CWA-Effective Human Health Criteria Applicable to Washington

Ecology criteria approved by EPA
EPA federally promulgated criteria

			CWA-Effective Criteria	
	Chemical	CAS Number	Water & Organisms (µg/L)	Organisms Only (µg/L)
1	1,1,1-Trichloroethane	71556	20000	50000
2	1,1,2,2-Tetrachloroethane	79345	0.1	0.3
3	1,1,2-Trichloroethane	79005	0.35	0.90
4	1,1-Dichloroethylene	75354	700	4000
5	1,2,4-Trichlorobenzene	120821	0.036	0.037
6	1,2-Dichlorobenzene	95501	700	800
7	1,2-Dichloroethane	107062	8.9	73
8	1,2-Dichloropropane	78875	0.71	3.1
9	1,2-Diphenylhydrazine	122667	0.01	0.02
10	1,2-Trans-Dichloroethylene	156605	200	1000
11	1,3-Dichlorobenzene	541731	2	2
12	1,3-Dichloropropene	542756	0.22	1.2
13	1,4-Dichlorobenzene	106467	200	200
14	2,3,7,8-TCDD (Dioxin)**	1746016	0.000000013	0.000000014
15	2,4,6-Trichlorophenol	88062	0.25	0.28
16	2,4-Dichlorophenol	120832	10	10
17	2,4-Dimethylphenol	105679	85	97
18	2,4-Dinitrophenol	51285	30	100
19	2,4-Dinitrotoluene	121142	0.039	0.18
20	2-Chloronaphthalene	91587	100	100
21	2-Chlorophenol	95578	15	17
22	2-Methyl-4,6-Dinitrophenol	534521	3	7
23	3,3'-Dichlorobenzidine	91941	0.0031	0.0033
24	3-Methyl-4-Chlorophenol	59507	36	36
25	4,4'-DDD	72548	0.0000079	0.0000079
26	4,4'-DDE	72559	0.00000088	0.00000088
27	4,4'-DDT	50293	0.0000012	0.0000012
28	Acenaphthene	83329	30	30
29	Acrolein	107028	1.0	1.1
30	Acrylonitrile	107131	0.019	0.028
31	Aldrin	309002	0.000000041	0.000000041
32	alpha-BHC	319846	0.000048	0.000048
33	alpha-Endosulfan	959988	6	7
34	Anthracene	120127	100	100
35	Antimony	7440360	6	90
36	Arsenic**	7440382	0.018	0.14
37	Asbestos[a]	1332214	7,000,000 (fibers/L)	

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38	Benzene- Upper CSF	71432	0.44	1.6
39	Benzidine	92875	0.00002	0.000023
40	Benzo(a) Anthracene	56553	0.00016	0.00016
41	Benzo(a) Pyrene	50328	0.000016	0.000016
42	Benzo(b) Fluoranthene	205992	0.00016	0.00016
43	Benzo(k) Fluoranthene	207089	0.0016	0.0016
44	beta-BHC	319857	0.0013	0.0014
45	beta-Endosulfan	33213659	9.7	10
46	Bis(2-Chloroethyl) Ether	111444	0.02	0.06
47	Bis(2-Chloro-1-Methylethyl) Ether*	108601	400	900
48	Bis(2-Ethylhexyl) Phthalate	117817	0.045	0.046
49	Bromoform	75252	4.6	12
50	Butylbenzyl Phthalate	85687	0.013	0.013
51	Carbon Tetrachloride	56235	0.2	0.35
52	Chlordane	57749	0.000022	0.000022
53	Chlorobenzene	108907	100	200
54	Chlorodibromomethane	124481	0.60	2.2
55	Chloroform	67663	100	600
56	Chrysene	218019	0.016	0.016
57	Copper[a]	7440508	1300	
58	Cyanide	57125	9	100
59	Dibenzo(a,h) Anthracene	53703	0.000016	0.000016
60	Dichlorobromomethane	75274	0.73	2.8
61	Dieldrin	60571	0.000000070	0.000000070
62	Diethyl Phthalate	84662	200	200
63	Dimethyl Phthalate	131113	600	600
64	Di-n-Butyl Phthalate	84742	8	8
65	Endosulfan Sulfate	1031078	9	10
66	Endrin	72208	0.002	0.002
67	Endrin Aldehyde	7421934	0.034	0.035
68	Ethylbenzene	100414	29	31
69	Fluoranthene	206440	6	6
70	Fluorene	86737	10	10
71	gamma-BHC; Lindane	58899	0.43	0.43
72	Heptachlor	76448	0.00000034	0.00000034
73	Heptachlor Epoxide	1024573	0.0000024	0.0000024
74	Hexachlorobenzene	118741	0.0000050	0.0000050

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	Chemical	CAS Number	Water & Organisms (µg/L)	Organisms Only (µg/L)
75	Hexachlorobutadiene	87683	0.01	0.01
76	Hexachlorocyclopentadiene	77474	1	1
77	Hexachloroethane	67721	0.02	0.02
78	Indeno(1,2,3-cd) Pyrene	193395	0.00016	0.00016
79	Isophorone	78591	27	110
80	Methyl Bromide	74839	300	2400
81	Methylene Chloride	75092	10	100
82	Methylmercury[b]	22967926		0.03
83	Nickel	7440020	80	100
84	Nitrobenzene	98953	30	100
85	N-Nitrosodimethylamine	62759	0.00065	0.34
86	N-Nitrosodi-n-Propylamine	621647	0.0044	0.058
87	N-Nitrosodiphenylamine	86306	0.62	0.69
88	Pentachlorophenol (PCP)	87865	0.002	0.002
89	Phenol	108952	9000	70000
90	Polychlorinated Biphenyls (PCBs)[c]		0.000007	0.000007
91	Pyrene	129000	8	8
92	Selenium	7782492	60	200
93	Tetrachloroethylene	127184	2.4	2.9
94	Thallium**	7440280	1.7	6.3
95	Toluene	108883	72	130
96	Toxaphene	8001352	0.000032	0.000032
97	Trichloroethylene	79016	0.3	0.7
98	Vinyl Chloride	75014	0.02	0.18
99	Zinc	7440666	1000	1000

[a] This criterion is based on a regulatory level developed under the Safe Drinking Water Act.

[b] This criterion is expressed as the fish tissue concentration of methylmercury (mg methylmercury/kg fish). See *Water Quality Criterion for the Protection of Human Health: Methylmercury* (EPA-823-R-01-001, January 3, 2001) for how this value is calculated using the criterion equation in EPA's 2000 Human Health Methodology rearranged to solve for a protective concentration in fish tissue rather than in water.

[c] This criterion applies to total PCBs (e.g., the sum of all congener or isomer or homolog or Aroclor analyses).

[*] Bis(2-Chloro-1-Methylethyl) Ether was previously listed as Bis(2-Chloroisopropyl) Ether.

[**] EPA withdrew its proposal for these criteria, so the CWA-effective criteria are those that EPA originally promulgated for Washington in the National Toxics Rule.