

Table 1A - Nova Scotia Tier I Environmental Quality Standards (EQS) for Soil - All Land Uses; Potable Groundwater Condition (mg/kg)

| Land Use | Agricultural | | Residential / Parkland | | Commercial | | Industrial | |
|--|--------------|--------|------------------------|--------|------------|--------|------------|---------|
| | Fine | Coarse | Fine | Coarse | Fine | Coarse | Fine | Coarse |
| Inorganic Parameters | | | | | | | | |
| Aluminum | 15,400 | 15,400 | 15,400 | 15,400 | 15,400 | 15,400 | 220,000 | 220,000 |
| Antimony | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 63 | 63 |
| Arsenic | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Barium | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 |
| Beryllium | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Boron (Total) | 120 | 120 | 4300 | 4300 | 4300 | 4300 | 24,000 | 24,000 |
| Boron (mg/L in saturated paste extract) | 3.3 | 3.3 | 65 | 118 | 65 | 118 | 65 | 118 |
| Cadmium | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Chromium (hexavalent) | 0.4 | 0.4 | 60 | 60 | 60 | 60 | 60 | 60 |
| Chromium (total) | 64 | 64 | 220 | 220 | 630 | 630 | 6700 | 6700 |
| Cobalt | 20 | 20 | 22 | 22 | 22 | 22 | 25 | 25 |
| Copper | 63 | 63 | 250 | 250 | 250 | 250 | 250 | 250 |
| Cyanide | 0.9 | 0.9 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| Iron | 11,000 | 11,000 | 11,000 | 11,000 | 11,000 | 11,000 | 164,000 | 164,000 |
| Lead | 70 | 70 | 120 | 120 | 120 | 120 | 120 | 120 |
| Manganese | 360 | 360 | 360 | 360 | 360 | 360 | 2000 | 2000 |
| Mercury (total) | 6.6 | 6.6 | 6.6 | 6.6 | 24 | 24 | 99 | 99 |
| Molybdenum | 4 | 4 | 15 | 15 | 15 | 15 | 15 | 15 |
| Nickel | 45 | 45 | 70 | 70 | 70 | 70 | 70 | 70 |
| Selenium | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Silver | 20 | 20 | 77 | 77 | 77 | 77 | 490 | 490 |
| Strontium | 9400 | 9400 | 9400 | 9400 | 9400 | 9400 | 140,000 | 140,000 |
| Thallium | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Tin | 5 | 5 | 9400 | 9400 | 9400 | 9400 | 140,000 | 140,000 |
| Uranium | 23 | 23 | 23 | 23 | 30 | 30 | 30 | 30 |
| Vanadium | 18 | 18 | 39 | 39 | 39 | 39 | 100 | 100 |
| Zinc | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| General Chemistry Parameters | | | | | | | | |
| Chloride | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Sodium | 200 | 200 | 15,000 | 15,000 | 15,000 | 15,000 | 15,000 | 15,000 |
| Petroleum Hydrocarbons (PHC) Parameters | | | | | | | | |
| Benzene | 0.094 | 0.021 | 0.094 | 0.021 | 0.094 | 0.042 | 0.094 | 0.042 |
| Toluene | 0.74 | 0.35 | 0.74 | 0.35 | 0.74 | 0.35 | 0.74 | 0.35 |
| Ethylbenzene | 0.089 | 0.043 | 0.089 | 0.043 | 0.089 | 0.043 | 0.089 | 0.043 |
| Xylene | 1.5 | 0.73 | 1.5 | 0.73 | 1.5 | 0.73 | 1.5 | 0.73 |
| Modified TPH (Gas) | 210 | 75 | 1900 | 75 | 1900 | 940 | 1900 | 940 |
| Modified TPH (Fuel) | 150 | 150 | 4700 | 320 | 4700 | 1800 | 4700 | 1800 |
| Modified TPH (Lube) | 1,300 | 300 | 10,000 | 1800 | 10,000 | 10,000 | 10,000 | 10,000 |
| MTBE | 0.044 | 0.046 | 0.044 | 0.046 | 0.044 | 0.062 | 0.044 | 0.062 |
| Polycyclic Aromatic Hydrocarbons (PAH) Parameters | | | | | | | | |
| <i>Non-Carcinogenic PAH Compounds</i> | | | | | | | | |
| Naphthalene | 0.75 | 0.6 | 28 | 2.2 | 28 | 25 | 28 | 25 |
| 1 - Methyl-naphthalene | 42 | 30 | 42 | 30 | 42 | 30 | 42 | 30 |
| 2 - Methyl-naphthalene | 42 | 30 | 42 | 30 | 42 | 30 | 42 | 30 |
| Acenaphthene | 21.5 | 21.5 | 5300 | 3900 | 8000 | 8000 | 75,000 | 43,000 |
| Acenaphthylene | 32 | 4.5 | 32 | 4.5 | 32 | 23 | 32 | 23 |
| Anthracene | 3 | 3 | 24,000 | 24,000 | 37,000 | 37,000 | 300,000 | 300,000 |
| Fluoranthene | 15.4 | 15.4 | 3500 | 3500 | 5300 | 5300 | 50,000 | 50,000 |
| Fluorene | 15.4 | 15.4 | 2700 | 2700 | 4100 | 4100 | 39,000 | 39,000 |

