Alberta Ambient Air Quality Objectives

ppb = parts per billion ppm = parts per million ugr/ m³ = micrograms per cubic metre of air



<u>Substance</u>	<u>Average</u>	<u>Measure</u>	Basis (reason for level)	Effective Date
Ammonia	1 hour	2,000 ppb	Odour perception	1976, reviewed 2005
	•	•	•	
Benzene	1 hour	9.0 ppb	Hematological effects	1999, reviewed 2012
	Annual	0.9 ppb	Carcinogenic effects	
Carbon	1 hour	13 ppm	Oxygen carrying capacity of	1975
Monoxide	8 hour	5 ppm	blood	
	1	T		
Ethylbenzene	1 hour	460 ppb	Adopted from Texas	2005
	1			
Ethylene	1 hour	1,050 ppb	Crop yield	2004
	3 day	40 ppb	Crop yield	
	Annual mean	26 ppb	Conifers and perennials	
	1			
Hydrogen	1 hour	10 ppb	Odour perception	1975
Sulphide	24 hour	3 ppb		
Nitrogen	1 hour	159 ppb	Respiratory effects	1975, reviewed 2009
Dioxide	Annual	24 ppb	Vegetation	
	1	T		T
Ozone	1 hour daily	76 ppb	Pulmonary function	2018
(ground level)	maximum			
	1			T
Fine Particulate	1 hour	80 ugr/ m ³	Canadian standard	2018
Matter – 2.5	24 hour	29 ugr/ m ³		2019
microns				
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Styrene	1 hour	52.0 ppb	Adopted from Texas	1999
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Sulphur Dioxide	1 hour	172 ppb	Pulmonary function	1975, reviewed 2008
	24 hour	48.0 ppb	Adopted from European	
	30 day	11 ppb	Union human health	-
	Annual	8.0 ppb	Adopted from European	
			Union ecosystems	
		100		2005
Toluene	1 hour	499 ppb	Adopted from Texas	2005
	24 hour	106 ppb	Adopted from Michigan	
			and Washington	
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Xylenes	1 hour	530 ppb	Adopted from Ontario	2005
	24 hour	161 ppb	Adopted from California	