

# > NOISE MONITORING

## PATCHING ASSOCIATES ACOUSTICAL ENGINEERING

### ▶ QUANTIFY NOISE WITH ACCURACY

Noise Monitoring serves to quantify noise levels received at a specific location, and is useful for multiple stakeholders. Owners and operators of noise-emitting facilities use noise monitoring to determine compliance with noise regulations, and to calibrate noise models under specific conditions by comparing measured levels to modeled levels. Noise monitoring can also be used to determine facility noise levels received at residential properties to actively address existing concerns, or proactively mitigate risks of future noise complaints. Noise regulators also rely on noise monitoring to demonstrate compliance utilizing measured data.

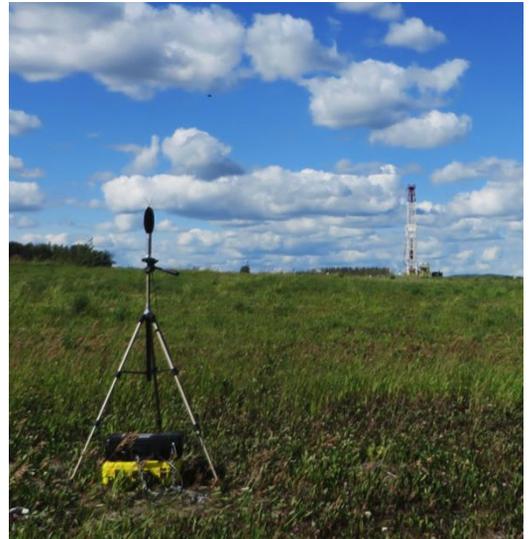
### ▶ MANAGE NOISE LEVEL VARIATIONS

At a minimum, noise monitoring consists of a sound monitor kit installed at the desired location. However, noise levels vary greatly under changing noise source and environmental conditions. To manage these challenges, Patching Associates typically includes additional sound monitors located close to each facility to track operating conditions, and a weather station to measure fluctuating environmental conditions. Noise monitoring surveys can vary from several days to several weeks in order to capture the right facility operating conditions under the right environmental conditions.

### ▶ PRECISE MEASUREMENT AND ANALYSIS

Patching Associates possesses high precision noise monitoring equipment, including the following features:

- Long-term monitoring, even at remote locations without external power sources.
- Sound recording capability to easily identify the nature of the noise and isolate different noise sources.
- Remote connection to manage unattended sound monitors and view real-time noise data from any location.
- Full spectrum measurements to perform in-depth analysis and determine Low Frequency Noise components.



“Patching Associates collaborated with Baytex Energy to develop a master noise model that assessed cumulative noise impacts in a concentrated region. Their field expertise and timely delivery ensured a successful project experience”.

Jim Wu  
Facilities Engineer  
Baytex Energy

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