

Users are advised to consult the Canadian Environmental Quality Guidelines introductory text, factsheet, and/or protocols for specific information and implementation guidance pertaining to each environmental quality guideline.

| | | Water Quality Guidelines for the Protection of Agriculture | | | |
|--|---|---|------|-------------------------|------|
| | | Irrigation | | Livestock | |
| | | Concentration (µg/L) | Date | Concentration (µg/L) | Date |
| Chemical name | Chemical groups | | | | |
| 1,1,1-Trichloroethane CASRN 71556 | Organic Halogenated aliphatic compounds Chlorinated ethanes | Insufficient data | 1991 | Insufficient data | 1991 |
| 1,1,2,2- Tetrachloroethene PCE (Tetrachloroethylene) CASRN 127184 | Organic Halogenated aliphatic compounds Chlorinated ethenes | Insufficient data | 1993 | Insufficient data | 1993 |
| 1,1,2,2-Tetrachloroethane CASRN 79345 | Organic Halogenated aliphatic compounds Chlorinated ethanes | Insufficient data | 1991 | Insufficient data | 1991 |
| 1,1,2-Trichloroethene TCE (Trichloroethylene) CASRN 79-01-6 | Organic Halogenated aliphatic compounds Chlorinated ethenes | Insufficient data | 1991 | 50 | 1991 |
| 1,2,3,4-Tetrachlorobenzene CASRN 634662 | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| 1,2,3,5-Tetrachlorobenzene | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| 1,2,3-Trichlorobenzene CASRN 87616 | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| 1,2,4,5-Tetrachlorobenzene | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |

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|---|---|-------------------|------|-------------------|------|
| 1,2,4-Trichlorobenzene CASRN 120801 | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| 1,2-Dichlorobenzene CASRN 95501 | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| 1,2-Dichloroethane CASRN 1070602 | Organic Halogenated aliphatic compounds Chlorinated ethanes | Insufficient data | 1991 | 5 | 1991 |
| 1,3,5-Trichlorobenzene | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| 1,3-Dichlorobenzene CASRN 541731 | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| 1,4-Dichlorobenzene CASRN 106467 | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| Aldicarb CASRN 116063 | Organic Pesticides Carbamate pesticides | 54.9 | 1993 | 11 | 1993 |
| Aluminium | Inorganic Metals | 5000 | 1987 | 5000 | 1987 |
| Aniline CASRN 62533 | Organic | Insufficient data | 1993 | Insufficient data | 1993 |
| Arsenic CASRN none | Inorganic Metals | 100 | 1997 | 25 | 1997 |
| Atrazine CASRN 1912249 | Organic Pesticides Triazine compounds | 10 | 1989 | 5 | 1989 |
| Beryllium | Inorganic Metals | 100 | 1987 | 100 | 1987 |
| Boron | Inorganic Metals | Variable | 1987 | 5000 | 1987 |

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|---|--|-------------------|----------------|----------------|----------------|
| Bromacil CASRN 314409 | Organic Pesticides | 0.2 | 1997 | 1100 | 1997 |
| Bromoxynil | Organic Pesticides Benzonitrile compounds | 0.33 | 1993 | 11 | 1993 |
| Cadmium CASRN 7440439 | Inorganic Metals | 5.1 | 1996 | 80 | 1996 |
| Calcium | Inorganic Metals | No data | No data | 1 000 000 | 1987 |
| Captan CASRN 133062 | Organic Pesticides | Insufficient data | 1991 | 13 | 1991 |
| Carbaryl CASRN 63252 | Organic Pesticides Carbamate pesticides | Insufficient data | 1997 | 1100 | 1997 |
| Carbofuran CASRN 1564662 | Organic Pesticides Carbamate pesticides | Insufficient data | 1989 | 45 | 1989 |
| Chlordane | Organic Pesticides Organochlorine compounds | <i>No data</i> | <i>No data</i> | 7 | 1987 |
| Chloride | Inorganic | Variable | 1987 | <i>No data</i> | <i>No data</i> |
| Chlorothalonil CASRN 1897456 | Organic Pesticides | 5.8 (other crops) | 1994 | 170 | 1994 |
| Chlorpyrifos CASRN 2921882 | Organic Pesticides Organophosphorus compounds | Insufficient data | 1997 | 24 | 1997 |
| Chromium, hexavalent (Cr(VI)) CASRN 7440473 | Inorganic Metals | 8 | 1997 | 50 | 1997 |
| Chromium, trivalent (Cr(III)) CASRN 7440473 | Inorganic Metals | 4.9 | 1997 | 50 | 1997 |

