

## 2019 Q4 (October-December) Monitoring Results



### Air Quality Health Index (AQHI) Ratings

The AQHI is calculated by the Government of Alberta using data collected at FAP air monitoring stations. The AQHI is a measure of air quality as it pertains to human health. AQHI levels are low, moderate, high or very high. Risk to health increases as the index level rises. Go to [our website's AQHI page](#) for more information. Seven of FAP's 10 continuous air monitoring stations monitor substances whereby the AQHI can be calculated.

2019 – Q4		AQHI Risk Level			
Station Name	Hours Monitored	Low	Moderate	High	Very High
Bruderheim	2,101	98.91%	1.09%	-	-
Elk Island	2,098	99.38%	0.62%	-	-
Fort Saskatchewan	2,053	97.22%	2.78%	-	-
Gibbons	2,109	95.54%	4.41%	0.05%	-
Lamont County	2,106	99.95%	0.05%	-	-
Redwater	2,058	99.08%	0.92%	-	-
Chipman (portable)	2,165	100.00%	-	-	-
<b>Total hours</b>	<b>14,690</b>	<b>14,483</b>	<b>206</b>	<b>1</b>	<b>-</b>

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

There were one hour of a high rating and no very high AQHI ratings during Q4 of 2019.

### 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. The following table details what substances exceeded an AAAQO, when they occurred and if it can be determined, the likely cause. There were no exceedances of the 24-Hour Ambient Objectives in the 4<sup>th</sup> Quarter of 2019.

One Hour Exceedances			
Parameter	Exceedances	Dates	Attributed Cause
Fine Particulate (PM <sub>2.5</sub> )	1	November 3	Undetermined
Hydrogen Sulphide (H <sub>2</sub> S)	1	December 9	Undetermined