

**62-302.530. Aquatic Life Criteria for Toxics Applicable to ALL Aquatic Life Use Tiers (AL1 through AL4).**

<b>Criteria Attribute</b>	<b>Parameter</b>	<b>Units</b>	<b>Predominantly Fresh Waters</b>	<b>Predominantly Marine Waters</b>
AL-TOX	(2) Aluminum	Milligrams/L		$\leq 1.5$
AL-TOX	(3) Ammonia (un-ionized)	Milligrams/L as NH <sub>3</sub>	$\leq 0.02$	
AL-TOX	(5) (b) Arsenic (trivalent)	Micrograms/L measured as total recoverable Arsenic		$\leq 36$
AL-TOX	(13) Bromates	Milligrams/L		$\leq 100$
AL-TOX	(14) Bromine (free molecular)	Milligrams/L		$\leq 0.1$
AL-TOX	(15) Cadmium	Micrograms/L See Notes (1) and (3).	$Cd \leq e(0.7409[\ln H]-4.719)$	$\leq 8.8$
AL-TOX	(17) Chlorides	Milligrams/L		Not increased more than 10% above normal background. Normal daily and seasonal fluctuations shall be maintained.
AL-TOX	(18) Chlorine (total residual)	Milligrams/L	$\leq 0.01$	$\leq 0.01$
AL-TOX	(19) (a) Chromium (trivalent)	Micrograms/L measured as total recoverable Chromium See Notes (1) and (3).	$Cr (III) \leq e(0.819[\ln H]+0.6848)$	
AL-TOX	(19) (b) Chromium	Micrograms/L	$\leq 11$	$\leq 50$

	(hexavalent)	See Note (3).		
AL-TOX	(20) Chronic Toxicity (see definition in Section 62-302.200(4), F.A.C. and also see below, "Substances in concentrations which...")			
AL-TOX	(23) Copper	Micrograms/L See Notes (1) and (3).	$Cu \leq e^{(0.8545[\ln H]-1.702)}$	$\leq 3.7$
AL-TOX	(24) Cyanide	Micrograms/L	$\leq 5.2$	$\leq 1.0$
ALL	(25) Definitions (see Section 62-302.200, F.A.C.)		-	-
AL-TOX	(26) Detergents	Milligrams/L	$\leq 0.5$	$\leq 0.5$
AL-TOX	(32) Fluorides	Milligrams/L	$\leq 10.0$	$\leq 5.0$
ALL	(33) "Free Froms" (see Minimum Criteria in Section 62-302.500, F.A.C.)		Applicable to all categories.	
ALL	(34) "General Criteria" (see Section 62-302.510, F.A.C. and individual criteria)			
AL-TOX	(38) Iron	Milligrams/L	$\leq 1.0$	$\leq 0.3$
AL-TOX	(39) Lead	Micrograms/L	$Pb \leq$	$\leq 8.5$

		See Notes (1) and (3).	$e^{(1.273 [\ln H] - 4.705)}$	
ALL	(42) Minimum Criteria (see Section 62-302.500, F.A.C.)		Applicable to all categories.	
ALL	(43) Mixing Zones (See Section 62-4.246, F.A.C.)			
AL-TOX	(44) Nickel	Micrograms/L See Notes (1) and (3).	$Ni \leq e^{(0.846[\ln H] + 0.0584)}$	$\leq 8.3$
AL-TOX	(49) (a) Oils and Greases	Milligrams/L	Dissolved or emulsified oils and greases shall not exceed 5.0	Dissolved or emulsified oils and greases shall not exceed 5.0
	<b>(50) Pesticides and Herbicides</b>			
AL-TOX	(50) (c) Aldrin	Micrograms/L	$\leq .00014$ annual avg.; 3.0 max	$\leq .00014$ annual avg.; 1.3 max
AL-TOX	(50) (e) Chlordane	Micrograms/L	$\leq 0.00059$ annual avg.; 0.0043 max	$\leq 0.00059$ annual avg.; 0.004 max
AL-TOX	(50) (f) DDT	Micrograms/L	$\leq 0.00059$ annual avg.; 0.001 max	$\leq 0.00059$ annual avg.; 0.001 max
AL-TOX	(50) (g) Demeton	Micrograms/L	$\leq 0.1$	$\leq 0.1$
AL-TOX	(50) (h) Dieldrin	Micrograms/L	$\leq 0.00014$ annual avg.; 0.0019 max	$\leq 0.00014$ annual avg.; 0.0019 max
AL-TOX	(50) (i) Endosulfan	Micrograms/L	$\leq 0.056$	$\leq 0.0087$
AL-TOX	(50) (j) Endrin	Micrograms/L	$\leq 0.0023$	$\leq 0.0023$
AL-TOX	(50) (k) Guthion	Micrograms/L	$\leq 0.01$	$\leq 0.01$
AL-TOX	(50) (l) Heptachlor	Micrograms/L	$\leq 0.00021$ annual avg.; 0.0038 max	$\leq 0.00021$ annual avg.; 0.0036 max
AL-TOX	(50) (m) Lindane (g-benzene hexachloride)	Micrograms/L	$\leq 0.063$ annual avg.; 0.08 max	$\leq 0.063$ annual avg.; 0.16 max

AL-TOX	(50) (n) Malathion	Micrograms/L	$\leq 0.1$	$\leq 0.1$
AL-TOX	(50) (o) Methoxychlor	Micrograms/L	$\leq 0.03$	$\leq 0.03$
AL-TOX	(50) (p) Mirex	Micrograms/L	$\leq 0.001$	$\leq 0.001$
AL-TOX	(50) (q) Parathion	Micrograms/L	$\leq 0.04$	$\leq 0.04$
AL-TOX	(50) (r) Toxaphene	Micrograms/L	$\leq 0.0002$	$\leq 0.0002$
AL-TOX	(52) (c) 3. Phenolic Compound: Penta-chlorophenol	Micrograms/L	$\leq 30$ max; $\leq 8.2$ annual avg; $\leq e(1.005[\text{pH}]-5.29)$	$\leq 7.9$
AL-TOX	(53) Phosphorus (Elemental)	Micrograms/L		$\leq 0.1$
AL-TOX	(54) Phthalate Esters	Micrograms/L	$\leq 3.0$	
AL-TOX	(55) Polychlorinated Biphenyls (PCBs)	Micrograms/L	$\leq 0.000045$ annual avg.; 0.014 max	$\leq 0.000045$ annual avg.; 0.03 max
AL-TOX	(58) Selenium	Micrograms/L	$\leq 5.0$	$\leq 71$
AL-TOX	(59) Silver	Micrograms/L See Note (3).	$\leq 0.07$	See Minimum criteria in Section 62-302.500(1)(c)
AL-TOX	(61) Substances in concentrations which injure, are chronically toxic to, or produce adverse physiological or behavioral response in humans, plants, or animals		None shall be present.	
AL-TOX	(70) Zinc	Micrograms/L See Notes (1) and (3).	$Zn \leq e^{(0.8473[\text{lnH}]+0.884)}$	$\leq 86$