Table 4A - Nova Scotia Tier I Environmental Quality Standards (EQS) for Groundwater - All Land Uses; Potable Groundwater Condition (µg/L)

Land Use	Agricultural		Residential / Parkland		Commercial		Industrial	
Parameter	**Fine**	**Coarse**	**Fine**	**Coarse**	**Fine**	**Coarse**	**Fine**	**Coarse**
Inorganic Parameters								
Aluminum	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*
Antimony	6	6	6	6	6	6	6	6
Arsenic	10	10	10	10	10	10	10	10
Barium	1000	1000	1000	1000	1000	1000	1000	1000
Beryllium	4	4	4	4	4	4	4	4
Boron	5000	5000	5000	5000	5000	5000	5000	5000
Cadmium	5	5	5	5	5	5	5	5
Chromium (hexavalent)	50	50	50	50	50	50	50	50
Chromium (total)	50	50	50	50	50	50	50	50
Cobalt	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Copper	2000	2000	2000	2000	2000	2000	2000	2000
Cyanide	200	200	200	200	200	200	200	200
Iron	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*
Lead	5	5	5	5	5	5	5	5
Manganese	120	120	120	120	120	120	120	120
Mercury (total)	1	1	1	1	1	1	1	1
Molybdenum	70	70	70	70	70	70	70	70
Nickel	100	100	100	100	100	100	100	100
Selenium	50	50	50	50	50	50	50	50
Silver	-	-	-	-	-	-	-	-
Strontium	2400	2400	NGR	NGR	2400	2400	2400	2400
Thallium	2	2	2	2	2	2	2	2
Tin	2400	2400	2400	2400	2400	2400	2400	2400
Uranium	20	20	20	20	20	20	20	20
Vanadium	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Zinc	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*
General Chemistry Parameters								
Chloride	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*
Sodium	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*
Petroleum Hydrocarbons (PHC) Parameters								
Benzene	5	5	5	5	5	5	5	5
Toluene	24	24	24	24	24	24	24	24
Ethylbenzene	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Xylene	20	20	20	20	20	20	20	20
Modified TPH (Gas)	4400	4400	4400	4400	4400	4400	4400	4400
Modified TPH (Fuel)	3200	3200	3200	3200	3200	3200	3200	3200
Modified TPH (Lube)	7800	7800	7800	7800	7800	7800	7800	7800
MTBE	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*	*NG*
Polycyclic Aromatic Hydrocarbons (PAH) Parameters								
Non-Carcinogenic PAH Compounds								
Naphthalene	470	470	470	470	470	470	470	470
1 - Methylnaphthalene	12	12	12	12	12	12	12	12

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2 - Methylnaphthalene	12	12	12	12	12	12	12	12
Acenaphthene	1400	1400	1400	1400	1400	1400	1400	1400
Acenaphthylene	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Anthracene	NGR	NGR	NGR	NGR	NGR	NGR	NGR	NGR
Fluoranthene	NGR	NGR	NGR	NGR	NGR	NGR	NGR	NGR
Fluorene	940	940	940	940	940	940	940	940
Phenanthrene	-	-	-	-	-	-	-	-
Pyrene	710	710	710	710	710	710	710	710
Carcinogenic PAH Compounds								
BaP Total Potency Equivalents (BaP TPE)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Benz[a]anthracene	-	-	-	-	-	-	-	-
Benzo[a]pyrene	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Benzo[b,j,k]fluoranthene isomers	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	-	-	-	-	-	-	-	-
Chrysene	-	-	-	-	-	-	-	-
Dibenz[a,h]anthracene	-	-	-	-	-	-	-	-
Indeno[1,2,3-c,d]pyrene	-	-	-	-	-	-	-	-
Volatile Organic Compound (VOC) Parameters								
Bromodichloromethane	100	100	100	100	100	100	100	100
Bromoform	100	100	100	100	100	100	100	100
Bromomethane	51	5.6	51	5.6	51	33	51	33
Carbon Tetrachloride (Tetrachloromethane)	2	0.57	2	0.57	2	2	2	2
Chlorobenzene	80	14	80	14	80	80	80	80
Chloroethane	-	-	-	-	-	-	-	-
Chloroform	80	30	80	30	80	80	80	80
Chloromethane	38	38	38	38	38	38	38	38
Dibromochloromethane	190	190	190	190	190	190	190	190
1,2-Dichlorobenzene	200	200	200	200	200	200	200	200
1,3-Dichlorobenzene	59	59	59	59	59	59	59	59
1,4-Dichlorobenzene	5	5	5	5	5	5	5	5
1,1-Dichloroethane	3100	320	3100	320	3700	3700	3700	3700
1,2-Dichloroethane	5	5	5	5	5	5	5	5
1,1-Dichloroethylene	14	14	14	14	14	14	14	14
cis-1,2-Dichloroethylene	70	70	70	70	70	70	70	70
trans-1,2-Dichloroethylene	100	100	100	100	100	100	100	100
1,2-Dichloropropane	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
1,3-Dichloropropene	6.7	5.2	6.7	5.2	6.7	6.7	6.7	6.7
Ethylene Dibromide	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Methylene Chloride (Dichloromethane)	50	50	50	50	50	50	50	50
Styrene	100	100	100	100	100	100	100	100
1,1,1,2- Tetrachloroethane	26	26	26	26	26	26	26	26
1,1,2,2-Tetrachloroethane	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Tetrachloroethylene	10	10	10	10	10	10	10	10

