, Faculty of Agriculture, University "St.Cyril and Methodius"- Skopje
Mr. Aleksandar Nikolovski	Secretariat for European Affairs

2. JICA Representatives / Study Team

JICA Study Team

Mr. Mikio Kajima	Team Leader
Mr. Masatsugu Okazaki	Soil and Natural Environment Survey
Mr. Michael Wenborn	Organisation, Legislation and Social Impact

Advisory Committee of Japan International Cooperation Agency

Dr. Mitsuo Yoshida	Senior Advisor, Institute for International Cooperation, JICA
Dr. Junta Yanai	Associate Professor, Graduate School of Agriculture, Kyoto Prefectural University

Japan International Cooperation Agency

Mr. Tadashi Suzuki	Programme Officer, JICA Headquarter
Mr. Satoshi Murakami	Assistant Resident Representative, JICA Balkan Office
Ms. Naomi Nishio	Adviser for ODA
Mr. Ladislav Lesnikovski	Technical Coordinator

Data 8-2 Technical Committee
for
The Study on Capacity Development for Soil
Contamination Management Related to Mining
in Macedonia

Minutes of Meeting

1.	1st Technical Committee	TC- 1
2.	2nd Technical Committee	TC- 4
3.	3rd Technical Committee	TC- 7
4.	4th Technical Committee	TC- 11
5.	5th Technical Committee	TC- 15
6.	6th Technical Committee	TC- 17

(February 1, 2006)

MINUTES
OF
FIRST TECHNICAL MEETING

Re: Environmental Standards for Soil and Soil Sampling Method

**PROJECT: The Study on Capacity Development for Soil
Contamination management Related to Mining
in the Republic of Macedonia**

-
1. Title of Meeting : First Technical Meeting of the Study
 2. Date and Time : February 1, 2006, 10:00~13:00
 3. Place : Conference Room in MAFWE
 4. Member of Meeting :
 - 1) Experts, Ministry of Agriculture Forestry and Water Economy: Mr. Risto Civev
 - 2) Experts, Ministry of Environment and Physical Planning: absent
 - 3) Experts, Ministry of Economy, Mining Inspector: absent
 - 4) Experts, Ministry of Health: absent
 - 5) Experts, Faculty of Mining and Geology: Dr. Boris Kristev
 - 6) Faculty of Agriculture, Dep. of science and Food, Dr. Tatjana Mitkova
 - 7) Dr. Blazo Boev, Technical Advisor

(STUDY TEAM)

- 1) Mr. Kajima Mikio : Team Leader/ Soil contamination
 - 2) Mr. Okazaki Masatsugu : Soil and Natural Environmental Survey
5. Agenda :
- 1) Definition and function of technical meeting of the Study
 - 2) Relationship between Technical Committee and this meeting
 - 3) Provisional environmental standards for soil for the Pilot Project
 - 4) Soil sampling method for the Pilot Project
6. Materials :
- Examples of environmental standards for soil
 - European Soil sampling guidelines for soil pollution
 - Others

Remarks: Second Technical Meeting :

- Risk communication
- Method of chemical analyses (Content and elution analyses)
- Soil contamination survey method

Notes of Technical Committee - 1

1) Definition and function of technical meeting of the Study

The study team explained the definition and function of technical meeting.

- The meeting is held for discussing technical matters of project whenever it is necessary.
- The results of discussion will be forwarded to the Steering Committee so that the Steering Committee meeting would proceed efficiently.

The definition and function of technical meeting of the Study given above are agreed by the technical meeting.

2) Relationship between Technical Committee and this meeting

The study team explained the relationship between Technical Committee and this meeting.

-At this moment, this meeting is called as Technical Meeting and after authorization by the Steering Committee it will become Technical Committee.

The relationship between Technical Committee and this meeting given above was agreed by the technical meeting.

3) Provisional environmental standards for soil for the Pilot Project

The concept of the provisional environmental standards for soil for the Pilot Project was proposed by the study team based on the present situation of Macedonia and Pilot Project area, examples of investigation of soil in EU countries and chemical composition of groundwater and crops. The study team suggested that it is not an appropriate time to determine the environmental standard and the determination should be made after further investigation and discussion.

The technical meeting agreed that provisional environmental standard for soil for the Pilot Project will be determined after further investigation and discussion.

4) Soil sampling method for the Pilot Project

The sampling method of soil of the Pilot Project was proposed by the study team.

- Grid sampling is conducted by the narrow down method starting from 400m grid.
- Within an area of one grid, sampling is conducted by five points mixing method and sampling depth is 50cm.

After discussion, the technical meeting agreed the sampling method mention by the study team.

5) Other Points of Discussion

The participants agreed to hold the next technical meeting concerning topics given below on February 8.

- Risk communication
- Method of chemical analyses (Content and elution analyses)
- Soil contamination survey method

(February 8, 2006)

MINUTES
OF
SECOND TECHNICAL MEETING

Re: Risk communication, Method of Chemical Analyses,
and Soil Contamination Survey Method

**PROJECT: The Study on Capacity Development for Soil Contamination
Management Related to Mining in the Republic of Macedonia**

1. Title of Meeting : Second Technical Meeting of the Study
2. Date and Time : February 8, 2006, 10:00~13:00
3. Place : Conference Room in MAFWE
4. Member of Meeting :
 - 1) Experts, Ministry of Agriculture Forestry and Water Economy:
Mr. Aleksandar Sapundziovski
 - 2) Experts, Ministry of Environment and Physical Planning: absent
 - 3) Experts, Ministry of Economy, Mining Inspector: absent
 - 4) Experts, Ministry of Health: absent
 - 5) Hydro-System Zletoviza: Mr. Blagoj Indov
 - 6) Probistip Municipality: Mr. Dusan Nikolovski
 - 7) Experts, Faculty of Mining and Geology: Dr. Boris Krstev
 - 8) Faculty of Agricultural sciences and Food, Dr. Tatjana Mitkova
 - 9) Dr. Blazo Boev, Technical Advisor
- (STUDY TEAM)
 - 1) Mr. Kajima Mikio Team Leader/ Soil contamination
 - 2) Mr. Okazaki Masatsugu Soil and Natural Environmental Survey
 - 3) Mr. Michael Wenborn Organization, Legislation and Social Impact
5. Agenda :
 - 5) Risk communication
 - 6) Method of chemical analyses (Content and elution analyses)
 - 7) Soil contamination survey method
 - 8) Second Steering Committee
6. Materials :
 - Example on the Risk Assessment
 - Content and elution analyses
 - Concept of soil contamination survey

* Remarks: Second Steering Committee (S/C):

- Survey method of the Pilot Project (Soil sampling method, Sampling number, Chemical analysis method, Selection of parameters, Provisional standards for soil, etc.)
- Risk communication

Notes of Technical Committee - 2

1) Risk communication

The study team explained the objectives, definition, necessity and concept of Risk Communication using examples.

- Risk Communication is very important all through the project.
- The Pilot Project should be conducted with full understanding of the local residents and land owners.

The technical meeting agreed with the importance of risk communication explained by the study team. Both sides agreed with organizing the coordination unit, which will play a key role for risk communication all through the project. The coordination unit consists of Steering Committee, Ministry of Agriculture, Forestry and Water Economy, Hydro-system Zletovica, Municipality, Land Owner and JICA Study Team.

2) Method of chemical analyses (Content and elution analyses)

The study team explained the method of chemical analyses for soil samples.

- Content analysis is conducted for soil samples and elution analysis is conducted for 10% of total soil samples.
- Considering the schedule of the project and large amount of samples, ICAP is the most suitable analytical equipment for chemical analyses of samples.

After discussion, the technical meeting agreed with methods of chemical analyses presented by the study team.

3) Soil contamination survey method

The soil contamination survey method mainly concerning sampling method of soil and its schedules were proposed by the study team. Although sampling method of soil sampling was briefly explained at the first technical meeting, more detail explanation was given for sampling methods of soil sample.

- Grid sampling is conducted by the narrow down method starting from 400m grid. Based on the results of 400m grid sampling, for the areas of higher contents of heavy metals above the

certain values, more detail grid samplings (200m, 100m and 50m grid) are conducted.

- Within an area of one grid, sampling is conducted by five points mixing method and sampling depth is 50cm.
- The sampling will be conducted at three separate stages, in order of Stage 1 (at 400m-grid), Stage 2 (at 200m-grid) and Stage 3 (at 50m-grid)
- The locations of 10% samples for elution analyses are decided systematically on the grid, so that they are equally distributed in the area.

After discussion, the technical meeting agreed with soil contamination survey method presented by the study team.

