

**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	
ALUMINIUM	7429905	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	7440360	0.6	27	0.6	27	60	2700	60	2700	600	27000	600	27000	15
ARSENIC	7440382	5	150	5	150	500	15000	500	15000	5000	150000	5000	150000	15
BARIUM AND COMPOUNDS	7440393	200	8200	200	8200	20000	190000	20000	190000	190000	190000	190000	190000	15
BERYLLIUM	7440417	0.4	320	0.4	320	40	32000	40	32000	400	190000	400	190000	10
BORON AND COMPOUNDS	7440428	60	6.7	60	6.7	6000	670	6000	670	60000	6700	60000	6700	NA
CADMIUM	7440439	0.5	38	0.5	38	50	3800	50	3800	500	38000	500	38000	15
CHROMIUM (III)	16065831	10	190000	10	190000	1000	190000	1000	190000	10000	190000	10000	190000	5
CHROMIUM (VI)	18540299	10	190	10	190	1000	19000	1000	19000	10000	190000	10000	190000	15
COBALT	7440484	73	8.1	200	22	7300	810	20000	2200	73000	8100	190000	22000	NA
COPPER	7440508	100	36000	100	36000	10000	190000	10000	190000	100000	190000	100000	190000	10
CYANIDE, FREE	57125	20	200	20	200	2000	20000	2000	20000	20000	190000	20000	190000	20
IRON	7439896	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	7439921	0.5	450	0.5	450	50	45000	50	45000	500	190000	500	190000	10
MANGANESE	7439965	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	7439976	0.2	10	0.2	10	20	1000	20	1000	200	10000	200	10000	15
NICKEL	7440020	10	650	10	650	1000	65000	1000	65000	10000	190000	10000	190000	15
SELENIUM	7782492	5	26	5	26	500	2600	500	2600	5000	26000	5000	26000	20
SILVER	7440224	10	84	10	84	1000	8400	1000	8400	10000	84000	10000	84000	20
THALLIUM	7440280	0.2	14	0.20	14	20	1400	20	1400	200	14000	200	14000	15
TIN	7440315	2200	240	6100	680	190000	24000	190000	68000	190000	190000	190000	190000	NA
VANADIUM	7440622	26	26000	72	72000	2600	190000	7200	190000	26000	190000	72000	190000	5
ZINC	7440666	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