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| Land Use | Agricultural | | Residential / Parkland | | Commercial | | Industrial | |
|---|------------------|------------------|------------------------|------------------|------------------|------------------|------------------|------------------|
| | Fine | Coarse | Fine | Coarse | Fine | Coarse | Fine | Coarse |
| Phenanthrene | 7.8 | 6.2 | 24 | 17 | 24 | 17 | 24 | 17 |
| Pyrene | 7.7 | 7.7 | 2100 | 2100 | 3200 | 3200 | 30,000 | 30,000 |
| Carcinogenic PAH Compounds | | | | | | | | |
| BaP Total Potency Equivalents | 5.3 and IACR<1.0 | 5.3 and IACR<1.0 | 5.3 and IACR<1.0 | 5.3 and IACR<1.0 | 5.3 and IACR<1.0 | 5.3 and IACR<1.0 | 5.3 and IACR<1.0 | 5.3 and IACR<1.0 |
| Benz[a]anthracene | 0.63 | 0.5 | 6.4 | 12 | 6.4 | 12 | 6.4 | 12 |
| Benzo[a]pyrene | 0.6 | 0.6 | 7 | 14 | 7 | 14 | 7 | 14 |
| Benzo[b,j,k]fluoranthene isomers | 6.2 | 6.2 | 0.64 | 1.2 | 0.64 | 1.2 | 0.64 | 1.2 |
| Benzo[g,h,i]perylene | 8.3 | 6.6 | 130 | 250 | 130 | 250 | 130 | 250 |
| Chrysene | 6.2 | 6.2 | 40 | 78 | 40 | 78 | 40 | 78 |
| Dibenz[a,h]anthracene | 4.4 | 8.8 | 4.4 | 8.8 | 4.4 | 8.8 | 4.4 | 8.8 |
| Indeno[1,2,3-c,d]pyrene | 0.48 | 0.38 | 51 | 98 | 51 | 98 | 51 | 98 |
| Volatile Organic Compound (VOC) Parameters | | | | | | | | |
| Bromodichloromethane | 1.9 | 1.5 | 1.9 | 1.5 | 1.9 | 1.5 | 1.9 | 1.5 |
| Bromoform | 2.6 | 2.3 | 2.6 | 2.3 | 2.9 | 2.3 | 2.9 | 2.3 |
| Bromomethane* | 0.0034 | 0.00034 | 0.0034 | 0.00034 | 0.012 | 0.0016 | 0.012 | 0.0016 |
| Carbon Tetrachloride* (Tetrachloromethane) | 0.013 | 0.00057 | 0.013 | 0.00057 | 0.037 | 0.0069 | 0.037 | 0.0069 |
| Chlorobenzene | 0.39 | 0.018 | 0.39 | 0.018 | 0.61 | 0.22 | 0.61 | 0.22 |
| Chloroethane | - | - | - | - | - | - | - | - |
| Chloroform | 0.22 | 0.011 | 0.22 | 0.011 | 0.53 | 0.14 | 0.53 | 0.14 |
| Chloromethane | - | - | - | - | - | - | - | - |
| Dibromochloromethane | 0.91 | 0.27 | 0.91 | 0.27 | 0.91 | 1.5 | 0.91 | 1.5 |
| 1,2-Dichlorobenzene | 0.097 | 0.18 | 0.097 | 0.18 | 0.097 | 0.18 | 0.097 | 0.18 |