4) Second Steering Committee

The participants agreed that the Third Steering Committee (S/C) would be held concerning following agendas.

- Survey method of the Pilot Project (Soil sampling method, Sampling number, Chemical analysis method, Selection of parameters, Provisional standards for soil, etc.)
- Risk communication

(September 15, 2006)

MINUTES
OF
THIRD TECHNICAL COMMITTEE MEETING

Re: Survey Results of P/P and Provisional Environmental
Standard for Soil in Macedonia

**PROJECT: The Study on Capacity Development for Soil Contamination
Management Related to Mining in the Republic of
Macedonia**

-
1. Date and Time : September 15, 2006, 10:00-13:00
 2. Place : Conference Room in MAFWE
 3. Participants at Meeting:
 - 1) Ministry of Agriculture Forestry and Water Economy: Mr. Aleksandar Sapundziovski
 - 2) Ministry of Agriculture Forestry and Water Economy: Ms. Vesna Kusakatova
 - 3) Ministry of Environment and Physical Planning: Mr. Saso Apostolov
 - 4) Institute of Public Health Protection, Skopje: Mr. Michael Kochubovski
 - 5) Faculty of Forestry: Mr. Goran Zlateski
 - 6) Faculty of Mining and Geology: Professor Dr. Boris Krstev
 - 7) Public Enterprise Hydro-System "Zletovica": Mr. Miroslav Nishovski
 - 8) Faculty of Agricultural Sciences and Food Production: Professor Dr. Tatjana Mitkova
 - 9) Hydro-Meteorological Institute: Ms. Marija Andreevska
 - 10) Hydro-Meteorological Institute: Mr. Mirko Cvetkovski
 - 11) Faculty for Veterinary Medicine: Professor Dr. Metodija Dodovski
 - 12) Institute for Agriculture: Mr. Marjan Andreevski

(STUDY TEAM)

- 1) Mr. Kajima Mikio : Team Leader/ Soil contamination
- 2) Mr. Okazaki Masatsugu : Pilot Project Survey Leader
- 3) Mr. Takeshi Higo : Chemical Analysis
- 4) Mr. Takahide Kawamura : Project Co-ordinator
- 5) Mr. Michael Wenborn : Organization, Legislation and Social Impact

(JICA)

- 1) Mr. Ladislav Lesnikovski : JICA Skopje Branch
4. Agenda
 - 1) Survey results of the pilot project
 - 2) Provisional environmental standard for soil in Macedonia

5. Materials
- Background paper on: Results of 400m grid soil sampling
 - Background paper on: Provisional environmental quality standard for soil and risk assessment (dated 15 September 2006)
-

Notes of Technical Committee - 3

Attendance from the Technical Committee Members at this 3rd meeting was high, and there was good participation and discussion during the meeting. The Team Leader provided a reminder of the objectives and components of the study.

1) Survey results of the pilot project

The JICA Study Team (Pilot Project Survey Leader) presented the results of the 400m grid soil sampling in the pilot project. This included the following:

- A reminder of the scope of work in the pilot project and an update on the pilot project progress.
- Results of the 400m grid soil sampling for the 10 heavy metals: Cr, Mn, Co, Ni, Cu, Zn, As, Cd, Pb, including illustration of the concentration of heavy metals in soil through presentation on maps of the Probistip area.
- Comparison of concentrations of heavy metals through presentation of a table of correlation coefficient values, and the confirmation that Zn, Pb and Mn represent mining activities and Ni concentrations are a result of background geologic nature. Concentrations of Cd, Cr and Co are not significantly high.
- The method for the selection of the 200m grid sampling areas was described in detail by the JICA Study Team. The sampling and analysis for the 200m grids is ongoing at this time.

There were several questions for clarification on the results of the 400m grid sampling and some discussion on the background paper that was presented by the JICA Study Team. There was no objection from the Technical Committee on the selection of areas for the 200m grid sampling.

2) Provisional environmental standard for soil in Macedonia

The JICA Study Team (Team Leader) presented the background paper related to provisional environmental standards for soil in Macedonia. The setting of provisional environmental standards will be a major component of the Master Plan.

The idea of the preliminary standards had been introduced by the JICA Study Team before the pilot project and, based on the results of the pilot project and on standards adopted in other countries, the aim is for the Technical Committee to discuss and propose provisional standards in the Master Plan. These standards would then be adopted through the legal framework in Macedonia, but could be changed at appropriate times if necessary.

The JICA Study Team (Team Leader) presented the procedure for setting the provisional environmental standard for soil, and proposed that provisional standards should be adopted for the following heavy metals: As, Cd, Co, Cr, Pb, Cu, Hg, Ni and Zn.

In addition, the Team Leader reminded the Technical Committee that the Study will involve development of content standards. However, because many people in Macedonia use ground water, elution standards will be important, and should be considered in future.

The JICA Study Team (Team Leader) proposed the following principles for the development of provisional standards:

- A **risk-based approach** should be used related to land use, risk of exposure to humans and risk of impact on health (this type of approach has been used in other countries that have developed soil standards).
- **Use existing information and data** to inform the development of soil standards (e.g. standards in other countries where information is available, EU REACH Database, etc).
- Ensure that the method is **clear and practical** for the development and use of soil standards. In many other countries the methods seem to be over-complicated and confusing.
- Setting provisional soil standards in Macedonia is just the starting point and it will be necessary to amend them in future by expert council in charge of this matter. Start by setting soil standards at **levels that are realistic and achievable** in Macedonia at this time (and so that counter-measures are affordable). Then the soil standards can be tightened as environmental and soil contamination management improves in Macedonia in future.

The Technical Committee agreed with the proposed procedure and principles, and gave the following specific comments:

- The wording of the “standards” should be simple and clear, and the Technical Committee agreed that they should be called “**Standards for maximum allowed concentration of heavy metals in soil.**”
- The natural / background concentrations should be taken into account when setting standards, as far as possible.

The Technical Committee members were asked to provide any additional comments in writing, particularly focusing on the following:

- *Please provide comments on these principles of the method of derivation of soil standards..*
- *Can you suggest any other principles?*
- *What are the most important principles?*

- *What working approach should be used to develop and agree soil standards? (The aim is to agree a set of provisional soil standards by February 2007).*
- *We are suggesting a series of Technical Committee Meetings to present, discuss and agree proposals for soil standards. Do you have comments on this approach?*

- *Any other comments?*

Next Meeting of the Technical Committee

It is proposed that the next meeting of the Technical Committee will include discussion on the type of risk-based approach for setting standards, for example discussion on different types of land use for setting standards.

The Technical Committee members will be notified of the date of the next meeting in the near future.

(October 06, 2006)

MINUTES
OF
4th TECHNICAL COMMITTEE MEETING

Re: Further Discussion and Development of the Provisional Standards
for Soil of the Pilot Project and Macedonia

**PROJECT: The Study on Capacity Development for Soil Contamination
Management Related to Mining in the Republic of
Macedonia**

1. Date and Time : October 06, 2006, 10:00~13:00
2. Place : Meeting Room in MAFWE
3. Participants at Meeting:
 - 1) Ministry of Agriculture Forestry and Water Economy: Ms. Vesna Kusakatova
 - 2) Ministry of Environment and Physical Planning: Ms. Ana Karanfilova-Maznevska
 - 3) Ministry of Environment and Physical Planning: Ms. Margareta Cvetkovska
 - 4) Faculty of Agricultural Sciences and Food Production: Professor Dr. Tatjana Mitkova
 - 5) Faculty of Mining and Geology: Professor Dr. Boris Krstev
 - 6) Faculty of Mining and Geology: Professor Dr. Blazo Boev
 - 7) Hydro-Meteorological Institute: Mr Mirko Cvetkovski
 - 8) Faculty for Veterinary Medicine: Professor Dr. Metodija Dodovski
 - 9) Institute for Agriculture: Mr. Marjan Andreevski
 - 10) Institute for Agriculture: Mr. Dime Petkovski

(STUDY TEAM)

- | | |
|--------------------------|---------------------------------------------|
| 1) Mr. Kajima Mikio | Team Leader/ Soil contamination |
| 2) Mr. Takeshi Higo | Chemical Analysis |
| 3) Mr. Takahide Kawamura | Project Coordinator |
| 4) Mr. Michael Wenborn | Organization, Legislation and Social Impact |

5. Agenda:

- 1) Background points on the Provisional Standards for Soil of Macedonia
 - Reminder of the aims and principles for development of the Provisional Standards
 - Terminology for the Standards
 - Heavy Metals to include in the provisional standards

- 2) Overview of the steps in development of standards
- 3) Discussion on main calculation method / equation
- 4) Chemical Analysis
- 5) Date of next meeting and main topics to be discussed

6. Materials:

- Background material for development of the Provisional Standard for Soil of Macedonia

Notes of Technical Committee - 4

1) Background points on the Provisional Standards for Soil of Macedonia

The JICA Study Team Leader provided a reminder of the aims and principles for development of the Provisional Standards.

