

**Curriculum Vitae
SAM DEMASI**



BEng (Mech)

Position

Associate, Wilkinson Murray

**Qualifications
& Affiliations**

- Bachelor of Engineering (Mechanical)

Special Expertise

- Building Acoustics
- Environmental Noise and Vibration Monitoring
- Environmental Noise Assessment
- Construction Noise Monitoring and Assessment

Employment History

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|--------------------------|--|
| 1990 – 1997 | Cadet Engineer, Sydney Water Corporation |
| 1997 – 1998 | Engineer / Project Manager, Sydney Water Corporation |
| 1998 – 2000 | Engineer, Atkins Acoustics |
| 2000 – 2003 | Engineer, Richard Heggie & Associates |
| January 2004 – June 2006 | Engineer, Wilkinson Murray |
| July 2006 – June 2007 | Project Engineer, Wilkinson Murray |
| July 2007 – June 2008 | Senior Engineer, Wilkinson Murray |
| July 2008 – August 2010 | Associate Director, Cardno ITC |
| September 2010 – present | Associate, Wilkinson Murray |

PROJECT EXPERIENCE

Sam has been responsible for noise impact assessments and/or noise control design advice in numerous projects including:

TRANSPORT

- Noise logger placement, attended monitoring and noise modelling of various route options for the Lawrence Hargraves Drive and Princes Highway intersection improvement
- Noise logger placements, attended monitoring and assessment of Great Western Highway Upgrade – Lawson (Stage 2)
- Noise logger placements, organisation of road traffic counting, attended noise monitoring, and reporting for Old Windsor Road, Seven Hills (compliance)
- Noise logger placement for long term monitoring and assessment of results for Taree Bypass
- Pre-Construction Ambient Noise Monitoring Programme for Westlink M7 project, including noise logger placement and reporting
- Construction Noise and Vibration Monitoring Programme and Implementation for Westlink M7 project
- Noise logger placements for long term monitoring and assessment of results for Parramatta Rail Link Pre-Construction Ambient Noise Monitoring Programme
- Noise logger placements for long term monitoring and assessment of results and East Hills Rail Link Quadruplication
- Prediction of the impact of road traffic noise on a development using CoRTN software
- Facade design to control road, rail and aircraft noise
- Internal noise level compliance measurements from road, rail and aircraft noise
- Measurement and assessment of vibration such as rail pass-bys
- Southern Sydney Freight Line – construction noise and vibration

INDUSTRIAL NOISE

- Acoustic assessment of commercial developments (e.g. Burger King Family Restaurants, BP Service Centres, various Clubs and Hotels) in relation to mechanical noise, patron noise, music noise, vehicle noise and sleep disturbance
- Hearing Conservation measurements and assessments for Kysor Warren – Glendenning, Kellogs – Botany and Coles (Meat Division) Goulburn
- Assessment and measurement of mechanical plant systems
- Transformer housing building element design
- Transformer noise level measurements using sound intensity
- Assessment of noise from various Childcare Centres
- Assessment of operational and construction noise from facilities such as Bateau Bay Sports Facility, Rozelle Bay Dry Boat Marina, Homebush Bay Remediation and Shell Cove Boat Harbour / Marina Development

ARCHITECTURAL

- Building element design to achieve required acoustic ratings wall and floor systems, including acoustic opinions of wall and floor-ceiling systems (both airborne and impact)
- Design of mechanical systems to achieve required internal noise design goals and external statutory noise design goals, i.e. roof top ventilation systems
- Design of vibration isolation systems, i.e. swimming pools and mechanical plant rooms
- Inspections of building elements, mechanical systems and hydraulic systems
- Acoustic testing of facades, walls, floor-ceiling systems (both airborne and impact) and internal noise levels from all forms of traffic, mechanical and hydraulic sources
- Acoustic advice on music and TV recording studio design (both internal and control to residents)
- Specific projects include:
 - Sandy Point Apartments, The Entrance
 - The Linc Apartments, Alexandria
 - Glebe Harbour Apartments, Glebe
 - Abode Apartments and Commercial Development, St Leonards
 - Market Street Apartments and Commercial Development, Wollongong
 - Various residential and commercial developments in Jacksons Landing, Pyrmont
 - Philips Fox, Elizabeth Street Office Fit-Out, Sydney
 - Aldi Head Office and Distribution Centre, Minchinbury
 - Greenwood Hotel Conversion to Apartments and Commercial Development, Paddington
 - Waratah Mills Conversion to Apartments and Commercial Development, Hurlstone Park