

Appendix A

Table 2 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L		R	NR
		R	NR	R	NR		
ANTIMONY	7440-36-0	6 M	6 M	600 M	600 M	6,000 M	6,000 M
ARSENIC	7440-38-2	10 M	10 M	1,000 M	1,000 M	10,000 M	10,000 M
ASBESTOS (fibers/L)	12001-29-5	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M
BARIUM AND COMPOUNDS	7440-39-3	2,000 M	2,000 M	200,000 M	200,000 M	2,000,000 M	2,000,000 M
BERYLLIUM	7440-41-7	4 M	4 M	400 M	400 M	4,000 M	4,000 M
BORON AND COMPOUNDS	7440-42-8	6,000 H	6,000 H	600,000 H	600,000 H	6,000,000 H	6,000,000 H
CADMIUM	7440-43-9	5 M	5 M	500 M	500 M	5,000 M	5,000 M
CHROMIUM (TOTAL)	7440-47-3	100 M	100 M	10,000 M	10,000 M	100,000 M	100,000 M
COBALT	7440-48-4	[13] 10 G	[35] 29 G	[1,300] 1,000 G	[3,500] 2,900 G	[13,000] 10,000 G	[35,000] 29,000 G
<b>COPPER</b>	<b>7440-50-8</b>	<b>1,000 M</b>	<b>1,000 M</b>	<b>100,000 M</b>	<b>100,000 M</b>	<b>1,000,000 M</b>	<b>1,000,000 M</b>
CYANIDE, FREE	57-12-5	200 M	200 M	20,000 M	20,000 M	200,000 M	200,000 M
FLUORIDE	16984-48-8	4,000 M	4,000 M	400,000 M	400,000 M	4,000,000 M	4,000,000 M
LEAD	7439-92-1	5 M	5 M	500 M	500 M	5,000 M	5,000 M
LITHIUM	7439-93-2	[83] 69 G	[230] 190 G	[8,300] 6,900 G	[23,000] 19,000 G	[83,000] 69,000 G	[230,000] 190,000 G
MANGANESE	7439-96-5	300 H	300 H	30,000 H	30,000 H	300,000 H	300,000 H
MERCURY	7439-97-6	2 M	2 M	200 M	200 M	2,000 M	2,000 M
MOLYBDENUM	7439-98-7	40 H	40 H	4,000 H	4,000 H	40,000 H	40,000 H
NICKEL	7440-02-0	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
NITRATE NITROGEN	14797-55-8	10,000 M	10,000 M	1,000,000 M	1,000,000 M	10,000,000 M	10,000,000 M
NITRITE NITROGEN	14797-65-0	1,000 M	1,000 M	100,000 M	100,000 M	1,000,000 M	1,000,000 M
PERCHLORATE	7790-98-9	15 H	15 H	1,500 H	1,500 H	15,000 H	15,000 H
SELENIUM	7782-49-2	50 M	50 M	5,000 M	5,000 M	50,000 M	50,000 M
SILVER	7440-22-4	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
STRONTIUM	7440-24-6	4,000 H	4,000 H	400,000 H	400,000 H	4,000,000 H	4,000,000 H
THALLIUM	7440-28-0	2 M	2 M	200 M	200 M	2,000 M	2,000 M
TIN	7440-31-5	[25,000] 21,000 G	[70,000] 58,000 G	[2,500,000] 2,100,000 G	[7,000,000] 5,800,000 G	[25,000,000] 21,000,000 G	[70,000,000] 58,000,000 G

All concentrations in µg/L (except asbestos)

M = Maximum Contaminant Level

H = Lifetime Health Advisory Level

SMCL = Secondary Maximum Contaminant Level

G = Ingestion

N = Inhalation

R = Residential

NR = Nonresidential

**PA State MCL adopted as MSC for Copper and Lead**

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		R	NR	R	NR		
VANADIUM	7440-62-2	[2.9] <u>2.4</u> G	[8.2] <u>6.8</u> G	[290] <u>240</u> G	[820] <u>680</u> G	[2,900] G <u>2,400</u>	[8,200] G <u>6,800</u>
ZINC AND COMPOUNDS	7440-66-6	2,000 H	2,000 H	200,000 H	200,000 H	2,000,000 H	2,000,000 H

SECONDARY CONTAMINANTS			
REGULATED SUBSTANCE	CASRN	SMCL	UNITS
ALUMINUM	7429-90-5	200	µg/L
CHLORIDE	7647-14-5	250,000	µg/L
<b>[COPPER]</b>	<b>[7440-50-8]</b>	<b>[1000]</b>	<b>[µg/L]</b>
<b>[FLUORIDE]</b>	<b>[7681-49-4]</b>	<b>[2,000]</b>	<b>[µg/L]</b>
IRON	7439-89-6	300	µg/L
<b>[MANGANESE]</b>	<b>[7439-96-5]</b>	<b>[50]</b>	<b>[µg/L]</b>
SULFATE	7757-82-6	250,000	µg/L

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