The terminology for the Standards was discussed. The Technical Committee noted that the standards will not necessarily all be “maximum allowed concentration.” For example, some standards might be levels that designate that further detailed investigation is needed (e.g. sometimes called trigger levels in other countries), and the more general type of wording “Provisional Soil Standards” was proposed, and within this the Technical Committee might later propose different types of Soil Standard (eg Trigger Value, Action Value, etc). It was then suggested that the Provisional Standards should initially relate to the Pilot Project area and therefore the Technical Committee agreed the wording: “**Provisional Soil Standards for the Pilot Project area**” (abbreviation - PSSPP).

The heavy metals to be included in the Provisional Soil Standards for the Pilot Project area were discussed by the Technical Committee. The JICA Study Team Leader explained that Mn occurs in much of the Pilot Project area, where there is much mining activity, and Mn often precipitates as an oxide in the soil. In addition, for the above reasons Soil Standards for Mn do not exist in other countries. The Technical Committee therefore agreed that Mn should not be included in the Provisional Soil Standards for the Pilot Project area, but that Mn could be added to the standards at a later date. The Technical Committee agreed that the 9 heavy metals to be included in the provisional standards are: As, Cd, Co, Cr, Pb, Cu, Hg, Ni, Zn. These correspond to the 10 heavy metals that are being monitored in the Pilot Project except for Mn.

2) Overview of the steps in development of standards

The JICA Study Team presented the suggested steps in development of provisional standards. In

addition, an overview of the types of standards in other countries was presented, including the different categories of land use to which the different types of standards are applied in other countries. This provides background for discussions at future Technical Committee meetings.

3) Discussion on main calculation method / equation

The JICA Team Leader presented the details of the risk assessment derivation method for soil standards in Japan. This covered an overview of the derivation of the content value for soil standards, including calculation methods of intake routes of harmful substances by soil ingestion and skin contact, an example of a dose-response curve and example calculation of a standard value. In addition, the derivation method for the elution standard was explained.

This presentation also provides background for discussions at future Technical Committee meetings.

4) Chemical Analysis

The JICA Study Expert in Chemical Analysis presented suggestions for approaches for future development of standardised methods of sampling and analysis of soil contamination. It was suggested that relevant regulations on soil protection would need to be developed first under the framework of the relevant Laws related to Environment and Agriculture, but that also a Working Group on Standardisation of Soil Sampling and Analysis could be set up with the aim of developing standardised methods. The Technical Committee agreed with these suggestions, and it was proposed that the Working Group includes representatives from the major relevant laboratories in Macedonia plus representatives from MAFWE and MEPP.

The JICA Study Team Leader presented a reminder of the soil sampling method used in the Pilot Project, and the Newsletter No.3 was provided to the Technical Committee as further background material. Specifically, the points discussed included the fact that plastic bags were used to protect the soil moisture before reaching the laboratory, the soil was classified by a colour chart after sampling, and rust-free materials were used for extracting in the soil samples.

5) Date of next meeting and main topics to be discussed

The proposed future dates of the next Technical Committee Meetings to discuss Provisional Soil Standards are:

- Tuesday 17 October
- Wednesday 15 November

These dates will be confirmed nearer the time. Further meetings will be held in November and December if needed.

The next (5th) meeting will involve more discussion and less background presentation material. The discussion will focus on the possible derivation methods for PSSPP, and the advantages and disadvantages of each method. By identifying and comparing possible methods, the most applicable method for Pilot Project can then be selected by the Technical Committee. The provisional agenda items for the 5th meeting of the Technical Committee are:

- 1) Reminder of the material, discussion and agreed points from the 4th meeting.
- 2) Identification of potential derivation methods
- 3) Discussion of the advantages and disadvantages of each derivation method
- 4) Identification of Members of a Working Group on Standardisation of Soil Sampling and Analysis Methods in Macedonia

(October 17, 2006)

MINUTES
OF
Fifth TECHNICAL COMMITTEE

Re: Development of the Provisional Standards for Soil
for the Pilot Project and Macedonia

**PROJECT: The Study on Capacity Development for Soil Contamination
Management Related to Mining in the Republic of Macedonia**

1. Title of Meeting : Fifth Technical Committee (Meeting) of the Study
2. Date and Time : October 17, 2006, 10:00~12:00
3. Place : Director's room in MAFWE
4. Participants at meeting :

1) Ministry of Agriculture Forestry and Water Economy	Mr. Blagoja Stefanovski
2) Ministry of Agriculture Forestry and Water Economy	Ms. Vesna Kusakatova
3) Ministry of Environment and Physical Planning	Ms. Ana Karanfilova-Maznevska
4) Institute for Agriculture	Mr. Dime Petkovski
5) Faculty of Mining and Geology	Professor Dr. Boris Krstev
6) Hydro-meteorological Institute	Ms. Marija Andreeva
7) Hydro-meteorological Institute	Mr. Mirko Cvetkovski
8) Faculty of agricultural sciences and food production	Professor Dr. Tatjana Mitkova
9) Hydro-System Zletovica, Counterpart	Mr. Miloslav Nishovski,
10) Hydro-System Zletovica, Counterpart	Mr. Aco Janevski

5. Japan Team (STUDY TEAM)
 - 1) Mr. Kajima Mikio Team Leader/ Soil contamination
 - 3) Mr. Takahide Kawamura Risk assessment

6. Agenda:
 - 1) Development of Provisional Standard for Soil for the Pilot Project in Macedonia
 - 2) Background concentration of heavy metal in Macedonia
 - 3) On the Risk communication in the pilot project

6. Materials:

- Background concentration of heavy metal in Macedonia
- Development of Provisional Standard for Soil of the Pilot Project in Macedonia
- On the Risk communication in the pilot project

Notes of Technical Committee - 5

(1) Background concentration of heavy metal in Macedonia

JICA study team presented the results of 400m grid sampling with concentration map of heavy metal for discussion of background values. The Japanese criteria of natural cause of high heavy metal concentration was introduced, and based on these results of the Pilot Project Survey were discussed.

Based on the geology and topography, results of the Pilot Project survey were discussed by the participants.

(2) Development of Provisional Standard for Soil for the Pilot Project in Macedonia

The JICA study team introduced the Technical Committee various examples of environmental standard used in elsewhere in the world. The Japanese methods of calculation of standard values were introduced to the Technical Committee and actual calculation of standard was conducted by the committee member using various parameters. Many discussions were done concerning the parameters for calculation of the standard. It was mentioned in the discussion that medical point of view must be considered for determination of Pb standard value.

(3) On the Risk Communication in the Pilot Project

The Study team introduced the Technical Committee various examples of risk communication from examples of elsewhere in the world. The discussion was held on the flow of risk communication for Pilot Project area.

(December 11, 2006)

MINUTES
OF
Fifth TECHNICAL COMMITTEE

Re: Geochemical Feature in the Pilot Project Area
and the Provisional Standards for Soil

**PROJECT: The Study on Capacity Development for Soil Contamination
management Related to Mining in the Republic of Macedonia**

1. Title of Meeting : Sixth Technical Committee (Meeting) of the Study
2. Date and Time : December 11, 2006, 12:00~14:00
3. Place : State Agricultural Inspectorate, MRTV building, XIII floor
4. Member attending the Meeting :

Macedonia

- | | |
|---------------------------------------------------------|----------------------------------|
| 1) Ministry of Agriculture Forestry and Water Economy | Mr. Michail Lukarev |
| 2) Ministry of Environment and Physical Planning | Ms. Ana Karanfilovska Maznevskva |
| 3) Faculty for Veterinary Medicine | Professor Dr. Metodija Dodovski |
| 4) Faculty of Mining and Geology | Professor Dr. Boris Krstevski |
| 5) Faculty of Mining and Geology | Professor Dr. Blazo Boev |
| 6) Hydro-meteorological Institute | Ms. Marija Andreeva |
| 7) Hydro-meteorological Institute | Mr. Mirko Cvetkovski |
| 8) Faculty of agricultural sciences and food production | Professor Dr. Tatjana Mitkova |

JICA Study Team

- | | |
|--------------------------|----------------------------------|
| 1) Mr. Mikio Kajima | Team Leader / Soil Contamination |
| 2) Mr. Masatsugu Okazaki | Pilot Project Leader |

5. Agenda:

- 1) Progress of the Pilot Project
- 2) Geochemical Analysis of Soil Survey results of the Pilot Project
- 3) Development of Provisional Standard for Soil and Discussion

6. Materials:

- Geochemical Analysis of Soil Survey results of the Pilot Project
 - Development of the Provisional Standard for Soil for the Pilot Project – 2
-

Notes of Technical Committee - 6

Geochemical Analysis of Soil Survey results of the Pilot Project

Mr. Okazaki presented the statistical report on the results from the Pilot Project's analyses.