| 1,3-Dichlorobenzene | 6 | 4.8 | 34 | 24 | 34 | 24 | 34 | 24 |
| 1,4-Dichlorobenzene | 0.051 | 0.098 | 0.051 | 0.098 | 0.051 | 0.098 | 0.051 | 0.098 |
| 1,1-Dichloroethane | 0.6 | 0.47 | 0.6 | 0.47 | 0.6 | 0.47 | 0.6 | 0.47 |
| 1,2-Dichloroethane* | 0.025 | 0.0027 | 0.025 | 0.0027 | 0.025 | 0.033 | 0.025 | 0.033 |
| 1,1-Dichloroethylene | 0.38 | 0.039 | 0.38 | 0.039 | 0.38 | 0.17 | 0.38 | 0.17 |
| cis-1,2-Dichloroethylene* | 0.52 | 0.019 | 0.52 | 0.019 | 1.0 | 0.24 | 1.0 | 0.24 |
| trans-1,2-Dichloroethylene* | 0.56 | 0.02 | 0.56 | 0.02 | 1.4 | 0.25 | 1.4 | 0.25 |
| 1,2-Dichloropropane | 0.085 | 0.01 | 0.085 | 0.01 | 0.68 | 0.16 | 0.68 | 0.16 |
| 1,3-Dichloropropene | 0.81 | 0.27 | 0.81 | 0.27 | 0.81 | 0.59 | 0.81 | 0.59 |
| Ethylene Dibromide* | 0.0054 | 0.0048 | 0.0054 | 0.0048 | 0.0062 | 0.0048 | 0.0062 | 0.0048 |
| Methylene Chloride (Dichloromethane) | 0.21 | 0.32 | 0.21 | 0.32 | 0.21 | 0.32 | 0.21 | 0.32 |
| Styrene | 19 | 16 | 19 | 16 | 66 | 42 | 66 | 42 |
| 1,1,1,2-Tetrachloroethane | 0.2 | 0.15 | 0.2 | 0.15 | 0.2 | 0.15 | 0.2 | 0.15 |
| 1,1,2,2-Tetrachloroethane | 0.096 | 0.045 | 0.096 | 0.045 | 0.19 | 0.14 | 0.19 | 0.14 |
| Tetrachloroethylene* | 0.39 | 0.016 | 0.39 | 0.016 | 0.57 | 0.2 | 0.57 | 0.2 |
| 1,1,1-Trichloroethane | 3.4 | 0.38 | 3.4 | 0.38 | 27 | 6.1 | 27 | 6.1 |
| 1,1,2-Trichloroethane | 0.18 | 0.3 | 0.18 | 0.3 | 0.73 | 0.42 | 0.73 | 0.42 |
| Trichloroethylene* | 0.02 | 0.00081 | 0.02 | 0.00081 | 0.13 | 0.01 | 0.13 | 0.01 |
| Vinyl Chloride* | 0.0087 | 0.00031 | 0.0087 | 0.00031 | 0.06 | 0.0079 | 0.06 | 0.016 |
| Pesticides | | | | | | | | |
| Aldicarb | 0.041 | 0.065 | 0.041 | 0.065 | 0.041 | 0.065 | 0.041 | 0.065 |
| Aldrin | 0.0024 | 0.0024 | 3.4 | 3.4 | 5.1 | 5.1 | 5.9 | 11 |
| Atrazine | 0.1 | 0.17 | 0.1 | 0.19 | 0.1 | 0.19 | 0.1 | 0.19 |
| Azinphos-methyl | 0.41 | 0.75 | 0.41 | 0.75 | 0.41 | 0.75 | 0.41 | 0.75 |
| Bendiocarb | 0.14 | 0.21 | 0.14 | 0.21 | 0.14 | 0.21 | 0.14 | 0.21 |
| Bromoxynil | 0.18 | 0.35 | 0.18 | 0.35 | 0.18 | 0.35 | 0.18 | 0.35 |
| Carbaryl | 1.9 | 3.6 | 1.9 | 3.6 | 1.9 | 3.6 | 1.9 | 3.6 |

