

## 2017 Q4 (October-December) Monitoring Results



### Air Quality Health Index (AQHI) Ratings

The AQHI describes the level of health risk associated with an AQHI number. The levels are low, moderate, high or very high. The higher the index number, the greater the health risk. Go to [our website's AQHI page](#) for more information. Six of FAP's nine continuous air monitoring stations monitor the substances required to calculate the AQHI.

Station Name	Hours Monitored	Risk Level (% of time in each)			
		Low	Moderate	High	Very High
Bruderheim	2116	98.6%	1.4%	0.0%	0.0%
Elk Island	2002	98.7%	1.2%	0.0%	0.0%
Fort Saskatchewan	2099	93.0%	7.0%	0.0%	0.0%
Gibbons	2149	95.3%	4.6%	0.1%	0.0%
Lamont County	2053	98.8%	1.2%	0.0%	0.0%
Redwater*	1403	97.4%	2.6%	0.0%	0.0%
<b>Total hours</b>	<b>11,822</b>	<b>11459</b>	<b>362</b>	<b>1</b>	<b>0</b>

\*The new Redwater station began reporting the AQHI on November 1, 2017.

### Hours with a High or Very High Risk AQHI Rating

There was only one hour during Q4 of 2017 when there was a high or very high AQHI rating. This occurred on December 22 at the Gibbons station and is attributed to an unknown localized source.

### Summary of Exceedances

Air quality measurements are compared hourly to the [Alberta Ambient Air Quality Objectives](#) (AAAQO). Any exceedance of an AAAQO is reported to the Alberta Government and the cause of the exceedance investigated.

	Parameter	Exceedances	Dates	Attributed Cause
<b>One hour</b>	Respirable Particulate PM <sub>2.5</sub>	1	December 22	Unknown localized source; possibly car idling or fireplace smoke
<b>24 hour</b>	Respirable Particulate PM <sub>2.5</sub>	1	November 11	Regional effects; possibly wintertime inversion