Results from crop analysis in the P/P

The Team Leader Mr. Kajima presented to the technical committee meeting the results from the crop analysis in the Pilot Project.

The members of the Technical Committee discussed the results, and they concluded following:

1. The number of crop samples is not representative to make any solid conclusion.
2. The parameters for analyses should be expanded in order to make correlation with the soil analyses.
3. Some crop samples should be re-analysed, if possible. The Team Leader will convey this message to JICA HQ in Tokyo.

Development of Provisional Standards for Soil

The Team Leader reminded the members of the T/C about the derivation methods for Soil Standards. In addition to the 2 previously discussed methods (TDI approach and Water Quality approach), another method including soil background was introduced.

The Team Leader presented to the T/C statistical results for determining the background value of the soil for the P/P area, along with the average soil value by Bowen (1979) and the background values of Netherlands.

After presenting all three methods for derivation of soil standards, the Team Leader gave the suggestions for the provisional standards.

The Technical Committee members did not comment the suggestion at the meeting.

**Data 8-3 Working Group on Action Plan
for
The Study on Capacity Development for Soil
Contamination Management Related to Mining
in Macedonia**

Minutes of Meeting

1.	1st WG-AP	AP- 1
2.	2nd WG-AP	AP- 3
3.	3rd WG-AP	AP- 5
4.	4th WG-AP	AP- 8
5.	5th WG-AP	AP- 12

(June 12, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting, WG of Action Plan for the Pilot Project

1. **Title of Meeting** : Working Group - 1 of Action Plan for P/P
 2. **Date and Time** : 15:00 ~ 15:30 on June 12, 2007
 3. **Place** : Director's Room at Radio TV Bldg.
 4. **Member of Meeting** :
(Counterparts)
 - 1) Ms. Vesna Kusakatova Associate, State Agricultural Inspectorate
 - 2) Mr. Jeton Kuchi Department of Exploration and Exploitation, MoE
 - 3) Dr. Vladimir Kendrovski PHI Republic Institute for Health Protection, MoH
 - 4) Ms. Katerina Jonovska Food Directorate
 - 5) Ms. Katica Tomanovic Atanasovska Food Directorate(Study Team)
 - 1) Mr. Kajima Mikio, Team Leader/ Soil contamination
 - 2) Mr. Kawamura Takahide, Expert for Risk Assessment
 5. **Agenda**
 - 1) Survey Results of P/P (Detailed Survey and Risk Assessment)
 - 2) Countermeasures for Soil Contamination in P/P Area
 6. **Materials**
 - 1) Survey Results of P/P (Detailed Survey and Risk Assessment)
-

Notes of Working Group of Action Plan - 1

The JICA Study Team (Team Leader) had presented the Action Plan of risk mitigation of soil contamination in the Pilot Project area.

This included the following:

- Briefing about the survey items in the Pilot Project area.
- Briefing about agricultural activities and land usage in the Pilot Project area.
- Explanation about the heavy metal contamination mechanism in the area.
- Correlation between the heavy metal concentration in the crops and elution analysis of soil. In this sense, the Team Leader explained the conclusion that there is high risk of Pb presence in the wheat if the result of the elution test of soil is higher than 0.004 mg/L.

The Team Leader briefed the representative of MoE about activities in the Pilot Project.

(June 18, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting, WG of Action Plan for the Pilot Project

1. **Title of Meeting** : Working Group - 2 of Action Plan for P/P
 2. **Date and Time** : 11:00 ~ 12:30 on June 18, 2007
 3. **Place** : Probistip
 4. **Member of Meeting** :
(Counterparts)
 - 1) Mr. Dusko Jovanovski Mayor of Probistip city
 - 2) Ms. Divna Stojanova Environmental Expert, Probistip municipality
 - 3) Ms. Zhivka Mihajlovska Urbanism Expert, Probistip office, MEPP
 - 4) Ms. Vesna Kusakatova Associate, State Agricultural Inspectorate
 - 5) Mr. Donco Markov Probistip office, MAFWE
 - 6) Mr. Miroslav Nusevski Hydro System Zletovica
(Study Team)
 - 1) Mr. Kajima Mikio Team Leader/ Soil contamination
 - 2) Mr. Okazaki Masatsugu Expert for Soil Contamination Investigation
 5. **Agenda**
 - 1) Survey Results of P/P (Detailed Survey and Risk Assessment)
 - 2) Countermeasures for Soil Contamination in P/P Area
 6. **Materials**
 - 1) Survey Results of P/P (Detailed Survey and Risk Assessment)
-

Notes of Working Group of Action Plan - 2

Mr. Okazaki presented the Working Group the scope of all analyses in the P/P area, as well as the scope of the additional survey in the P/P area.

Mr. Kajima presented the Action Plan of risk mitigation of soil contamination in the Pilot Project area. This included the following:

- Briefing about the survey items in the Pilot Project area.
- Briefing about agricultural activities and land usage in the Pilot Project area.
- Explanation about Exposure risk, Agriculture risk and combined risk.
- Correlation between the heavy metal concentration in the crops and elution analysis of soil. In this sense, the Team Leader explained the conclusion that there is high risk of Pb presence in the wheat if the result of the elution test of soil is higher than 0.004 mg/L.

The conclusion from the brief presentation was that the P/P area generally is not recommended for cultivation of wheat.

Mr. Mayor asked about the crop analysis, objecting that the percentage of wheat over the MAC was only 40%. Mr. Kajima replied that there is high risk for wheat contamination if the elution value is more than the safety value of 0.004 mg/L, according to the correlation curve between soil Pb elution and crop content of Pb analyses. Also, there is high influence of Pb oxides in the dust from the open tailing that are spread in south-west direction.

The mayor asked for a possibility of another analyses only in Pb to confirm these conclusions. Since these further investigations are beyond the scope of the Study, Mr. Kajima asked for official request from MAFWE to JICA for further investigations.

Mr. Donco agreed that the water well sampling team will do the wheat and soil sampling during the upcoming wheat harvest.

The JICA Study Team would then ask, along with the MAFWE's request, for additional budget for crop and soil analyses (30 samples of wheat and soil).

The Working group agreed the next meeting to be held after completion of the water analyses.

(July 3, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting, WG of Action Plan for the Pilot Project

1. **Title of Meeting** : Working Group - 3 of Action Plan for P/P
 2. **Date and Time** : 13:30 ~ 14:00 on July 3, 2007
 3. **Place** : MAFWE, Skopje
 4. **Member of Meeting** :
(Counterparts)
 - 1) Ms. Vesna Kusakatova Associate, State Agricultural Inspectorate
 - 2) Mr. Mihail Lukarev Head of Sector, State Agricultural Inspectorate
 - 3) Ms. Margarita Cvetkova Environmental Information Centre, MEPP
 - 4) Ms. Katerina Gerazova Food Directorate, MoH
 - 5) Mr. Jeton Kuchi Department of Exploration and Exploitation, MoE
 - (Study Team)
 - 1) Mr. Kajima Mikio, Team Leader/ Soil contamination
 - 2) Mr. Okazaki Masatsugu, Expert for Soil Contamination Investigation
 5. **Agenda** 1) Additional Survey Results of P/P
 6. **Materials** 1) Additional Survey Results of P/P
-

Notes of Working Group of Action Plan - 3

The Team Leader opened the Working group meeting.

The Team Leader explained the necessity of the additional survey in the Pilot project area, since only the water and groundwater related to major rivers were examined, and the Study had no information about ground waters used for drinking in whole Pilot project area.

Mr. Okazaki presented the results from the additional survey.

From the whole area, 29 villages and several rivers and creeks were subject of the survey. Total 95 water samples from the villages were collected, 2-4 samples per village. Also, 31 samples of surface water were analyzed as well.

The results indicated higher presence of Pb that exceeded the reference value of Pb in almost all samples.

Also, the results from the river sampling showed very high presence of Mn in some samples from the northern part. Mr. Okazaki explained this by former mining activities, and these waters are affected by the precipitation drainage from the old tailings.

Zinc is also present in higher concentration in the river samples.