Table 1A - Nova Scotia Tier I Environmental Quality Standards (EQS) for Soil - All Land Uses; Potable Groundwater Condition (mg/kg)

| Land Use | Agricultural | | Residential / Parkland | | Commercial | | Industrial | |
|--------------------------------------|--------------|----------|------------------------|----------|------------|----------|------------|----------|
| | Fine | Coarse | Fine | Coarse | Fine | Coarse | Fine | Coarse |
| Carbofuran | 0.68 | 1.2 | 0.68 | 1.2 | 0.68 | 1.2 | 0.68 | 1.2 |
| Chlorothalonil | 27 | 53 | 27 | 53 | 27 | 53 | 27 | 53 |
| Chlorpyrifos | 49 | 95 | 49 | 95 | 49 | 95 | 49 | 95 |
| Cyanazine | 0.12 | 0.21 | 0.12 | 0.21 | 0.12 | 0.21 | 0.12 | 0.21 |
| 2,4-D | 0.43 | 0.69 | 0.43 | 0.67 | 0.43 | 0.67 | 0.43 | 0.67 |
| DDT | 0.7 | 0.7 | 220 | 220 | 340 | 340 | 1600 | 1600 |
| Diazinon | 2.2 | 4.2 | 2.2 | 4.2 | 2.2 | 4.2 | 2.2 | 4.2 |
| Dicamba | 0.5 | 0.79 | 0.5 | 0.79 | 0.5 | 0.79 | 0.5 | 0.79 |
| Dichlorofop-methyl | 22 | 22 | 22 | 22 | 34 | 34 | 160 | 160 |
| Dieldrin | 0.00096 | 0.00096 | 0.59 | 1.1 | 0.59 | 1.1 | 0.59 | 1.1 |
| Dimethoate | 0.077 | 0.12 | 0.077 | 0.12 | 0.077 | 0.12 | 0.077 | 0.12 |
| Dinoseb | 2.8 | 5.5 | 2.8 | 5.5 | 2.8 | 5.5 | 2.8 | 5.5 |
| Diquat | 11 | 21 | 11 | 21 | 11 | 21 | 11 | 21 |
| Diuron | 1.9 | 3.5 | 1.9 | 3.5 | 1.9 | 3.5 | 1.9 | 3.5 |
| Endosulfan | 0.023 | 0.023 | 99 | 190 | 99 | 190 | 99 | 190 |
| Endrin | 0.0011 | 0.0011 | 2.4 | 4.7 | 2.4 | 4.7 | 2.4 | 4.7 |
| Glyphosate | 0.95 | 1.4 | 0.95 | 1.4 | 0.95 | 1.4 | 0.95 | 1.4 |
| Heptachlor | 0.039 | 0.012 | 0.039 | 0.012 | 0.039 | 0.076 | 0.039 | 0.076 |
| Lindane | 0.31 | 0.6 | 0.31 | 0.6 | 0.31 | 0.6 | 0.31 | 0.6 |
| Linuron | 0.56 | 1.1 | 0.56 | 1.1 | 0.56 | 1.1 | 0.56 | 1.1 |
| Malathion | 0.82 | 1.3 | 0.82 | 1.3 | 0.82 | 1.3 | 0.82 | 1.3 |
| MCPA | 0.42 | 0.66 | 0.42 | 0.66 | 0.42 | 0.66 | 0.42 | 0.66 |
| Methoxychlor | 0.13 | 0.13 | 3500 | 3500 | 5300 | 5300 | 50,000 | 50,000 |
| Metolachlor | 1.3 | 2.4 | 1.3 | 2.4 | 1.3 | 2.4 | 1.3 | 2.4 |
| Metribuzin | 7.8 | 15 | 7.8 | 15 | 7.8 | 15 | 7.8 | 15 |
| Paraquat | 1.1 | 2.2 | 1.1 | 2.2 | 1.1 | 2.2 | 1.1 | 2.2 |
| Parathion | 7.2 | 14 | 7.2 | 14 | 7.2 | 14 | 7.2 | 14 |
| Phorate | 0.075 | 0.14 | 0.075 | 0.14 | 0.075 | 0.14 | 0.075 | 0.14 |
| Picloram | 0.64 | 0.94 | 0.64 | 0.94 | 0.64 | 0.94 | 0.64 | 0.94 |
| Simazine | 0.14 | 0.25 | 0.14 | 0.25 | 0.14 | 0.25 | 0.14 | 0.25 |
| Tebuthiuron | 0.046 | 0.046 | 2.5 | 3.7 | 2.5 | 3.7 | 2.5 | 3.7 |
| Terbufos | 0.08 | 0.015 | 0.08 | 0.15 | 0.08 | 0.15 | 0.08 | 0.15 |
| Toxaphene | 3.3 | 4.8 | 3.3 | 4.8 | 3.3 | 6.3 | 3.3 | 6.3 |
| Triallate | 16 | 31 | 16 | 31 | 16 | 31 | 16 | 31 |
| Trifluralin | 110 | 110 | 110 | 110 | 160 | 160 | 770 | 770 |
| PFAS Substances | | | | | | | | |
| Perfluorooctanoic acid (PFOA) [3] | 0.7 | 0.7 | 0.7 | 0.7 | 1.05 | 1.05 | 9.94 | 9.94 |
| Perfluorooctane sulfonate (PFOS) [3] | 0.01 | 0.01 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| Perfluorobutanoate (PFBA) | 114 | 114 | 114 | 114 | 173 | 173 | 1630 | 1630 |
| Perfluorobutane sulfonate (PFBS) | 61 | 61 | 61 | 61 | 92 | 92 | 872 | 872 |
| Perfluorohexanesulfonate (PFHxS) | 2.3 | 2.3 | 2.3 | 2.3 | 3.5 | 3.5 | 33 | 33 |
| Perfluoropentanoate (PFPeA) | 0.8 | 0.8 | 0.8 | 0.8 | 1.21 | 1.21 | 11.41 | 11.41 |
| Perfluorohexanoate (PFHxA) | 0.8 | 0.8 | 0.8 | 0.8 | 1.21 | 1.21 | 11.41 | 11.41 |
| Perfluoroheptanoate (PFHpA) | 0.8 | 0.8 | 0.8 | 0.8 | 1.21 | 1.21 | 11.41 | 11.41 |
| Perfluorononanoate (PFNA) | 0.08 | 0.08 | 0.08 | 0.08 | 0.13 | 0.13 | 1.2 | 1.2 |
| Other Parameters | | | | | | | | |
| Polychlorinated Biphenyl (Total PCB) | 1.3 | 1.3 | 22 | 22 | 33 | 33 | 160 | 160 |
| Dioxins and Furans (TEQ) (mg TEQ/kg) | 0.000004 | 0.000004 | 0.000004 | 0.000004 | 0.000004 | 0.000004 | 0.000004 | 0.000004 |
| Pentachlorophenol (PCP) | 0.013 | 0.013 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| Organotins - Tributyltin | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 50 | 50 |

