

SCHEDULE 3.4

[en. B.C. Reg. 13/2019, s. 12.]

**SCHEDULE 3.4
GENERIC NUMERICAL SEDIMENT STANDARDS¹**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Freshwater Sediment² Standard for Sensitive Use⁴	Freshwater Sediment² Standard for Typical Use⁵	Marine and Estuarine Sediment³ Standard for Sensitive Use⁴	Marine and Estuarine Sediment³ Standard for Typical Use⁵
acenaphthene	83-32-9	0.055	0.11	0.055	0.11
acenaphthylene	208-96-6	0.08	0.15	0.079	0.15
anthracene	120-12-7	0.15	0.29	0.15	0.29
arsenic	7440-38-2	11.0	20.0	26.0	50.0 ⁶
benz(a)anthracene	56-55-3	0.24	0.46	0.43	0.83
benzo(a)pyrene	50-32-8	0.48	0.94	0.47	0.92
cadmium	7440-43-9	2.2	4.2	2.6	5.0
chlordane (cis + trans)	5103-71-9 & 5103-74-2	0.0055	0.011	0.003	0.0057
chromium	7440-47-3	56.0 ⁶	110.0	99.0	190.0
chrysene	218-09-8	0.53	1.0	0.52	1.0
copper	7440-50-8	120.0	240.0	67.0	130.0
dibenz(a,h)anthracene	53-70-3	0.084	0.16	0.084	0.16
dichlorodiphenylchloroethane (2,4' + 4,4' isomers) [DDD]	53-19-0 & 72-54-8	0.0053	0.01	0.0048	0.0094
dichlorodiphenylchloroethylene (2,4' + 4,4' isomers) [DDE]	3424-82-6 & 72-55-9	0.0042	0.0081	0.23	0.45
dichlorodiphenyltrichloroethane (2,4' + 4,4' isomers) [DDT]	789-02-6 & 50-29-3	0.003	0.0057	0.003	0.0057
dieldrin	60-57-1	0.0041	0.008	0.0027	0.0052
endrin	72-20-8	0.039	0.075 ⁶	0.039	0.075 ⁶
fluoranthene	206-44-0	1.5	2.8	0.93	1.8
fluorene	86-73-7	0.089	0.17	0.089	0.17
heptachlor and heptachlor epoxide	76-44-8 & 1024-57-3	0.0017	0.0033 ⁶	0.0017	0.0033 ⁶
hexachlorocyclohexane, gamma	58-89-9	0.00086 ⁶	0.0017 ⁶	0.00061	0.0012 ⁶
lead	7439-92-1	57.0	110.0	69.0	130.0
methylnaphthalene, 2-	91-57-6	0.12	0.24	0.12	0.24

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Freshwater Sediment ² Standard for Sensitive Use ⁴	Freshwater Sediment ² Standard for Typical Use ⁵	Marine and Estuarine Sediment ³ Standard for Sensitive Use ⁴	Marine and Estuarine Sediment ³ Standard for Typical Use ⁵
mercury	7439-97-6	0.3	0.58	0.43	0.84
naphthalene	91-20-3	0.24	0.47	0.24	0.47
pentachlorophenol [PCP]	87-86-5	0.4 ⁷	0.8 ⁷	0.36 ⁸	0.69 ⁸
phenanthrene	85-01-8	0.32	0.62	0.34	0.65
polycyclic aromatic hydrocarbons, total ⁹ [PAHs]	NA ¹⁰	10.0	20.0	10.0	20.0
polychlorinated biphenyls, total ¹¹ [PCBs]	1336-36-3	0.17	0.33	0.12	0.23
polychlorinated dioxins and furans ¹² [PCDDs and PCDFs]	1746-01-6	0.00013 ⁶	0.00026 ⁶	0.00013	0.00026 ⁶
pyrene	129-00-0	0.54	1.1	0.87	1.7
zinc	7440-66-6	200.0	380.0	170.0	330.0

Notes

- All values in ug/g dry weight (dwt) unless otherwise stated. Substance must be analysed using methods specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time, a director's protocol or alternative methods acceptable to a director.
- Standards are specific to the protection of freshwater life. It is the responsibility of the responsible person for the site to ensure that use of the standards of this schedule does not constitute a significant risk or hazard to human health.
- Standards are specific to the protection of marine and estuarine aquatic life. It is the responsibility of the responsible person for the site to ensure that the use of the standards of this schedule does not constitute a significant risk or hazard to human health.
- Sensitive sediment use means the use of a site containing sediment as habitat for sensitive components of freshwater, marine or estuarine aquatic ecosystems. Consult a director for further advice.
- Typical sediment use means the use of a site containing sediment for a use that is not a sensitive sediment use. Consult a director for further advice.
- Denotes a sediment standard which is considered less reliable or that could not be fully evaluated.
- Standard has been set equal to the 1994 State of New York, Department of Environmental Conservation criterion for the substance.
- Standard has been set equal to the 1991 Washington State, Department of Ecology criterion for the substance.
- PAHs, total in sediment includes:
acenaphthene,
acenaphthylene,
anthracene,