Regarding the old mining activities in the northern part, although Mr. Okazaki had information that these activities are from the Roman era, he found evidences that the tailings are old several tens years, due to presence of broken wood in the tailing (that wasn't decayed) and also fresh pyrite that wasn't oxidised.

Regarding the reference values, Mr. Kajima pointed out that there is difference between the Macedonian standards and international standards.

While the Cu and Hg standards are too strict for Macedonia, the As reference value is 3 times higher of the WHO and EU standards. This fact affects the evaluation of the results.

Thus, only 1 sample out of 126 is over the Macedonian standard value and 92 samples (73%) are higher than the Drinking Water Standard of Macedonia (0.01mg/L), WHO (0.01mg/L) and EU standard value for Arsenic (0.01 mg/L).

Mr. Lukarev pointed out that these results had better to be given to Ministry of Health , without notifying the local authorities. This issue should be discussed on higher level.

Mr. Kajima kindly asked Mr. Lukarev to organize a meeting on a higher level, and Mr. Lukarev promised to do such arrangement.

Mr. Kajima pointed out that beside the artificial contamination in the area, also the background is of soil has high concentrations of heavy metals. Also, three media are contaminated in the Pilot project area: crops, soil and groundwater.

Furthermore, Mr. Kajima showed that Pilot project survey served as capacity development, since in the Pilot project survey the Study find out the issues and based on this proposed a solution. The pilot project thus was good example of capacity development.

Related to the results, Ms. Vesna pointed out the authority of MAFWE to ban the agricultural production. However, this is closely related to pay compensation to farmers for not using their own land. Mr. Kajima replied that the results will be disclosed to the working group of the Action plan that includes the Mayor of Probistip as a member of this group.

Regarding the possible counter-measures, Mr. Kajima said there are two kinds of counter-measures: urgent counter measure to ban the usage of water for drinking, and mid-term counter-measure to mitigate the soil contamination. Even if the farmers use the water for irrigation, there is Water quality (Class 3) of irrigation of Macedonia concerning the usage of irrigation water.

Mr. Kajima scheduled the next meeting of the work group for the Action plan in Probistip.

(July 9, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting, WG of Action Plan 4 for the Pilot Project

- 1. Title of Meeting** : Working Group - 4 of Action Plan for P/P
2. Date and Time : 11:00 ~ 13:00 on July 9, 2007
3. Place : Probistip

4. Member of Meeting :

(Counterparts)

- | | |
|---------------------------|----------------------------------------------|
| 1) Mr. Dusko Jovanovski | Mayor of Probistip city |
| 2) Ms. Divna Stojanova | Environmental Expert, Probistip municipality |
| 3) Ms. Zhivka Mihajlovska | Urbanism Expert, Probistip office, MEPP |
| 4) Mr. Dusko Jovanovski | Municipality Probistip |
| 5) Mr. Donco Markov | Probistip office, MAFWE |
| 6) Mr. Miroslav Nusevski | Hydro System Zletovica |
| 7) Mr. Aco Janevski | Hydro System Zletovica |

(Study Team)

- | | |
|---------------------|---------------------------------|
| 3) Mr. Kajima Mikio | Team Leader/ Soil contamination |
|---------------------|---------------------------------|

- 5. Agenda** 1) Additional Survey Results of P/P

- 6. Materials** 1) Additional Survey Results of P/P

Notes of Working Group of Action Plan - 4

Mr. Kajima explained the reason for the additional water analyses in the Pilot Project area. Namely, last year the water analyses scope was limited to 12 monitoring boreholes near Zletovica and Kiselica river, and the results showed contamination with Lead and other heavy metals. Therefore JICA allowed the additional water analyses in the area.

Mr. Kajima presented the progress of the additional survey in the Pilot Project area.

In 29 villages of the Pilot project area 95 ground water samples were analyzed, as well as 31 surface water samples. About half of the wells are still used for drinking, according to the last year interview with the villagers. The acidity is normal (pH varies from 6.9 – 7.3) for the villages. However, for the surface water samples the pH variation was higher, from 3.8 to 8.3. The water sample 2 had pH of 5.2, and one creek from the sulfide had pH of 3.8, near village Plesanci.

The sampling procedure was:

- For the rivers, the sample was taken from the middle of the river
- For the wells, the sample was taken from the 50cm depth in the water level in the well, after 5 purges in the water (the first 4 withdrawn waters are discarded).

On site measurements of temperature, pH and electrical conductivity was done, and after the samples were kept in portable refrigerators, each sample was stored in two 0.5l bottles. Ten elements (heavy metals) were subject for the chemical analyses on the samples, the same heavy metals from the Pilot project survey (As, Cd, Co, Cr, Cu, Hg, Ni, Pb, Zn, Mn). The standard ISO methods were used for the chemical analyses.

The water analyses results were evaluated by the environmental standard, according to the rulebook on classification of waters.

Regarding this standard, the waters in Probistip were contaminated with Lead in almost all samples.

Nickel exceeded standard in 3 ground water samples, but the average concentrations of Nickel in all surface waters exceeded the standard, and were on average 10 times higher than the concentrations in the ground waters. However, two sets of standard exists, one set is environmental (rulebook on classifications of waters), and other is water safety standard for drinking water (published in Official Gazette 57/04).

According to the water safety standard, more than 70% of the samples had Arsenic concentrations more than the standard.

Cobalt exceeded the environmental standard in 6 ground water samples and in 8 surface water samples.

The conclusion from the new findings is to prohibit the use of ground waters in Probistip for drinking.

Thus, as Dr. Kochubovski said on the Steering Committee meeting, the Probistip official should verify the drinking water officially through the Public Health Protection Institute. In this occasion

Mr. Kajima promised to provide the information about location of the wells so that Probistip officials can make official analyses.

Related to the question of the Mayor if the contamination of the ground waters is caused by mining or other human activities, Mr. Kajima replied that the groundwater contamination is thought to be possibly caused by mining activity, further analyses should be performed in other seasons, since the additional sampling in June was done in dry season, and higher concentrations of surface water are expected, but groundwater is not expected.

Related to the question from the Mayor about the method used for the analyses, if the Study Team can share the information about the method, Mr. Kajima shared the information, and also replied that the method for water analyses should be selected by the licensed laboratory (PHPI) in order to have official results.

Mr. Mayor asked about the comments from the Steering Committee about the findings for the water and soil. Mr. Dusko added to the discussion that there are 2 approaches to the findings, from the aspect of the water resources of the Municipality and for the aspect of the future planning and construction of the irrigation system. Also, Mr. Dusko asked if PHPI will accept the chemical analyses results, but Mr. Kajima thought PHPI will agree with the results, but they will be re-analysed official drinking analysis.

Mr. Mayor noted that these analyses were commercial, but they are raising the issue.

Mr. Kajima replied that although the Study Team did commercial analyses, the Study will respect the re-analyses from PHPI and the results are expected to be confirmed. Mr. Mayor suggested Arsenic and Lead to be re-examined. Mr. Dusko suggested maybe manganese to be re-examined also.

Mr. Mayor asked information about owners of the wells. Mr. Kajima replied we have GPS coordinates, and Mr. Miso Manev knows the locations.

Mr. Mayor objected to adopt conclusions until re-analyses are done. He also asked Mr. Kajima about the surface waters quality.

Mr. Kajima replied that surface waters have wider variation of quality due to the season from the ground waters. Related to the quality, Mr. Kajima pointed out that PHPI should re-evaluate waters for drinking, and MAFWE should decide if they are suitable for irrigation.

Also, Mr. replied to the Mayor that quantity flow of waters was not measured.

Mr. Aco Janevski from HSZ pointed out that they want to use clean water for irrigation, since lot of farmers are catching water from Zletovska river. He also objected the explanation of Mr. Kajima

that the waters are consequent.

Mr. Kajima explained that the waters are consequently contaminated from the soil. Also, dust containing Pb from tailings dams is contaminating the crops with Pb, and waters are naturally contaminated with As and Pb (including from the background). Therefore the 1st countermeasure is to cover the old tailings.

Mr. Mayor asked about the crop analyses, and Mr. Kajima replied they are undergoing.

Related to the question about the royalties paid from the new owner of Zletovo Mine, the Mayor replied they are total 180.000 € annually, from which 40% are paid to the Municipality.

Mr. Mayor asked about the conclusions, and Mr. Kajima replied that the working group should make position, to understand the contamination and to propose the countermeasures. The Macedonian Government should assist the countermeasures. Also, MAFWE and MEPP should be informed the situation and asked to undertake counter measures to improve the environment.

Also, we hope the new Zletovo Mine owner will take much care to preserve environment.

