

## Notes on Applicable State and Federal Laws (ARARs)

### Surface Water – Protection of Human Health

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**Surface Water – ARARs – Ambient Water Quality Criteria for Protection of Human Health are concentrations** established under applicable state and federal laws that must be considered when establishing cleanup levels for surface water. See WAC 173-340-730(2)(b)(i), (3)(b)(i), and (4)(b)(i) are accessible in the CLARC Information System using the CLARC Database Search tool. These concentrations are defined as "ambient water quality criteria". The source for each of the values published in the table is listed in the table.

For hazardous substances for which sufficiently protective, health-based concentrations have been established under applicable state and federal laws, the most stringent of those concentrations is used. See WAC 173-340-730(3)(b)(iii), (4)(b)(iii). A concentration established under applicable state and federal laws is sufficiently protective if the excess cancer risk does not exceed 1 in 100,000 ( $1 \times 10^{-5}$ ) and the hazard quotient does not exceed one (1). If the concentration is not sufficiently protective, then either the concentration must be adjusted downward in accordance with WAC 173-340-730(5)(b) or a protective concentration must be calculated using the equations provided in the regulation.

For hazardous substances for which health-based concentrations have not been established under applicable state and federal laws, a protective concentration must be calculated using the equations provided in the regulation. See WAC 173-340-730(3)(b)(iii), (4)(b)(iii).