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Land Use	Agricultural		Residential / Parkland		Commercial		Industrial	
Parameter	**Fine**	**Coarse**	**Fine**	**Coarse**	**Fine**	**Coarse**	**Fine**	**Coarse**
1,1,1-Trichloroethane	6700	640	6700	640	10,000	10,000	10,000	10,000
1,1,2-Trichloroethane	12	12	12	12	12	12	12	12
Trichloroethylene	5	5	5	5	5	5	5	5
Vinyl Chloride	2	2	2	2	2	2	2	2
Pesticides								
Aldicarb	-	-	-	-	-	-	-	-
Aldrin	-	-	-	-	-	-	-	-
Atrazine	5	5	5	5	5	5	5	5
Azinphos-methyl	20	20	20	20	20	20	20	20
Bendiocarb	40	40	40	40	40	40	40	40
Bromoxynil	5	5	5	5	5	5	5	5
Carbaryl	90	90	90	90	90	90	90	90
Carbofuran	90	90	90	90	90	90	90	90
Chlorothalonil	140	140	140	140	140	140	140	140
Chlorpyrifos	90	90	90	90	90	90	90	90
Cyanazine	10	10	10	10	10	10	10	10
2,4-D	100	100	100	100	100	100	100	100
DDT	93	93	93	93	93	93	93	93
Diazinon	20	20	20	20	20	20	20	20
Dicamba	120	120	120	120	120	120	120	120
Dichlorfop-methyl	-	-	-	-	-	-	-	-
Dieldrin	-	-	-	-	-	-	-	-
Dimethoate	20	20	20	20	20	20	20	20
Dinoseb	-	-	-	-	-	-	-	-
Diquat	70	70	70	70	70	70	70	70
Diuron	150	150	150	150	150	150	150	150
Endosulfan	57	57	57	57	57	57	57	57
Endrin	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Glyphosate	280	280	280	280	280	280	280	280
Heptachlor	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
Lindane	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Linuron	19	19	19	19	19	19	19	19
Malathion	190	190	190	190	190	190	190	190
MCPA	100	100	100	100	100	100	100	100
Methoxychlor	-	-	-	-	-	-	-	-
Metolachlor	50	50	50	50	50	50	50	50
Metribuzin	80	80	80	80	80	80	80	80
Paraquat	10	10	10	10	10	10	10	10
Parathion	-	-	-	-	-	-	-	-
Phorate	2	2	2	2	2	2	2	2
Picloram	190	190	190	190	190	190	190	190
Simazine	10	10	10	10	10	10	10	10
Tebuthiuron	660	660	660	660	660	660	660	660

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Land Use	Agricultural		Residential / Parkland		Commercial		Industrial	
Parameter	**Fine**	**Coarse**	**Fine**	**Coarse**	**Fine**	**Coarse**	**Fine**	**Coarse**
Terbufos	1	1	1	1	1	1	1	1
Toxaphene	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Triallate	120	120	120	120	120	120	120	120
Trifluralin	45	45	45	45	45	45	45	45
PFAS Substances								
Perfluorooactanoic acid (PFOA) [4]	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Perfluorooctane sulfonate (PFOS) [4]	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Perfluorobutanoate (PFBA)	30	30	30	30	30	30	30	30
Perfluorobutane sulfonate (PFBS)	15	15	15	15	15	15	15	15
Perfluorohexanesulfonate (PFHxS)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Perfluoropentanoate (PFPeA)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Perfluorohexanoate (PFHxA)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Perfluoroheptanoate (PFHpA)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Perfluorononanoate (PFNA)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Other Parameters								
Polychlorinated Biphenyl (Total PCB)	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Dioxins and Furans (TEQ)	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012
Pentachlorophenol (PCP)	60	60	60	60	60	60	60	60
Organotins - Tributyltin	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Ethylene Glycol	31,000	31,000	31,000	31,000	31,000	31,000	31,000	31,000
Propylene Glycol	-	-	-	-	-	-	-	-
Phenol	570	570	570	570	570	570	570	570

Notes:

[1] All values in µg/L unless otherwise noted.

[2] "-" indicates no guideline available; "NGR" indicates no guideline required; For Tier I EQS, the Upper Concentration Limit (UCL) of 20,000 ug/L in water is applied to any petroleum hydrocarbon value that is >SOL (solubility) or exceeds 20,000 ug/L, following Atlantic RBCA guidance.

[3] For Tier I EQS, Health Canada AO and OG values are excluded from consideration; as such, "NG" (no guideline) is indicated.

[4] 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.