The Mayor asked discrimination of contaminated and non-contaminated soil, in order to remediate the contaminated and to utilize clean soils. Probistip needs 3.000 hectares of clean land to be irrigated. The income from irrigation for HSZ is predicted 50% from the total income, only 20% of the income will be for the water supply. To add the fact that only Japan (JBIC) can assist in construction of irrigation system, there is strong need for Probistip to identify the clean areas.

Mr. Kajima replied that in the western and south-western parts the Study Team find out they were safe from the aspect of exposure risk. However, the agricultural risk is increased in these areas and we cannot declare these areas are clean. Furthermore Mr. Kajima stressed out that we cannot even say these areas will have low risk in future without any countermeasures. In the present, and also in the future we will have exposure risk. Since the chemical analyses on wheat are under way, we will resolve the dilemma soon. According to the laboratory scientist, the concentrations in the wheat can vary. These analyses are good to understand the present.

Mr. Kajima asked for new meeting of the Action Plan working group after receiving the crop analyses results, in approximately 2 weeks, before holding the Steering Committee meeting at 27 July, and to adopt final conclusions.

(August 6, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting, WG of Action Plan 5 for the Pilot Project

- 1. Title of Meeting** : Working Group - 5 of Action Plan for P/P
2. Date and Time : 10:30 ~ 12:30 on August 6, 2007
3. Place : Municipality Hall, Probistip
4. Member of Meeting :

(Counterparts)

- | | |
|---------------------------|----------------------------------------------|
| 1) Mr. Dusko Jovanovski | Mayor of Probistip city |
| 2) Ms. Divna Stojanova | Environmental Expert, Probistip municipality |
| 3) Ms. Zhivka Mihajlovska | Urbanism Expert, Probistip office, MEPP |
| 4) Ms. Vesna Kusakatova | Associate, State Agricultural Inspectorate |
| 5) Mr. Donco Markov | Probistip office, MAFWE |
| 6) Mr. Miroslav Nusevski | Hydro System Zletovica |
| 7) Mr. Goran Arsov | Zletovo Mine – Indo minerals |

(Study Team)

- 1) Mr. Kajima Mikio, Team Leader/ Soil contamination
- 2) Mr. Okazaki Masatsugu, Expert for Soil Contamination Investigation
- 3) Mr. Michael Wenborn, Expert for Organisation, Legislation and Social Impact

- 5. Agenda** 1) Additional Survey Results of P/P (Crop and Soil)
- 6. Materials** 1) Additional Survey Results of P/P (Crop and Soil)

Notes of Working Group of Action Plan - 5

Mr. Kajima explained the reason for the additional water analyses in the Pilot Project area. Namely, last year the water analyses scope was limited to 12 monitoring boreholes near Zletovica and Kiselica river, and the results showed contamination with Lead and other heavy metals. Therefore JICA allowed the additional water analyses in the area.

Mr. Kajima presented the progress of the additional survey in the Pilot Project area.

In 29 villages of the Pilot project area 95 ground water samples were analyzed, as well as 31

**Data 8-4 Working Group on Master Plan
for
The Study on Capacity Development for Soil
Contamination Management Related to Mining
in Macedonia**

Minutes of Meeting

1.	1st WG-MP	MP- 1
2.	2nd WG-MP	MP- 3
3.	3rd WG-MP	MP- 5
4.	4th WG-MP	MP- 8
5.	5th WG-MP	MP- 11
6.	6th WG-MP	MP- 14

(June 12, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting -1, Working Group for Master Plan

- 1. Title of Meeting** : Start-up Meeting -1 of Working Group for Master Plan
2. Date and Time : 14:00 ~ 15:30 on June 12, 2007
3. Place : Director's Room at Radio TV Bldg.

4. Member of Meeting :

(Counterparts)

- | | |
|--------------------------------------|---------------------------------------------------|
| 1) Ms. Vesna Kusakatova | Associate, State Agricultural Inspectorate |
| 2) Mr. Jeton Kuchi | Department of Exploration and Exploitation, MoE |
| 3) Dr. Vladimir Kendrovski | PHI Republic Institute for Health Protection, MoH |
| 4) Ms. Katerina Jonovska | Food Directorate |
| 5) Mrs. Katica Tomanovic Atanasovska | Food Directorate |

(Study Team)

- 1) Mr. Kajima Mikio, Team Leader/ Soil contamination
- 2) Mr. Kawamura Takahide, Expert for Risk Assessment

- 5. Agenda**
- 1) Objectives of Working Group for M/P
 - 2) Framework of the Soil Contamination Management

- 6. Materials**
- 1) Master plan for Supporting Capacity Development of Soil Contamination Management in Macedonia
 - 2) Meeting Schedule of Working Group for Master Plan

Notes of Working Group of Master Plan - 1

The JICA Study Team (Team Leader) had presented the objectives of the Working Group for M/P. This included the following:

- Objectives of the Master Plan, including capacity development (institutional and social, organizational and individual levels) of the sound management in soil contamination related to mining to improve the environment in Macedonia.
- The scope of the M/P, which is heavy metals, especially related to mining.
- The role of the working group, which is improvement of the proposed Master Plan and after the Study smooth implementation of the Master Plan.

The Team Leader briefed the representative of MoE about Study's up to date activities related to the capacity development.

After the explanation of the institutional framework for Soil contamination management, the Team Leader accepted the notes from the MoH that the MoH is responsible only for disposal of medical waste. Also, it was cleared out that the JICA Study Team will draft the Master Plan, and the working group will assist in providing direction from administrative aspect.

Next meeting of WG-MP will be held on Tuesday of 19th of June.

(June 12, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting -2, Working Group for Master Plan

- 1. Title of Meeting** : 2nd Meeting of Working Group for Master Plan
2. Date and Time : 14:00 ~ 15:30 on June 19, 2007
3. Place : Director's Room at Radio TV Bldg.

4. Member of Meeting :

(Counterparts)

- 6) Ms. Vesna Kusakatova Associate, State Agricultural Inspectorate
7) Ms. Katerina Girazova Food Directorate, Ministry of Health
8) Mr. Jeton Kuchi Ministry of Economy

(Study Team)

- 1) Mr. Kajima Mikio Team Leader/ Soil contamination
2) Mr. Okazaki Masatsugu Expert for Soil and Natural Environment Survey
3) Mr. Kawamura Takahide Expert for Risk Assessment

- 5. Agenda** 1) Institutional Framework of the Soil Contamination Management

- 6. Materials** 1) Master plan for Supporting Capacity Development of Soil
Contamination Management in Macedonia - Part 2

Notes of Working Group of Master Plan - 2

The JICA Study Team (Mr. Kajima, Team Leader) had asked the participants if they have something to add or discuss from previous meetings.

Mr. Kajima explained the update of the Institutional Framework for soil contamination management, considering the remarks from the previous working group meeting, and the leading role of the Ministry of Environment and Physical Planning.

Mr. Kajima explained about new structure of Ministry of Environment and Physical Planning, with improving the capacity related to soil contamination management by introducing a division of waste and soil.

Mr. Kajima explained to the participants the Procedure Flow-chart for the Main discussion of Formulation of the Master Plan.

The main issues discussed at this point included the Data and Information the Workgroup should consider for the formulation of the Master Plan. These included:

- Capacity assessment of administration in Macedonia related to Soil contamination management
- Case studies – especially from Germany and Holland as EU members, their experience and their legislation systems, having in mind also the type of country (both countries have developed industry, while Germany have mining activity)
- Actual situation related to soil contamination in Macedonia

Mr. Kajima pointed out that the Master Plan should focus on Capacity development on different levels:

- Technical level
- Organizational level
- Society level
- Institutional level

Related to the capacity assessment, Mr. Kajima listed all the laws relevant or related to Soil contamination management. Among these more relevant laws are Law on Environment, with authority of the MEPP, Law on Agricultural Land, under authority of MAFWE and Law on Mineral Resources, under authority of Ministry of Economy.

The capacity assessment was viewed also from the aspect of the time the soil contamination occurs: The Law on Mineral resources covers the environmental aspects of the mining companies in the present and future, but is not responsible for the historic soil contamination heritage.

Next meeting of WG-MP will be held on Tuesday of 26th of June.