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|--|---|-------------------|---------|-----------|---------|
| Cobalt | Inorganic Metals | 50 | 1987 | 1000 | 1987 |
| Coliforms, fecal (Escherichia coli) E. coli | Biological | 100 per 100 mL | 1987 | No data | No data |
| Coliforms, total Coliforms | Biological | 1000 per 100 mL | 1987 | No data | No data |
| Colour CASRN N/A | Physical | No data | No data | Narrative | 1999 |
| Copper | Inorganic Metals | Variable | 1987 | Variable | 1987 |
| Cyanazine CASRN 2175462 | Organic Pesticides Triazine compounds | 0.5 | 1990 | 10 | 1990 |
| Cyanobacteria Blue-green algae | Biological | No data | No data | Narrative | 1999 |
| Deltamethrin CASRN 52918635 | Organic Pesticides | Insufficient data | 1997 | 2.5 | 1997 |
| Dibromochloromethane | Organic Halogenated aliphatic compounds Halogenated methanes | Insufficient data | 1992 | 100 | 1992 |
| Dicamba CASRN 1918009 | Organic Pesticides Aromatic Carboxylic Acid | 0.006 | 1993 | 122 | 1993 |
| Dichloro diphenyl trichloroethane; 2,2-Bis(p-chlorophenyl)-1,1,1- trichloroethane DDT (total) | Organic Pesticides Organochlorine compounds | No data | No data | ∞ | 1987 |
| Dichlorobromomethane | Organic Halogenated aliphatic compounds Halogenated methanes | Insufficient data | 1992 | 100 | 1992 |
| Dichloromethane Methylene chloride CASRN 75092 | Organic Halogenated aliphatic compounds Halogenated methanes | Insufficient data | 1992 | 50 | 1992 |

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|---|--|-------------------|----------------|-------------------|------|
| Diclofop-methyl CASRN 51338273 | Organic Pesticides | 0.18 | 1993 | 9 | 1993 |
| Diethylene glycol CASRN 111466 | Organic Glycols | Insufficient data | 1997 | Insufficient data | 1997 |
| Diisopropanolamine DIPA CASRN 110974 | Organic | 2 000 | 2006 | Insufficient data | 2006 |
| Dimethoate CASRN 60515 | Organic Pesticides Organophosphorus compounds | Insufficient data | 1993 | 3 | 1993 |
| Dinoseb CASRN 88857 | Organic Pesticides | 16 | 1992 | 150 | 1992 |
| Endrin | Organic Pesticides Organochlorine compounds | <i>No data</i> | <i>No data</i> | 0.2 | 1987 |
| Ethylbenzene CASRN 100414 | Organic Monocyclic aromatic compounds | Insufficient data | 1996 | 2.4 | 1996 |
| Ethylene glycol CASRN 107211 | Organic Glycols | Insufficient data | 1997 | Insufficient data | 1997 |
| Fluoride | Inorganic | 1000 | 1987 | Variable | 1987 |
| Glyphosate CASRN 1071836 | Organic Pesticides Organophosphorus compounds | <i>No data</i> | <i>No data</i> | 280 | 1989 |
| Heptachlor Heptachlor epoxide | Organic Pesticides Organochlorine compounds | <i>No data</i> | <i>No data</i> | 3 | 1987 |
| Hexachlorobenzene | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | 0.52 | 1991 |
| Hexachlorocyclohexane Lindane | Organic Pesticides Organochlorine compounds | <i>No data</i> | <i>No data</i> | 4 | 1987 |

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|---|---|-------------------|---------|-------------------|---------|
| Iron | Inorganic Metals | 5000 | 1987 | No data | No data |
| Lead | Inorganic Metals | 200 | 1987 | 100 | 1987 |
| Linuron CASRN 41205214 | Organic Pesticides | 0.071 | 1995 | Insufficient data | 1995 |
| Lithium | Inorganic Metals | 2500 | 1987 | No data | No data |
| Manganese | Inorganic Metals | 200 | 1987 | No data | No data |
| Mercury CASRN 7439976 | Inorganic Metals | No data | No data | 3 | 1987 |
| Methylchlorophenoxyacetic acid (4-Chloro-2-methyl phenoxy acetic acid; 2-Methyl-4-chloro phenoxy acetic acid) MCPA CASRN 94746 | Organic Pesticides | 0.025 | 1995 | 25 | 1995 |
| Metolachlor CASRN 51218452 | Organic Pesticides Organochlorine compounds | 28 | 1991 | 50 | 1991 |
| Metribuzin CASRN 21087649 | Organic Pesticides Triazine compounds | 0.5 | 1990 | 80 | 1990 |
| Molybdenum | Inorganic Metals | Narrative | 1987 | 500 | 1987 |
| Monobromomethane Methyl bromide | Organic Halogenated aliphatic compounds Halogenated methanes | Insufficient data | 1992 | Insufficient data | 1992 |
| Monochlorobenzene CASRN 108907 | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| Monochloromethane Methyl chloride | Organic Halogenated aliphatic compounds Halogenated methanes | Insufficient data | 1992 | Insufficient data | 1992 |