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| Land Use | Agricultural | | Residential / Parkland | | Commercial | | Industrial | |
|------------------|--------------|--------|------------------------|--------|------------|--------|------------|--------|
| Parameter | Fine | Coarse | Fine | Coarse | Fine | Coarse | Fine | Coarse |
| Ethylene Glycol | 60 | 68 | 60 | 68 | 60 | 68 | 60 | 68 |
| Propylene Glycol | - | - | - | - | - | - | - | - |
| Phenol | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |

Notes:

[1] All values are in units of mg/kg unless otherwise noted.

[2] "-" indicates no guideline available; In the Tier I EQS soil tables, the Upper Concentration Limit (UCL) of 10,000 mg/kg in soil has been applied to any petroleum hydrocarbon calculated concentration that is >RES (residual concentration) or exceeds 10,000 mg/kg, following Atlantic RBCA guidance; IACR means the CCME Index of Additive Cancer Risk for carcinogenic PAHs.

[3] When PFOS and PFOA co-occur in soil or groundwater, it is recommended that both chemicals be considered together when comparing to screening values. Refer to Health Canada's "Summary Table: Health Canada Draft Guidelines, Screening Values and Toxicological Reference Values (TRVs) for Perfluoroalkyl Substances (PFAS). May, 2019." for specific guidance on calculating PFOS/PFOA ratios and hazard indices.

* Indicates the derived guideline value is below currently achievable analytical RDLs (the value is not reliably attainable with current analytical methods). For sites where VOCs are identified as a contaminant of potential concern and where the indoor air guidelines are not achievable for the VOC parameters (parent and associated daughter products), soil vapour or subslab vapour testing is required to determine potential exposures. In any such testing program, the site professional must consult with and abide by the guidance provided in ARBCA (2021), with respect to CVOCs, and the Atlantic RBCA Guidance for Vapour Intrusion Assessments posted at: www.atlanticrbca.com/technical-documents/.