(June 26, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting, 3rd Working Group for Master Plan

1. **Title of Meeting** : 3rd Meeting of Working Group for Master Plan
 2. **Date and Time** : 14:00 ~ 15:30 on June 26, 2007
 3. **Place** : Director's Room at Radio TV Bldg.
 4. **Member of Meeting** :
(Counterparts)
 - 9) Ms. Vesna Kusakatova Associate, State Agricultural Inspectorate
 - 10) Ms. Katerina Girazova Food Directorate, Ministry of Health
(Study Team)
 - 1) Mr. Kajima Mikio, Team Leader/ Soil contamination
 - 2) Mr. Okazaki Masatsugu, Expert for Soil and Natural Environment Survey
 5. **Agenda** 1) Institutional/Society Framework of the Soil Contamination Management
 6. **Materials** 1) Institutional/Society Framework of the Soil Contamination Management
-

Notes of Working Group of Master Plan - 3

The JICA Study Team (Team Leader) had asked the participants if they have something to add or discuss from previous meetings, the 3 points (Establishment of Basic Law on Soil Contamination Management, Administrative Institution of Soil Contamination Management and Provisional Administrative Institution of Soil Contamination Management until Establishment of the Basic Law of Soil Contamination Management). Then, Mr. Kajima explained the legal authorities of MAFWE – the MAFWE have authority to list all harmful substances related to soil contamination, and their Maximum allowed concentrations.

Then Mr. Kajima stated that MAFWE have the possibility to establish and implement standards for agricultural land. Therefore MAFWE can carry SCM for agricultural land. Also, opinion is needed from the Minister.

Mr. Kajima stated that relevant Main Ministry for soil Contamination Management should be MEPP, while MAFWE and Ministry of Economy should take care about their own authorities (agricultural land and mining sites).

Related to the Objectives of Institution of Soil Contamination Management, Mr. Kajima pointed out 2 objectives:

- Clarification of existing soil contamination in Macedonia
- Prediction of future soil contamination in Macedonia

In the explained example from Japan, any factory that wants to sell the land must perform soil investigations, to clarify the contents of harmful elements in the soil.

The Team Leader then explained part of the diagram the Flow on SCM survey method, in which the administration should make existing data analysis (questionnaire survey of industry and checking if they have risk to contaminate the soil) and first to estimate if there is a probability in future for soil contamination to occur. If there is high risk of soil contamination the administration should carry on general survey (groundwater and surface soil surveys)

Related to the content of SCM, Mr. Kajima stated the need for establishing the list of harmful substances and to set the environmental standards. Thus, the Technical Council from the MEPP should make specification about standards related to soil contamination, and MAFWE should make specification for standards for agricultural lands. Then, the monitoring method, survey method and countermeasure method should be specified also.

Related to the main procedure for formulation of the Master Plan, Mr. Kajima pointed out the Capacity Development on institutional level, specifically about the responsibilities for past and present soil contamination.

Related to the Soil contamination management in MAFWE, Mr. Okazaki pointed out that it is

important to know if MAFWE is making efforts in this direction. Ms. Vesna replied that there is short time to establish some structure.

Mr. Kajima proposed to discuss about improvement of organisation of SAI while waiting for the opinion from the Director. Ms. Vesna promised to consult the experts that worked on the Law on Agricultural Land. Mr. Kajima proposed that in order to implement the specified article from this law related to soil contamination, there is a need for regulation or a sub-law.

Related to the survey method, Mr. Kajima explained the experience from the Pilot project; the survey does not need to be too detailed, and the grid size subject to survey should depend from the land-use. Also, every company that is performing soil quality surveys should be registered for this activity and it should have licensed engineers permanently employed in order to have registration. Another point is that the method of chemical analyses should be described in the survey methods.

There is also a question how legally can be utilized the royalties paid by the mining company in Probistip for counter measures, according to the polluters pay principle.

Mr. Kajima pointed out the need of public awareness. Ms. Vesna replied that mayors should act, and seminars and workshops are insufficient due to lack of presence of relevant authorities. Also, TV campaign can make things worse. However, since the construction of the irrigation system in Probistip area depends from the soil contamination, this issue will be reactivated at that time, and Macedonian Government will pay more attention. Ms. Vesna concluded that the Government should be informed.

Mr. Kajima concluded the meeting and asked everybody to join next Tuesday, 3rd of July.

(July 3, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes, 4th Meeting of Working Group for Master Plan

1. Title of Meeting : 4th Meeting of Working Group for Master Plan
2. Date and Time : 14:00 ~ 15:30 on July 3, 2007
3. Place : Meeting Room at Radio TV Bldg.
4. Member of Meeting :
(Counterparts)
 - 11) Ms. Vesna Kuskatova Associate, State Agricultural Inspectorate
 - 12) Mr. Mihail Lukarev Head of Sector, State Agricultural Inspectorate
 - 13) Ms. Katerina Gerazova Food Directorate, MoH
 - 14) Mr. Jeton Kuchi Department of Exploration and Exploitation, MoE

(Study Team)

- 1) Mr. Kajima Mikio, Team Leader/ Soil contamination
- 2) Mr. Okazaki Masatsugu, Expert for Soil and Natural Environment Survey

5. Agenda

- 1) On the Results of Additional Survey in the P/P
- 2) Organization Framework of the Soil Contamination Management for M/P

6. Materials

- 1) On the Results of Additional Survey in the P/P
 - 2) Organization Framework of the Soil Contamination Management for M/P
-

Minutes of Working Group of Master Plan -4

The Team Leader opened the Working group meeting.

Mr. Kajima explained about the Master Plan. He stressed out the need for new law for Soil Contamination Management.

The main role should be given to MEPP, while MoE and MAFWE should take care about in their own areas. Regarding the role of the municipalities, the municipalities should take care about the implementation of the Soil Contamination Management, while the management and the budget for the soil investigations should be provided from the main 3 ministries.

The MEPP should also organise a Technical Council that will take care of Soil Contamination Management and relate with the MAFWE and MoE.

Mr. Kajima explained the first step of the survey procedure for Soil Contamination Management: Interview and Preliminary Survey of Business Places by Using Checklist. This will provide information for potential soil contamination at industrial plants, without taking soil or water sample.

The procedure for defining soil contamination is also important. Therefore, Mr. Kajima suggested Macedonia needs to set up reference value for soil. Any concentration of heavy metals over the limit set up in the reference values should be considered as soil contamination. In this sense, also a reference value for trigger action (like immediate intervention for remediation) should be considered.

The MEPP should check also unreported environmental abusers and consider this action for potential impact on soil contamination. Mr. Kajima suggested a checklist to be used to estimate soil contamination in industrial or similar areas.

Mr. Kajima proposed the MEPP is in charge for making policy and guidelines together with MAFWE and MoE.

Regarding the method of the soil contamination investigation, it is important to define the methods and the grid size related to the land use. For example, as Mr. Okazaki pointed out, even if it is costly to make narrow grid size of maximum 30m for urban areas, since otherwise there is probability not to make sampling at contaminated spot that has high risk to human health.

Mr. Kajima stated the need of establishing the method for monitoring the soil contamination between the companies and the municipality. Related to the soil contamination site, there is a need to monitor the soil contamination by checking the groundwater quality at the upper and down streams of the contamination site. Also, regarding the vertical location of the contaminated soil, the contamination can be classified into two cases, existing in the saturated or non-saturated layer of the soil. Contaminations in the upper non-saturated soil needs to check soil contamination at the time of migrating works and also to check contamination to the groundwater. In case that the

contaminated soil exists in the saturated layer, the soil contamination can be checked by installing monitoring boreholes for groundwater.

Then after reporting to the relevant Ministry, by ministerial order countermeasures should be undertaken.

Next meeting of WG-MP will be held on Tuesday of 10th of July.

(July 3, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting, 5th Working Group for Master Plan

1. **Title of Meeting** : 5th Meeting of Working Group for Master Plan
 2. **Date and Time** : 14:00 ~ 16:00 on July 10, 2007
 3. **Place** : Meeting Room at Radio TV Bldg.
 4. **Member of Meeting :**
(Counterparts)
 - 1) Mr. Blagoja Stefanovski : Head of Unit, State Agricultural Inspectorate
 - 2) Ms. Vesna Kusakatova : Associate, State Agricultural Inspectorate
 - 3) Mr. Sokol Klincarov : MEPP
 - 4) Ms. Jeton Kuchi : Department of Exploration and Exploitation, MoE
 - 5) Dr. Katerina Gerazova : Food Directorate, MoH
 - (Study Team)
 - 4) Mr. Kajima Mikio : Team Leader/ Soil contamination
 - 5) Mr. Okazaki Masatsugu : Expert for Soil and Natural Environment Survey
 5. **Agenda**
 - 1) Review: Institutional/Society and Organization Level of Soil Contamination Management for M/P
 - 2) Technical Level (Survey method, etc.) of Soil Contamination Management for M/P
 6. **Materials**
 - 1) Review: Institutional/Society and Organization Level of Soil Contamination Management for M/P
 - 2) Technical Level of Soil Contamination Management for M/P
-

Minutes of Working Group of Master Plan -5

The JICA Study Team (Mr. Kajima, Team Leader) presented the results from the working group for Action plan session held one day before. The additional survey in the Probistip area showed that the ground waters are contaminated with As, Pb and on some places with Ni. The surface waters are having the same condition, plus they are contaminated with Ni. Also, Probistip officials wanted to ask Dr. Kochubovski from the PHPI to do re-analyse of waters, and wanted to ask MAFWE budget assistance.

