



DEEP-REM-SEH-FS-500  
**REFERENCE TABLE C**  
 Inorganic Substances

**Significant Environmental Hazard Condition  
 Notification Threshold Concentrations**

	Drinking Water Well Groundwater Protection Criteria (µg/l)	Surface Soil Contamination Direct Exposure Criteria (mg/kg)			Surface Water 10 x Acute Toxicity <sup>3</sup> (µg/l)	
		Residential Land Use (15 x Res. DEC)	Industrial or Commercial Land Use (30 x I/C DEC)	Industrial or Commercial Land within 300 ft. of Residential Use (15 x I/C DEC) (note 8)	Fresh water	Salt water
Aluminum	note 7	NE	NE	NE	7500	note 2
Antimony	6	405	246000	123000	note 2	note 2
Arsenic	50	150	300	150	3400	690
Barium	1000	70500	note 1	note 1	note 2	note 2
Beryllium	4	30	60	30	note 2	note 2
Cadmium	5	510	30000	15000	10	400
Chromium, trivalent	NE	58500	note 1	75600	3230	note 2
Chromium, hexavalent	NE	1500	3000	1500	160	11000
Chromium, total	50	NE	NE	NE	NE	NE
Copper	1300	37500	note 1	note 1	143 (note 4)	48
Lead	15	6000	30000	15000	300	2100
Mercury	2	300	18300	9150	14 (note 5)	18 (note 5)
Nickel	100	21000	225000	112500	2605	740
Selenium	50	5100	300000	150000	200 (note 5)	2900 (note 5)
Silver	36	5100	300000	150000	10.2	19
Thallium	5	81	4800	2400	note 2	note 2
Vanadium	50	7050	420000	210000	note 2	note 2
Zinc	5000	300000	note 1	note 1	650	900

Polychlorinated Biphenyls						
PCBs	0.5	15	30 (note 9)	15 (note 10)	note 2	note 2
Other Substances						
Ammonia	note 7	NE	NE	NE	note 6	2330 (note 6)
Chlorine	note 7	NE	NE	NE	190	130
Chloride	note 7	NE	NE	NE	note 1	note 2
Cyanide	200	21000	note 1	615000	note 2	note 2
Cyanide (Total)	NE	NE	NE	NE	220	10
Asbestos	7(mfl)	NE	NE	NE	note 2	note 2

Refer to the Remediation Standard or Water Quality Standards Regulations for source of numbers reported or used in calculation for numbers in this table.

Information in this table is provided for convenience; it is the user's responsibility to verify that the tabulated concentrations are correct. In the case of errors in this table, the calculated concentrations, according to the provisions of CGS Section 22a-6u, govern.

**Note:** There are no established target indoor air concentrations for the tabulated inorganic substances; thus there are no applicable threshold concentrations to trigger notification for a volatilization hazard. In the event that high levels of mercury are present in close proximity to structures, contact DEEP's Remediation Division.

Contact DEEP's Emergency Response and Spill Prevention Division if high levels of ammonia or cyanide threaten air quality.

Note 1 - Calculated concentration is greater than 100% of the concentration (>1 million ppm); no hazard notification required.

Note 2 - No acute toxicity criterion published in Water Quality Criteria to form the basis for a threshold concentration.

Note 3 - Ten times Acute Aquatic Toxicity value in Table 3: Numeric Water Quality Criteria in Water Quality Standards Regulations; dissolved values unless noted.

Note 4 - Site specific criterion (10x=257 ug/l) applies to certain river segments specified in Water Quality Criteria.

Note 5 - Total rather than dissolved.

Note 6 - Varies with temperature, pH, and salmonids or salinity. Please refer to WQS Table 3, Notes 14 and 15.

Note 7 - If detected in a supply well and associated with release being investigated, notification required under CGS 22a-6u(c)(1)(B).

Note 8 - If covered by pavement or fenced, use 30 x I/C DEC criteria.

Note 9 - Calculated Industrial or Commercial concentration of 300 mg/kg only applies to site/area meeting the "other restricted-access" under [40 CFR 761.123](#).

Note 10 - Use of I/C DEC cannot apply to areas within 300 feet of residential use, as per the definition of "other restricted-access" in [40 CFR 761.123](#).

NE No established criterion to use in determining the significant environmental hazard notification threshold concentration.