



Construction Noise And Vibration Services



✓ *Astute planning* ✓ *Defendable compliance* ✓ *Responsive monitoring*

Stay a step ahead



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At Matrix Acoustics our mission is to keep you a step ahead on your construction project.

What is your plan to avoid delays from noise and vibration issues that can quickly side-track your project? Is regulatory compliance your sole safeguard? We understand that small problems can have large impacts, and time is money.

Why choose us?

Every construction project needs a capable team who combine foresight, skilful planning, and exceptional technical expertise to actively manage noise and vibration.

Our team will guide you through the whole process, from the planning and assessment phase through to the construction phase. We provide our ongoing support to help you keep your project on track.

When you work with Matrix Acoustics, we become part of your project team and we take on your project like it's our own.



Astute planning

Planned mitigation across the project life cycle to place you in the strongest position to deliver your project.



Defendable compliance

In-depth understanding of Queensland's regulatory requirements to establish a strong defendable position to mitigate issues.



Responsive monitoring

Ongoing monitoring to measure and review impacts and to help you respond quickly to emerging issues.

- ✓ **We understand large, complex construction projects.** Tap into our 30+ years of award-winning industry experience across a range of sectors including transport, construction, mining, power, oil and gas.
- ✓ **We give you the best value.** We help you across the whole project life cycle which enables the most successful outcomes for your construction project.
- ✓ **We are adaptable.** We've delivered many types of projects covering design, systems implementation, planning, and monitoring. Leverage our wealth of experience to get your job done.





Matrix Acoustics delivers a complete package of professional noise and vibration services with exceptional risk management and sophisticated ongoing monitoring.

Delays cost but astute planning conquers

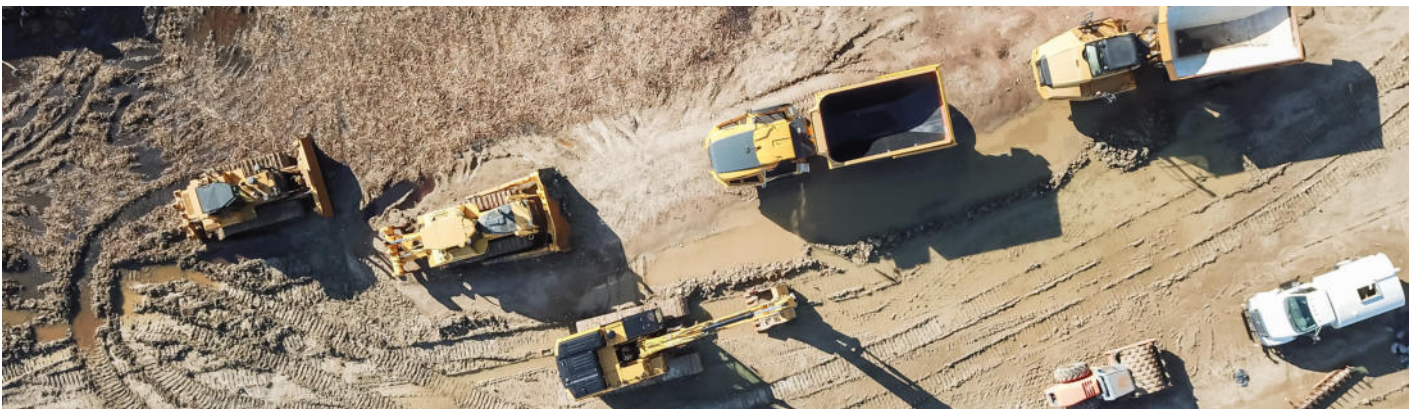
- We understand how crucial it is to manage and avoid construction project delays. Our valued clients are well attuned to the business advantages of a whole-of-project view that astutely plans for risks and impacts across the project life cycle.
- Our forward-thinking planning is anchored by skilful, real-world modelling and assessment. We carefully define your project criteria to facilitate project reporting and impact assessments. We deliver criteria that maximises your project's progression by carefully understanding your project scope.

Keeping you a step ahead: Agile and timely

- We want to help you get your job done successfully. You're our client and we've got your back. We proactively identify potential issues and alert you to emerging risks. We help you meet all compliance criteria and to skilfully manage challenges as they arise.
- We use Matrix Hub, a best-in-class measurement and monitoring system for automatic, integrated tracking of noise and vibration data throughout the construction phase.
- We can usually provide same-day site visits to take measurements, conduct assessments or troubleshoot.

We get large, complex construction projects

- Ensuring you have a defensible position on compliance is key from the planning phase through to the construction phase. We bring an in-depth knowledge of Queensland's regulatory criteria, combined with a mix of TMR-accepted calculation and prediction methods.
- We have a solid track record in delivering construction noise and vibration assessments that put you in a strong position to meet all regulatory compliance criteria. We work closely with you to understand your project and the likely challenges so they can be properly addressed in the assessment.





Ongoing partnerships: Your project is our project

We think of ourselves as your inhouse team of specialists who understand your deadlines, project challenges and your project scope. We take on your project like it's our own. That's why our most valuable clients choose us and involve us in many of their successful construction projects.

Our ongoing partnerships are built on excellent communication with our clients, stakeholders and regulators. We actively troubleshoot issues, and we follow things through to the end.

The people we work with are important to us and we want them to succeed.

Our technical expertise

Our full package of services includes planning, compliance to statutory regulations, detailed site noise and vibration mitigation, comprehensive monitoring, negotiations between clients and regulators, and delivering intelligent solutions.

Measurement Standards

- **IEC61672 2013:**
Electroacoustics – Sound Level Meters
- **ISO8041:**
Human response to vibration
- **DIN45669:**
Measurement of vibration immision
- **AS1055:**
Acoustics – description and measurement of environmental noise
- **AS2436:**
Guide to noise and vibration control on construction sites
- **ANSI S1.4:**
Specifications for sound level meters
- **ESR/2016/2195:**
Noise Measurement Manual QLD EPA
- **AS2702:**
Acoustics - Methods for the Measurement of Road Traffic Noise

Modelling Standards

- **ISO9613 1996:**
Acoustics – attenuation of sound during propagation outdoors
- **CONCAWE model:**
For calculating the propagation of noise
- **Calculation of Road Traffic Noise (CoRTN)**
- **BS5228 2009**
Code of practice for noise and vibration control on construction and open sites
- **AS2187 2006**
Explosives storage transport and use
- **BS7385 1993**
Evaluation and measurement for vibration in buildings
- **FTA Transit noise and vibration impact assessment manual**
- **TRL report 429**
Groundborne vibration caused by mechanised construction works

Talk to our team today

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