

## Appendix A

# National and State Ambient Air Quality Standards for the PRB Coal Review

## Appendix A

**Table A-1  
National and State Ambient Air Quality Standards  
For the PRB Coal Review**

Pollutant	Averaging Period	National	Wyoming	Montana
PM <sub>10</sub>	Annual	50 µg/m <sup>3</sup> arithmetic average	Same as NAAQS	50 µg/m <sup>3</sup> , state and federal violation when more than one expected exceedance per calendar year, averaged over 3 years.
	24-hour	The 150 µg/m <sup>3</sup> standard has been revoked at the date of this report.	150 µg/m <sup>3</sup> , maximum average concentration, no more than one exceedance per year.	150 µg/m <sup>3</sup> , state and federal violation when the 3-year average of the arithmetic means over a calendar year exceeds the standard.
PM <sub>2.5</sub>	Annual	15 µg/m <sup>3</sup> , 3-year average of annual arithmetic mean.	15 µg/m <sup>3</sup> , annual arithmetic mean	Same as NAAQS.
	24-Hour	35 µg/m <sup>3</sup> , 98th percentile of the 24-hour values determined for each year. 3-year average of the 98th percentile values.	35 µg/m <sup>3</sup> , 98th percentile 24-hour average	Same as NAAQS.
SO <sub>2</sub>	Annual	0.03 ppm (80 µg/m <sup>3</sup> ), annual arithmetic mean not to be exceeded in any calendar year.	60 µg/m <sup>3</sup> , arithmetic mean	0.02 ppm, state violation when the arithmetic average over any four consecutive quarters exceeds the standard.
	24-hour	0.14 ppm (365 µg/m <sup>3</sup> ), not to be exceeded more than once in any calendar year	260 µg/m <sup>3</sup> , maximum concentration not to be exceeded more than once per year	10 ppm, rolling average, not to be exceeded more than once every 12 consecutive months.
	3-hour	0.50 ppm (1,300 µg/m <sup>3</sup> ), not to be exceeded more than once in any calendar year (secondary standard)	1,300 µg/m <sup>3</sup> (0.50 ppm), maximum concentration not to be exceeded more than once per year.	Same as NAAQS.
	1-hour	No standard	--	0.5 ppm, not to be exceeded more than 18 times in any 12 consecutive months.
CO	8-hour	10 mg/m <sup>3</sup> (9 ppm), maximum concentration not to be exceeded more than once per year	Same as NAAQS	9 ppm, not to be exceeded more than once over any 12 consecutive months.
	1-hour	35 ppm (40 mg/m <sup>3</sup> ), maximum concentration not to be exceeded more than once per year.	Same as NAAQS	23 ppm, not to be exceeded more than once over any 12 consecutive months.
NO <sub>2</sub>	Annual	0.053 ppm (100 µg/m <sup>3</sup> ) Annual arithmetic mean	Same as NAAQS	0.05 ppm, not to be exceeded more than once over any 12 consecutive months.
	1-hour	--	--	0.30 ppm, not to be exceeded more than once over any 12 consecutive months.

<sup>1</sup>Hydrogen sulfide, ozone, and lead are not being modeled for this study; hence, they are not included in this table.