

Qualifications

- Bachelor of Mechanical Engineering with Honours – University of Canterbury (2001)

Industry Involvement

- Councillor and Member of the Acoustical Society of New Zealand (MASNZ)
- ASNZ representative for the Joint New Zealand Australia Standards Committee EV-010 *Acoustics – Community Noise*
- NZ Site Safe Consultants Passport

Company Membership

- Association of Australasian Acoustical Consultants (AAAC)
- The Association of Consulting Engineers New Zealand (ACENZ)

Associate Acoustic Engineer Tracy Hilliker has over 10 years' professional experience working in the field of acoustics. Previously she worked as a Mechanical and Hydraulics Engineer within the building services sector for over four years. Joining AES in 2007, Tracy brings extensive experience and skills in areas such as building acoustics, building services noise review, environmental noise assessment, noise monitoring and verification testing within New Zealand for both the public and private sectors.



As a consultant, Tracy is familiar with the requirements of the New Zealand Building Code and associated Standards and Guidelines and has successfully contributed to a wide range of projects including the acoustic design of state and private education facilities, cafes/restaurants and function centres, hotels and apartments, sports gyms, atriums, office spaces, hospitals, audiology test rooms, and mixed-use commercial developments. She has also undertaken computational noise modelling for various activities including quarries, live bands, theatres, churches, recreational noise, construction noise, factories and traffic. She has a particular interest in building acoustics and specialises in educational and health facility design, along with analysis of mechanical plant noise and NZGBC Green Star review.

Key Strengths

- Excellent communication skills and co-ordination with team members and key stakeholders.
- Local knowledge and understanding in operating within a post-earthquake environment.
- Detailed understanding of all aspects of project development from initial client briefing, through staged building design and construction, value engineering, verification testing and post-occupancy evaluation.
- Familiarity of relevant District Plan and Building Consent noise related parameters including NZBC Clause G.06, zone noise rules, construction noise and sound insulation requirements.
- Extensive experience with Ministry of Education *DQLS – Acoustics* guidelines and specific application to innovative 21st century learning environments.
- Broad range of technical experience including room acoustics, environmental noise emissions, mechanical plant noise control, Safety in Design solutions and construction observation.

Project Experience

- Hagley Oval / Canterbury Cricket, Christchurch
- Hanmer Springs Thermal Pools and Spa Extension, Hanmer
- Fulton Hogan Miners Road Quarry, Canterbury
- Christchurch City Council Civic Building, Christchurch
- Air New Zealand Regional Lounge, Christchurch International Airport
- The Arts Centre of Christchurch restoration
- Regional Centre for Science, Innovation and Technology, University of Canterbury
- Southern DHB Children's Inpatient Relocation Project, Dunedin Public Hospital
- Rangī Ruru Girls' School, Christchurch – Project Blue Sky site wide redevelopment
- Ao Tawhiti Unlimited Discovery, Christchurch