

Proposed Changes to NC Aquatic Life Standards for Metals

21-Aug-09

All standards are presented as total recoverable metals. Hardness dependent metals* are calculated at 25 mg/L hardness

Metal	Current Freshwater Standard (ug/L)	Proposed Freshwater Standards (ug/L)		Current Saltwater Standard (ug/L)	Proposed Saltwater Standards (ug/L)		Additional current standards (ug/L)	
	Aquatic Life	Aquatic Life		Aquatic Life	Aquatic Life		Human ³ Health	Water ⁴ Supply
	Chronic	Chronic	Acute	Chronic	Chronic	Acute		
Arsenic	50	150	340	50	40	70	10	10
Beryllium	6.5	6.5	65	none	none	none		
Cadmium*	2/ 0.4 trout	0.2	0.8 / 0.5 trout	5	9	40		
Chromium (total)	50	Proposed for removal		20	Proposed for removal			
Chromium III *	none	30	580	none	none			
Chromium VI	none	11	16	none	50	1100		
Copper *	7 (AL)	3 (AL)	4 (AL)	3 (AL)	4 (AL)	6 (AL)		
Iron	1 mg/L (AL)	Proposed for removal		none	none			
Lead *	25	0.5	14	25	8.5	220		
Nickel *	88	16	145	8.3	8.3	75		25
Silver *	0.06 (AL)	0.06 (AL)	0.4 (AL)	0.1 (AL)	0.1 (AL)	2 (AL)		
Zinc *	50 (AL)	37(AL)	37 (AL)	86 (AL)	86 (AL)	95 (AL)		

* Hardness Dependent Metals: Calculated at 25 mg/L hardness (Applies to Freshwater only)

AL Action Level standards (15A NCAC 02B .0211(4) and 15A NCAC 02B .0220(4))

¹ 15A NCAC 02B .0211

² 15A NCAC 02B .0220

³ 15A NCAC 02B .0208

⁴ 15A NCAC 02B .0212, .0214, .0215 and .0216

