

Atlantic RBCA - Ecological Tier II Pathway-Specific Standards (PSS) for Soil - Residential / Parkland Land Use (mg/kg)

Land Use	Residential / Parkland				
Pathway	Soil Contact			Soil and Food Ingestion	
Parameter	Fine	Coarse	Reference	Fine/Coarse	Reference
Inorganic Parameters					
Aluminum	-	-		-	
Antimony	20	20	AEP, 2019	25	MOECC, 2011
Arsenic	17.1	17.1	CCME	51	MOECC, 2011
Barium	500	500	AEP, 2019	390	MOECC, 2011
Beryllium	5	5	AEP, 2019	13	MOECC, 2011
Boron (Total)	-	-		120	MOECC, 2011
Boron (mg/L in saturated paste extract)	3.3	3.3	AEP, 2019	-	
Cadmium	10	10	CCME	1.9	MOECC, 2011
Chromium (hexavalent)	0.4	0.4	AEP, 2019	160	MOECC, 2011
Chromium (total)	64	64	CCME	910	MOECC, 2011
Cobalt	20	20	AEP, 2019	180	MOECC, 2011
Copper	63	63	CCME	770	MOECC, 2011
Cyanide	0.9	0.9	CCME	0.11	MOECC, 2011
Iron	-	-		-	
Lead	300	300	CCME	32	MOECC, 2011
Manganese	-	-		-	
Mercury (total)	12	12	CCME	20	MOECC, 2011
Molybdenum	4	4	AEP, 2019	6.9	MOECC, 2011
Nickel	45	45	CCME	5000	MOECC, 2011
Selenium	1	1	CCME	2.4	MOECC, 2011
Silver	20	20	AEP, 2019	-	
Strontium	-	-		-	
Thallium	1.4	1.4	CCME	3.9	MOECC, 2011
Tin	5	5	AEP, 2019	-	
Uranium	500	500	CCME	33	MOECC, 2011
Vanadium	130	130	CCME	18	MOECC, 2011
Zinc	250	250	CCME	340	MOECC, 2011
General Chemistry Parameters					
Chloride	350	350	BC MOECCS Schedule 3.1	-	
Sodium	200	200	BC MOECCS Schedule 3.1	-	
Petroleum Hydrocarbons (PHC) Parameters					
Benzene	60	31	ARBCA, 2021	370	MOECC, 2011
Toluene	110	75	ARBCA, 2021	90	MOECC, 2011
Ethylbenzene	120	55	ARBCA, 2021	140	MOECC, 2011
Xylene	65	95	ARBCA, 2021	96	MOECC, 2011
Modified TPH (Gas)	210	210	ARBCA, 2021	-	
Modified TPH (Fuel)	150	150	ARBCA, 2021	-	
Modified TPH (Lube)	1300	300	ARBCA, 2021	-	
MTBE	31	25	MOECC, 2011	-	
Polycyclic Aromatic Hydrocarbons (PAH) Parameters					
Non-Carcinogenic PAH Compounds					
Naphthalene	0.75	0.6	MOECC, 2011	8.8	CCME
1 - Methyl-naphthalene	-	-		-	
2 - Methyl-naphthalene	-	-		-	
Acenaphthene	-	-		21.5	CCME
Acenaphthylene	-	-		-	
Anthracene	2.5	2.5	CCME	61.5	CCME
Fluoranthene	50	50	CCME	15.4	CCME

Atlantic RBCA - Ecological Tier II Pathway-Specific Standards (PSS) for Soil - Residential / Parkland Land Use (mg/kg)

Land Use	Residential / Parkland					
	Pathway	Soil Contact			Soil and Food Ingestion	
		Parameter	Fine	Coarse	Reference	Fine/Coarse
Fluorene		-	-		15.4	CCME
Phenanthrene		7.8	6.2	MOECC, 2011	43	CCME
Pyrene		-	-		7.7	CCME
Carcinogenic PAH Compounds						
BaP Total Potency Equivalents						
Benz[a]anthracene		0.63	0.5	MOECC, 2011	6.2	CCME
Benzo[a]pyrene		20	20	CCME	0.6	CCME
Benzo[b,j,k]fluoranthene isomers		9.5	7.6	MOECC, 2011	6.2	CCME
Benzo[g,h,i]perylene		8.3	6.6	MOECC, 2011	-	
Chrysene		8.8	7	MOECC, 2011	6.2	CCME
Dibenz[a,h]anthracene		-	-		-	
Indeno[1,2,3-c,d]pyrene		0.48	0.38	MOECC, 2011	-	
Volatile Organic Compound (VOC) Parameters						
Bromodichloromethane		-	-		-	
Bromoform		-	-		-	
Bromomethane		-	-		-	
Carbon Tetrachloride (Tetrachloromethane)		7.3	5.8	MOECC, 2011	7.6	MOECC, 2011
Chlorobenzene		7.5	6	MOECC, 2011	-	
Chloroethane		-	-		-	
Chloroform		43	34	MOECC, 2011	81	MOECC, 2011
Chloromethane		-	-		-	
Dibromochloromethane		-	-		-	
1,2-Dichlorobenzene		4.3	3.4	MOECC, 2011	-	
1,3-Dichlorobenzene		6	4.8	MOECC, 2011	-	
1,4-Dichlorobenzene		4.5	3.6	MOECC, 2011	-	
1,1-Dichloroethane		11	8.4	MOECC, 2011	-	
1,2-Dichloroethane		60	48	MOECC, 2011	29	MOECC, 2011
1,1-Dichloroethylene		63	50	MOECC, 2011	43	MOECC, 2011
cis-1,2-Dichloroethylene		-	-		84	MOECC, 2011
trans-1,2-Dichloroethylene		-	-		84	MOECC, 2011
1,2-Dichloropropane		31	25	MOECC, 2011	-	
1,3-Dichloropropene		31	25	MOECC, 2011	-	
Ethylene Dibromide		-	-		-	
Methylene Chloride (Dichloromethane)		0.98	0.78	MOECC, 2011	350	MOECC, 2011
Styrene		22	17	MOECC, 2011	-	
1,1,1,2-Tetrachloroethane		-	-		-	
1,1,2,2-Tetrachloroethane		-	-		-	
Tetrachloroethylene		15	15	BC MOECCS Schedule 3.1	4.5	MOECC, 2011
1,1,1-Trichloroethane		22	18	MOECC, 2011	820	MOECC, 2011
1,1,2-Trichloroethane		100	80	MOECC, 2011	-	
Trichloroethylene		3	3	AEP, 2019	8.1	MOECC, 2011
Vinyl Chloride		4.3	3.4	MOECC, 2011	12	MOECC, 2011
Pesticides						
Aldicarb		-	-		-	
Aldrin		0.055	0.044	MOECC, 2011	0.0024	MOECC, 2011
Atrazine		-	-		-	
Azinphos-methyl		-	-		-	
Bendiocarb		-	-		-	
Bromoxynil		-	-		-	
Carbaryl		-	-		-	

