**TABLE 33C:Water Quality Guidance Values for Toxic PollutantsA**

**Water Quality Guidance Values Summary**

The concentration for each compound listed in Table 33C is a guidance value that can be used in application of Oregon’s Toxic Substances Narrative (340-041-0033(2)) to waters of the state in order to protect aquatic life. All values are expressed as micrograms per liter (µg/L) except where noted. Compounds are listed in alphabetical order with the corresponding EPA number (from National Recommended Water Quality Criteria: 2002, EPA-822-R-02-047), corresponding Chemical Abstract Service (CAS) number, aquatic life freshwater acute and chronic guidance values, and aquatic life saltwater acute and chronic guidance values.

| Table 33C**Water Quality Guidance Values Summary** |
| --- |
| **EPA No.** | **Compound** | **CAS Number** |  |
| **Freshwater** | **Saltwater** |
| **Acute**  | **Chronic**  | **Acute**  | **Chronic**  |
| 56 | Acenaphthene | 83329 | 1,700 | 520 | 970 | 710 |
| 17 | Acrolein | 107028 | 68 | 21 | 55 |   |
| 18 | Acrylonitrile | 107131 | 7,550 | 2,600 |   |   |
| 1 | Antimony | 7440360 | 9,000 | 1,600 |   |   |
| 2 | Arsenic | 7440382 | 850 | 48 | 2,319 | 13 |
| 19 | Benzene | 71432 | 5,300 |   | 5,100 | 700 |
| 59 | Benzidine | 92875 | 2,500 |   |   |   |
| 3 | Beryllium | 7440417 | 130 | 5.3 |   |   |
| 19 B | BHC (Hexachlorocyclohexane-Technical) | 319868 | 100 |   | 0.34 |   |
| 21 | Carbon Tetrachloride | 56235 | 35,200 |   | 50,000 |   |
|  | Chlorinated Benzenes |  | 250 | 50 | 160 | 129 |
|  | Chlorinated naphthalenes |  | 1,600 |   | 7.5 |   |
|  | Chloroalkyl Ethers |  | 238,000 |   |   |   |
| 26 | Chloroform | 67663 | 28,900 | 1,240 |   |   |
| 45 | Chlorophenol 2- | 95578 | 4,380 | 2,000 |   |   |
|  | Chlorophenol 4- | 106489 |   |   | 29,700 |   |
| 52 | Methyl-4-chlorophenol 3- | 59507 | 30 |   |   |   |
| 5a | Chromium (III) | 16065831 |   |   | 10,300 |   |
| 109 | DDE 4,4'- | 72559 | 1,050 |   | 14 |   |
| 110 | DDD 4,4'- | 72548 | 0.06 |   | 3.6 |   |
|  | Diazinon | 333415 | 0.08 | 0.05 |   |   |
|  | Dichlorobenzenes |  | 1,120 | 763 | 1,970 |   |
| 29 | Dichloroethane 1,2- | 107062 | 118,000 | 20,000 | 113,000 |   |
|  | Dichloroethylenes |  | 11,600 |   | 224.000 |   |
| 46 | Dichlorophenol 2,4- | 120832 | 2,020 | 365 |   |   |
| 31 | Dichloropropane 1,2- | 78875 | 23,000 | 5,700 | 10,300 | 3,040 |
| 32 | Dichloropropene 1,3- | 542756 | 6,060 | 244 | 790 |   |
| 47 | Dimethylphenol 2,4- | 105679 | 2,120 |   |   |   |
|  | Dinitrotoluene |  | 330 | 230 | 590 | 370 |
| 16 | Dioxin (2,3,7,8-TCDD)  | 1746016 | 0.01 | 38pg/L |   |   |
| 85 | Diphenylhydrazine 1,2- | 122667 | 270 |   |   |   |
| 33 | Ethylbenzene | 100414 | 32,000 |   | 430 |   |
| 86 | Fluoranthene | 206440 | 3,980 |   | 40 | 16 |
|  | Haloethers |   | 360 | 122 |   |   |
|  | Halomethanes |   | 11,000 |   | 12,000 | 6,400 |
| 89 | Hexachlorobutadiene | 87683 | 90 | 9.3 | 32 |   |
| 90 | Hexachlorocyclopentadiene | 77474 | 7 | 5.2 | 7 |   |
| 91 | Hexachloroethane | 67721 | 980 | 540 | 940 |   |
| 93 | Isophorone | 78591 | 117,000 |   | 12,900 |   |
| 94 | Naphthalene | 91203 | 2,300 | 620 | 2,350 |   |
| 95 | Nitrobenzene | 98953 | 27,000 |   | 6,680 |   |
|  | Nitrophenols |   | 230 | 150 | 4,850 |   |
| 26 B | Nitrosamines | 35576911 | 5,850 |   | **3,300,000** |   |
|  | Pentachlorinated ethanes |   | 7,240 | 1,100 | 390 | 281 |
| 54 | Phenol | 108952 | 10,200 | 2,560 | 5,800 |   |
|  | Phthalate esters |   | 940 | 3 | 2,944 | 3.4 |
|  | Polynuclear Aromatic Hydrocarbons |   |   |   | 300 |   |
|  | Tetrachlorinated Ethanes |   | 9,320 |   |   |   |
| 37 | Tetrachloroethane 1,1,2,2- | 79345 |   | 2,400 | 9,020 |   |
|  | Tetrachloroethanes |   | 9,320 |   |   |   |
| 38 | Tetrachloroethylene | 127184 | 5,280 | 840 | 10,200 | 450 |
|  | Tetrachlorophenol 2,3,5,6 |   |   |   |   | 440 |
| 12 | Thallium | 7440280 | 1,400 | 40 | 2,130 |   |
| 39 | Toluene | 108883 | 17,500 |   | 6,300 | 5,000 |
|  | Trichlorinated ethanes |   | 18,000 |   |   |   |
| 41 | Trichloroethane 1,1,1- | 71556 |   |   | 31,200 |   |
| 42 | Trichloroethane 1,1,2- | 79005 |   | 9,400 |   |   |
| 43 | Trichloroethylene | 79016 | 45,000 | 21,900 | 2,000 |   |
| 55 | Trichlorophenol 2,4,6- | 88062 |   | 970 |   |   |

The following chemicals/compounds/classes are of concern due to the potential for toxic effects to aquatic organisms; however, no guidance values are designated. If these compounds are identified in the waste stream, then a review of the scientific literature may be appropriate for deriving guidance values.

Polybrominated diphenyl ethers (PBDE)

Polybrominated biphenyls (PBB)

Pharmaceuticals

Personal care products

Alkyl Phenols

Other chemicals with Toxic effects

**Footnotes:**

A Values in Table 33C are applicable to all basins.

B This number was assigned to the list of non-priority pollutants in National Recommended Water Quality Criteria: 2002 (EPA-822-R-02-047).