

**Washington toxics criteria as approved by EPA**

(3) The following criteria, found in Table 240(3), shall be applied to all surface waters of the state of Washington for the protection of aquatic life. The department may revise the following criteria on a statewide or water body-specific basis as needed to protect aquatic life occurring in waters of the state and to increase the technical accuracy of the criteria being applied. The department shall formally adopt any appropriate revised criteria as part of this chapter in accordance with the provisions established in chapter 34.05 RCW, the Administrative Procedure Act. The department shall ensure there are early opportunities for public review and comment on proposals to develop revised criteria. Values are µg/L for all substances except Ammonia and Chloride which are mg/L.

Table 240(3)

Substance	Toxics Substances Criteria		Marine Water	
	Freshwater		Acute	Chronic
	Acute	Chronic	Acute	Chronic
Aldrin/Dieldrin e	2.5a	0.0019b	0.71a	0.0019b
Ammonia (un-ionized NH <sub>3</sub> ) hh	f,c	g,d	0.233h,c	0.035h,d
Arsenic dd	360.0c	190.0d	69.0c,ll	36.0d,cc,ll
Cadmium dd	i,c	j,d	42.0c	9.3d
Chlordane	2.4a	0.0043b	0.09a	0.004b
Chloride (Dissolved) k	860.0h,c	230.0h,d	-	-
Chlorine (Total Residual)	19.0c	11.0d	13.0c	7.5d
Chlorpyrifos	0.083c	0.041d	0.011c	0.0056d
Chromium (Hex) dd	15.0c,l,ii	10.0d,jj	1,100.0c,l,ll	50.0d,ll
Chromium (Tri) gg	m,c	n,d	-	-
Copper dd	o,c	p,d	4.8c,ll	3.1d,ll
Cyanide ee	22.0c	5.2d	1.0c,mm	d,mm
DDT (and metabolites)	1.1a	0.001b	0.13a	0.001b
Dieldrin/Aldrin e	2.5a	0.0019b	0.71a	0.0019b
Endosulfan	0.22a	0.056b	0.034a	0.0087b
Endrin	0.18a	0.0023b	0.037a	0.0023b
Heptachlor	0.52a	0.0038b	0.053a	0.0036b
Hexachlorocyclohexane (Lindane)	2.0a	0.08b	0.16a	-
Lead dd	q,c	r,d	210.0c,ll	8.1d,ll
Mercury s	2.1c,kk,dd	0.012d,ff	1.8c,ll,dd	0.025d,ff
Nickel dd	t,c	u,d	74.0c,ll	8.2d,ll
Parathion	0.065c	0.013d	-	-
Pentachlorophenol (PCP)	w,c	v,d	13.0c	7.9d
Polychlorinated Biphenyls (PCBs)	2.0b	0.014b	10.0b	0.030b

Selenium	20.0c,ff	5.0d,ff	290c,ll,dd	71.0d, x,ll,dd
Silver dd	y,a	-	1.9a,ll	-
Toxaphene	0.73c,z	0.0002d	0.21c,z	0.0002d
Zinc dd	aa,c	bb,d	90.0c,ll	81.0d,ll

Notes to Table 240(3):

- An instantaneous concentration not to be exceeded at any time.
- A 24-hour average not to be exceeded.
- A 1-hour average concentration not to be exceeded more than once every three years on the average.
- A 4-day average concentration not to be exceeded more than once every three years on the average.
- Aldrin is metabolically converted to Dieldrin. Therefore, the sum of the Aldrin and Dieldrin concentrations are compared with the Dieldrin criteria.
- Shall not exceed the numerical value in total ammonia nitrogen (mg N/L) given by:

$$\begin{array}{l}
 \textit{For salmonids} \\
 \textit{present:} \quad \frac{0.275}{1 + 10^{\frac{7.204 - pH}{pH}}} + \frac{39.0}{1 + 10^{\frac{pH - 7.204}{7.204}}} \\
 \\
 \textit{For salmonids} \\
 \textit{absent:} \quad \frac{0.411}{1 + 10^{\frac{7.204 - pH}{pH}}} + \frac{58.4}{1 + 10^{\frac{pH - 7.204}{7.204}}}
 \end{array}$$

(e) **Aquatic life turbidity criteria.** Turbidity is measured in "nephelometric turbidity units" or "NTUs." Table 210 (1)(e) lists the one-day maximum turbidity allowed as a result of human actions for each of the aquatic life use categories.

**Table 210 (1) (e)**

<b>Aquatic Life Turbidity Criteria in Marine Water Category</b>	<b>NTUs</b>
<i>Extraordinary quality</i>	Turbidity must not exceed: <ul style="list-style-type: none"> <li>• 5 NTU over background when the background is 50 NTU or less; or</li> </ul>

	<ul style="list-style-type: none"> <li>• A 10 percent increase in turbidity when the background turbidity is more than 50 NTU.</li> </ul>
<i>Excellent quality</i>	Same as above.
<i>Good quality</i>	Turbidity must not exceed: <ul style="list-style-type: none"> <li>• 10 NTU over background when the background is 50 NTU or less; or</li> <li>• A 20 percent increase in turbidity when the background turbidity is more than 50 NTU.</li> </ul>
<i>Fair quality</i>	Same as above.

Washington water quality standards.pdf

**401.16 Conventional pollutants.**

The following comprise the list of conventional pollutants designated pursuant to section 304(a)(4) of the Act:

1. Biochemical oxygen demand (BOD)
2. Total suspended solids (nonfilterable) (TSS)
3. pH
4. Fecal coliform
5. Oil and grease

<http://www.gpo.gov/fdsys/pkg/CFR-2011-title40-vol29/pdf/CFR-2011-title40-vol29-sec401-16.pdf>