Atlantic RBCA - Ecological Tier II Pathway-Specific Standards (PSS) for Soil - Residential / Parkland Land Use (mg/kg)

Land Use	Residential / Parkland				
Pathway	Soil Contact			Soil and Food Ingestion	
Parameter	Fine	Coarse	Reference	Fine/Coarse	Reference
Carbofuran	-	-		-	
Chlorothalonil	-	-		-	
Chlorpyrifos	-	-		-	
Cyanazine	-	-		-	
2,4-D	-	-		-	
DDT	12	12	CCME	0.7	CCME
Diazinon	-	-		-	
Dicamba	-	-		-	
Dichlorfop-methyl	-	-		-	
Dieldrin	0.055	0.044	MOECC, 2011	0.0024	MOECC, 2011
Dimethoate	-	-		-	
Dinoseb	-	-		-	
Diquat	-	-		-	
Diuron	-	-		-	
Endosulfan	0.19	0.15	MOECC, 2011	0.023	MOECC, 2011
Endrin	0.024	0.019	MOECC, 2011	0.0011	MOECC, 2011
Glyphosate	-	-		-	
Heptachlor	0.25	0.2	MOECC, 2011	3.9	MOECC, 2011
Lindane	-	-		-	
Linuron	-	-		-	
Malathion	-	-		-	
MCPA	-	-		-	
Methoxychlor	-	-		0.13	MOECC, 2011
Metolachlor	-	-		-	
Metribuzin	-	-		-	
Paraquat	-	-		-	
Parathion	-	-		-	
Phorate	-	-		-	
Picloram	-	-		-	
Simazine	-	-		-	
Tebuthiuron	0.046	0.046	AEP, 2019	-	
Terbufos	-	-		-	
Toxaphene	-	-		-	
Triallate	-	-		-	
Trifluralin	-	-		-	
PFAS Substances					
Perfluorooctanoic acid (PFOA)	-	-		-	
Perfluorooctane sulfonate (PFOS)	11	11	ECCC, 2017	0.01	ECCC, 2017
Perfluorobutanoate (PFBA)	-	-		-	
Perfluorobutane sulfonate (PFBS)	-	-		-	
Perfluorohexanesulfonate (PFHxS)	-	-		-	
Perfluoropentanoate (PFPeA)	-	-		-	
Perfluorohexanoate (PFHxA)	-	-		-	
Perfluoroheptanoate (PFHpA)	-	-		-	
Perfluorononanoate (PFNA)	-	-		-	
Other Parameters					
Polychlorinated Biphenyls (Total PCB)	33	33	CCME	1.3	CCME
Dioxins and Furans (TEQ) (mg TEQ/kg)	0.001	0.001	BC MOECCS Schedule 3.1	0.000013	MOECC, 2011
Pentachlorophenol (PCP)	11	11	CCME	0.013	MOECC, 2011
Organotins - Tributyltin	-	-		-	

Atlantic RBCA - Ecological Tier II Pathway-Specific Standards (PSS) for Soil - Residential / Parkland Land Use (mg/kg)

Land Use	Residential / Parkland				
	Soil Contact			Soil and Food Ingestion	
Pathway					
Parameter	Fine	Coarse	Reference	Fine/Coarse	Reference
Ethylene Glycol	1100	1100	AEP, 2019	-	
Propylene Glycol	NGR	NGR	CCME	-	
Phenol	20	20	CCME	9.4	MOECC, 2011

Notes:

All values in mg/kg unless otherwise noted.

NGR=no guideline required. CCME applies the NGR designation to substances that were considered for ecological soil quality guideline derivation, but were deemed to not require such a guideline. This can be due to various reasons including substance physical-chemical, environmental fate and behaviour and toxicological properties, which may partially or collectively indicate a substance will not occur to any significant extent in soil and/or will not pose an ecological risk if it does occur in soil.

"-" indicates no ecological soil quality guideline was identified.