Mr. Blagoja added that the Ministry of Health is responsible for conducting official survey, and they should provide the assistance.

Mr. Kajima agreed concerning the water re-analyse. Related to the soil contaminations are groundwater contaminations, and the Pilot project experience is a good example. Mr. Mayor expects the upcoming soil and crop analyses in two weeks. After the analyses are completed, a WG for the Action Plan is going to be assembled, and final discussions and conclusions will be adopted.

Mr. Kajima then proceeded to the agenda. He reminded that MEPP has new organization; this fact was confirmed on previous Steering Committee meeting by Mrs. Ana Karanfilovska, however there is no regulation related to soil contamination management. There is an environmental sector in the Administration for Environment, and inside a division/department of waste and soil.

Mr. Kajima reminded about the institutional framework for soil contamination management. Regarding the Environmental standards for soil, Mr. Kajima reminded that it is important for Macedonia to conform to EU Directives. Regarding the Study, for purpose of evaluation of the contamination, tentative reference value were set up (these were shown in Box-2 in the materials); calculated at the Technical committee meetings from TDI set by WHO. These values referred to total content values, and even more important are the soil elution reference values.

Then Mr. Kajima presented the procedure of Finding and selection of soil contamination area. In the procedure of soil contamination survey, survey objectives sites are limited to be designated to the business places using harmful substances. The MEPP has a cadastre of polluters, and they should have the initiative for institutionalising soil contamination management. MAFWE should take initiative for agricultural land.

In the procedure of Finding and selection of soil contamination area, there is a form for registering potential soil polluter, and also checklist should be used if the company uses harmful substances etc. If the authority suspects for soil contamination, then the company should be put into the database, the site should be registered and then prioritization should be made.

Mr. Kajima then explained the proposed Soil contamination survey method, and soon after explained the checklist consisting of 4 sections. The most important section is the last, utilization of harmful substances.

Mr. Okazaki presented the Outline of the general survey for soil contamination.

Regarding the density of survey, Mr. Okazaki pointed out that the grid size depends on the land-use. For urban areas the maximum grid size should be 30m, and for agricultural land this is 200m. Related to the sampling method, 5 point method was used, depth 0 to 30cm and quantity 0.5 kg soil each point. The procedure then follows with narrowing down the grid size for the grids with higher concentration of contaminants (refer to reference values).

Then Mr. Okazaki explained the outline about the detailed survey. This includes drilling survey, ground water monitoring, and evaluation of the detailed survey.

Mr. Okazaki explained the outline about the Chemical analyses method for soil contamination. As a result from the pilot project, the ISO methods are recommended for future chemical analyses of soil in Macedonia.

Regarding the Quality control, the recommendation is to use 3 from proposed 5 methods for quality control check.

Mr. Kajima presented the table of the summary report of the results of the soil contamination survey.

Mr. Kajima explained that in Japan the common principle is Polluter Pay Principle. However, in Macedonia the history of soil contamination is related to public owned company, and therefore the Government has the responsibility for undertaking counter measures.

Mr. Kajima explained the procedure for counter-measures. After evaluation of countermeasure plan, temporary countermeasures should be executed.

The temporary countermeasures can be divided in 3 classes:

- Countermeasures to prevent human intake
- Countermeasures to prevent spreading of contaminations
- Monitoring

After undertaking temporary countermeasures, permanent countermeasures should be executed.

Mr. Kajima scheduled the next meeting in 7 days.

(July 17, 2007)

**The Study on Capacity Development for Soil Contamination
Management related to Mining in the Republic of Macedonia**

Minutes of Meeting, 6th Working Group for Master Plan

1. **Title of Meeting** : 6th Meeting of Working Group for Master Plan
 2. **Date and Time** : 14:00 ~ 16:00 on July 17, 2007
 3. **Place** : Meeting Room at Radio TV Bldg.
 4. **Member of Meeting :**
(Counterparts)
 - 6) Mr. Blagoja Stefanovski Head of Unit, State Agricultural Inspectorate
 - 7) Ms. Vesna Kusakatova Associate, State Agricultural Inspectorate
 - 8) Ms. Jeton Kuchi Department of Exploration and Exploitation, MoE
 - 9) Dr. Katerina Gerazova Food Directorate, MoH
(Study Team)
 - 6) Mr. Kajima Mikio Team Leader/ Soil contamination
 - 7) Mr. Okazaki Masatsugu Expert for Soil and Natural Environment Survey
 5. **Agenda**
 - 1) Society/Organisation and Technical Level of Soil Contamination Management for M/P
 - 2) Overall Review on Soil Contamination Management
 6. **Materials**
 - 1) Master Plan of Capacity Development of Soil Contamination Management
-

Minutes of Working Group of Master Plan -6

On the final day for this working group, the JICA Study Team (Mr. Kajima, Team Leader) presented the contents of the Master Plan.

1) Technical Level of capacity Development

While explaining the Institutional framework for soil contamination management, Mr. Kajima recommended a Technical Advisory Council to be founded in the MEPP, consisting of nominated persons from MEPP, MoE, MAFWE, MLSG, MoH and representative of municipalities.

Regarding the research of the hot spots by many experts in the past, the JICA Study Team is respecting these researches. Thus, in the procedure of Soil Contamination Management, the survey can be divided in:

- Hot spots survey on known sites, and
- Inventory or cadastre survey, to collect information of companies that use harmful substances.

The survey method can be divided in tasks:

- 1st task is to define the soil contamination,
- 2nd task:
 - 1) Inventory or cadastre survey, to collect information of companies that use harmful substances,
 - 2) Hot spots survey.
- 3rd task is prioritization of Investigation sites for soil contamination surveys,
- 4th task is soil contamination survey method,
- 5th task is reporting of SC survey results,
- 6th task is countermeasures method for soil contamination, and
- 7th task is establishing monitoring method for soil contamination.

Mr. Kajima explained the 2nd task, finding and selection of soil contamination sites, includes the sites related to mining. Then Mr. Kajima presented the map Hot spots in Macedonia and explained the list of the Hot spots of soil contamination related to mining in Macedonia. This list was originally created by UNEP, and the sites are prioritized and sorted by the environmental risk level.

Mr. Jeton Kuchi asked Kajima-san about the Japanese experience for fighting soil contamination.

Mr. Kajima replied and briefly explained concerning the environmental protection works in Japan. The mining companies are responsible for closure of the mines, along with all necessary activities to protect the environment.

In the case of Macedonia, if the mine of state company is bankrupted, the Government should take the responsibility to conduct soil contamination management. If bankrupted mine is purchased by other company, it depends from the contract between the Government and the new company about the former contamination.

Mr. Kajima explained that for one hot spot, Lojane Mine near Kumanovo, UNEP is taking some actions to cover the ore and tailing, and to separate the polluted mine waters from the clean surface and ground waters.

Mr. Kajima moved to explain the third task from the survey method – prioritization of investigation objective sites.

After Task-3 of prioritisation was done, the soil contamination surveys as Task-5 will be successively carried out. According the results of the soil contamination surveys as Task-5, the contaminated sites will be registrated, if the site is certified to be contaminated by survey. Task-6 is to consider both the prioritisation and remediation counter-measures, then the counter-measures will be successively done. Task-7 is to examine monitoring plan during survey and counter-measuring works and after counter-measures.

Mr. Kajima explained the Social Level of capacity development, consisting of awareness, social education, researches, training of soil contamination surveys, etc., risk communication, resident participation, NGO, etc.

Mr. Kajima explained the Technical Level of capacity development, consisting of soil contamination survey, data analysis, measuring method for soil contamination, monitoring method, information management, etc.

2) Review of the Master Plan of Soil Contamination management

Mr. Kajima moved to explain overall of the Master Plan of soil contamination management. The Master Plan was resulted to be amended and added by discussion in the meeting. Do you have questions and comments concerning the Master Plan.

Ms Vesna (MAFWE) said that it has consistence, so that we will submit it to the Ministry.

Mr. Kajima said that we are going to present the Master Plan to next Steering Committee. The Master Plan is translated to Macedonian language and will be sent it to committee members of S/C. Also, if you have comments, please contact us as soon as possible.

Mr. Kajima thanks to all members of working group to attend and discuss concerning the Master Plan on soil contamination management.

