

APPENDIX A

Table 4 - Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil

B. Soil to Groundwater Numeric Values<sup>1</sup>

REGULATED SUBSTANCE	CASRN	Used Aquifers								Non-use Aquifers				Soil Buffer Distance (feet)
		TDS ≤ 2500				TDS > 2500				R		NR		
		R		NR		R		NR		R		NR		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
ALUMINUM	7429-90-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	7440-36-0	0.6	27	0.6	27	60	2700	60	2700	600	27000	600	27000	15
ARSENIC	7440-38-2	5	150	5	150	500	15000	500	15000	5000	150000	5000	150000	15
[ASBESTOS]	[42001-29-5]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]
BARIUM AND COMPOUNDS	7440-39-3	200	8200	200	8200	20000	190000	20000	190000	190000	190000	190000	190000	15
BERYLLIUM	7440-41-7	0.4	320	0.4	320	40	32000	40	32000	400	190000	400	190000	10
BORON AND COMPOUNDS	7440-42-8	[6.0] 60	6.7	60	6.7	6000	670	6000	670	60000	6700	60000	6700	NA
CADMIUM	7440-43-9	0.5	38	0.5	38	50	3800	50	3800	500	38000	500	38000	15
CHROMIUM III	16065-83-1	10	190000	10	190000	1000	190000	1000	190000	10000	190000	10000	190000	5
CHROMIUM VI	18540-29-9	[48] 10	[340] 190	[54] 10	[970] 190	[1800] 1000	[34000] 19000	[5400] 1000	[97000] 19000	[180000] 190000	[540000] 190000	[540000] 190000	190000	15
COBALT	7440-48-4	220	24	610	68	22000	2400	61000	6800	190000	24000	190000	68000	NA
COPPER	7440-50-8	100	36000	100	36000	10000	190000	10000	190000	100000	190000	100000	190000	10
CYANIDE, FREE	57-12-5	20	200	20	200	2000	20000	2000	20000	20000	190000	20000	190000	20
IRON	7439-89-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	7439-92-1	0.5	450	0.5	450	50	45000	50	45000	500	190000	500	190000	10
MANGANESE	7439-96-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	7439-97-6	0.2	10	0.2	10	20	1000	20	1000	200	10000	200	10000	15
NICKEL	7440-02-0	10	650	10	650	1000	65000	1000	65000	10000	190000	10000	190000	15
SELENIUM	7782-49-2	5	26	5	26	500	2600	500	2600	5000	26000	5000	26000	20
SILVER	7440-22-4	10	84	10	84	1000	8400	1000	8400	10000	84000	10000	84000	20
THALLIUM	7440-28-0	0.2	14	0.20	14	20	1400	20	1400	200	14000	200	14000	15
TIN	7440-31-5	2200	240	6100	680	190000	24000	190000	68000	190000	190000	190000	190000	NA
VANADIUM	7440-62-2	[0.24] 26	[240] 26000	[0.58] 72	[580] 72000	[24] 2600	[24000] 190000	[58] 7200	[58000] 190000	[240] 190000	190000	[580] 72000	190000	5
ZINC	7440-66-6	200	12000	200	12000	20000	190000	20000	190000	190000	190000	190000	190000	15

<sup>1</sup> For other options see Section 250.308

All concentrations in mg/kg

R - Residential

NR - Non-Residential

G - Ingestion

H - Inhalation

C - Cap

U - UBK Model

S - SEGH Model

NA - Not Applicable