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|---|--|-----------------------------|----------------|---|----------------|
| Nickel | Inorganic Metals | 200 | 1987 | 1000 | 1987 |
| Nitrate + Nitrite | Inorganic Inorganic nitrogen compounds | <i>No data</i> | <i>No data</i> | 100 000 NO ₃ +NO ₂ -N | 1987 |
| Nitrite | Inorganic Inorganic nitrogen compounds | <i>No data</i> | <i>No data</i> | 10 000 NO ₂ -N | 1987 |
| Pentachlorobenzene CASRN 608935 | Organic Monocyclic aromatic compounds Chlorinated benzenes | Insufficient data | 1997 | Insufficient data | 1997 |
| Phenols (mono- & dihydric) CASRN 108952 | Organic Aromatic hydroxy compounds | <i>No data</i> | <i>No data</i> | 2 | 1987 |
| Phenoxy herbicides 2,4 D; 2,4-Dichlorophenoxyacetic acid | Organic Pesticides | <i>No data</i> | <i>No data</i> | 100 | 1987 |
| Picloram CASRN 1918021 | Organic Pesticides | Insufficient data | 1990 | 190 | 1990 |
| Propylene glycol CASRN 57556 | Organic Glycols | Insufficient data | 1997 | Insufficient data | 1997 |
| Selenium | Inorganic Metals | Variable | 1987 | 50 | 1987 |
| Simazine CASRN 122349 | Organic Pesticides Triazine compounds | 0.5 | 1991 | 10 | 1991 |
| Sodium adsorption ratio SAR | | <i>No data</i> | <i>No data</i> | <i>No data</i> | <i>No data</i> |
| | | Concentration (µg/L) | Date | Concentration (µg/L) | Date |
| Chemical name | Chemical groups | | | | |
| Sulfolane Bondelane CASRN 126330 | Organic Organic sulphur compound | 500 | 2005 | Insufficient data | 2005 |
| Sulphate | Inorganic Inorganic sulphur compounds | <i>No data</i> | <i>No data</i> | 1 000 000 | 1987 |

| | | | | | |
|--|--|---|----------------|-----------|------|
| Tebuthiuron CASRN 34014181 | Organic Pesticides | 0.27 (cereals, tame hays, and pastures) | 1995 | 130 | 1995 |
| Tetrachloromethane Carbon tetrachloride CASRN 56235 | Organic Halogenated aliphatic compounds Halogenated methanes | Insufficient data | 1992 | 5 | 1992 |
| Toluene CASRN 108883 | Organic Monocyclic aromatic compounds | Insufficient data | 1996 | 24 | 1996 |
| Total dissolved solids (salinity) TDS | Physical Turbidity, clarity and suspended solids | Variable | 1987 | 3 000 000 | 1987 |
| Toxaphene | Organic Pesticides Organochlorine compounds | <i>No data</i> | <i>No data</i> | 5 | 1987 |
| Triallate CASRN 2303175 | Organic Pesticides Carbamate pesticides | Insufficient data | 1992 | 230 | 1992 |
| Tribromomethane Bromoform | Organic Halogenated aliphatic compounds Halogenated methanes | Insufficient data | 1992 | 100 | 1992 |
| Tributyltin | Organic Organotin compounds | Insufficient data | 1992 | 250 | 1992 |
| Trichloromethane Chloroform CASRN 67663 | Organic Halogenated aliphatic compounds Halogenated methanes | Insufficient data | 1992 | 100 | 1992 |
| Tricyclohexyltin | Organic Organotin compounds | Insufficient data | 1992 | 250 | 1992 |
| Trifluralin CASRN 1582098 | Organic Pesticides Dinitroaniline pesticides | Insufficient data | 1992 | 45 | 1992 |
| Triphenyltin | Organic Organotin compounds | Insufficient data | 1992 | 820 | 1992 |
| Uranium CASRN 7440-61-1 | Inorganic Metals | 10 | 1987 | 200 | 1987 |
| Vanadium | Inorganic Metals | 100 | 1987 | 100 | 1987 |

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|------|------------------|----------|------|--------|------|
| Zinc | Inorganic Metals | Equation | 1987 | 50 000 | 1987 |
|------|------------------|----------|------|--------|------|

| Chemical name | | Chemical groups |
|--------------------------------|--|-----------------|
| Sodium adsorption ratio SAR | | |