Atmospheric sciences
Noise and vibration

Stantec's global group of acoustic specialists understand your challenges related to regulatory compliance and public concern over noise and vibration. Our collective experience ranges from environmental and transportation noise, to monitoring and vibration, which provides you with the technical expertise to consistently deliver quality noise and vibration solutions. Through innovative problem solving and smart application of technology, Stantec delivers the noise and vibration solutions that fit your needs.

80+ noise, vibration and acoustic specialists
100+ projects involving noise and vibration monitoring
300+ years of collective expertise in studying noise, vibration and acoustics
Our experience includes

ENVIRONMENTAL NOISE AND VIBRATION

Environmental noise and vibration are the community impacts related to industrial and manufacturing facilities, construction and blasting activities, renewable energy, mining and occupational health. It also involves designing the acoustic environment (known as soundscaping) and addressing underwater acoustic impacts, as well as impacts to wildlife.

TRANSPORTATION NOISE

Transportation noise involves the impact on the acoustic environment from transportation sources. This includes addressing noise from Airports and aircraft; Marines and ports; Road and Highway noise, as well as noise from Rail, including Passenger and Freight, light rail and subway. This includes noise and vibration impacts from moving transportation (rail and road traffic), as well as supporting facilities such as maintenance, yard and terminal facilities.

MEASURING AND MONITORING

The measurement and monitoring of noise and vibration is an ongoing requirement for a variety of projects. This involves monitoring of individual sources of noise and vibration, construction monitoring for on-going impact to communities, as well as long-term operational monitoring for transportation.

EXPERT WITNESS AND PEER REVIEW

Technical peer review of noise and vibration studies to address impacts from other projects on our clients’ project. Alternatively, our clients requiring expert technical witnesses to support their own noise and vibration studies, including mitigations and conclusions; especially in litigative circumstances.