

Curriculum vitae

Najah Ishac

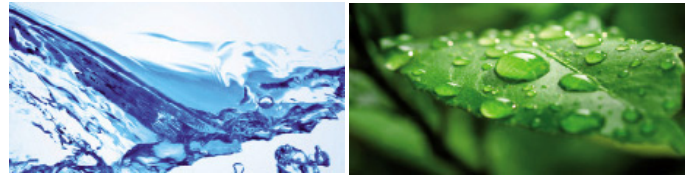
Director

Najah is a founding Director of EMGA Mitchell McLennan and has almost two decades of experience in noise and vibration, managing a team of acoustic specialists for over 10 years and has project managed a number of large scale acoustics and related projects.

He has experience in measurement, analysis, assessment and computer modelling of noise and vibration for road traffic, rail traffic, aircraft (using INM), mines (using ENM), and various industrial sites. He specialises in large scale infrastructure project approval processes and negotiation with consent authorities and consultation with community.

His experience extends to architectural acoustics pertaining to mechanical services, BCA, Australian Standards and noise control for design, construction and compliance phases. Najah has provided expert witness testimony relating to noise in several court proceedings, with supporting documentation. He has also been appointed to the DoP's Independent Hearing and Assessment Panel (IHAP).

Najah has been involved in various major projects such as Anvil Hill Coal Mine and Southern Highlands Shooting Complex IHAP appointments, West Pit Extension and Minor Modifications EIS; Extension of Warkworth Coal Mine EIS; Hunter Valley South operations Modifications EIS; Mt Thorley Extension; Mt Arthur North Coal Mine EIS; Mt Pleasant Coal Mine EIS; Desalination Pipeline Project; Muswellbrook Rail Strategy; West Rail Noise Modelling in Hong Kong; RTA's Heavy Vehicle Noise Reduction Study; the Sydney International Shooting Centre (Cecil Park); Second Sydney Airport ANEF contour calculations; M2 and M4 motorway noise barrier design.



Fields of Competence

- Environmental Noise
- Noise & Vibration Measurement & Control.
- Architectural Acoustic Design.

Key Industry Sectors

- Infrastructure and Energy
- Mining
- Regional Government

Education

- Masters of Engineering Science;
- Bachelor of Engineering (Mechanical)
- Land & Environment Court Expert Witness Accreditation Certificate

Professional Affiliations

- Member Institute of Engineers Australia (MIEAust).
- Member & NSW Vice Chairman of the Australian Acoustic Society (MAAS).

Publications

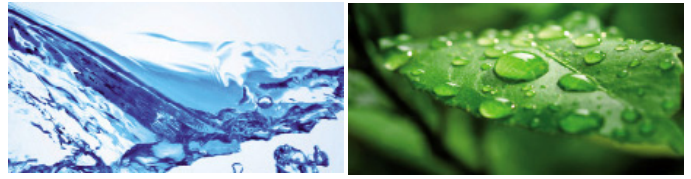
"Heavy Vehicle Noise Reduction Study" 5th International Congress on Sound & Vibration, 1997.

"Experimental Outdoor Sound Propagation" 13th International Congress on Sound & Vibration, 2006

"Experimental Outdoor Sound Propagation vs ENM" Australian and New Zealand Acoustic Society Conference, 2007

"Sound vs Noise in the Community" Australian Acoustical Society Conference 2008

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Key Projects

Court Work

Kempsey Shire Council vs Mobbs 2006

Providing expert witness testimony in the Land & Environment Court proceedings in relation to potential industrial noise impacts on proposed dwelling in South Kempsey, NSW.

Shire of Serpentine-Jarrahdale Council WA vs Big Country Australia Pty Ltd 2005-2006

Providing expert witness testimony in the State Administrative Tribunal proceedings in respect of noise from upgraded tunnel ventilation chicken sheds, WA.

Coca Cola Amital vs Aquilina 2005

Providing expert witness testimony in the Land & Environment Court proceedings in relation to potential noise impacts from extension of operations of bottling plant on neighbouring dwelling Peats Ridge, NSW.

Sydney Gas Company Pty Ltd v Mt Gilead

Representing applicant in a third party appeal hearing for a new Gas Plant. A complete noise and vibration impact assessment (including design control) was undertaken. Expert advice provided to the L&E Court in the form of a consolidated report between myself and the respondent's acoustic expert to assist the court with its assessment.

Dixon Sands vs Diamond (3rd Party Appeal)

Representing applicant in a third party appeal hearing for a sand extraction quarry. A complete noise and vibration impact assessment (including design control) was undertaken.

Owens vs Mosman Council

Representing applicant in obtaining approval for domestic air-conditioning and pool equipment installations. A complete noise assessment (including design control) was undertaken.

Fishermans Village vs Prot Stephens Council

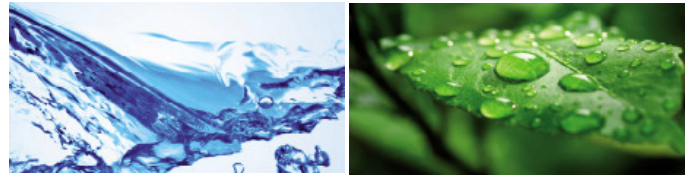
Representing applicant in Supreme Court in respect of aircraft noise impacts on the Fishermans Village eco-tourist resort development.

Sell & Parker Metal Recyclers / Blacktown Council. Representing applicant in obtaining approval for a metal recycling facility. A complete noise and vibration impact assessment (including design control) was undertaken.

Bonfoal / Botany Council. Representing applicant in obtaining approval for a concrete batching plant. A complete noise and vibration impact assessment (including design control) was undertaken.

Fernance Holdings P/L / Newcastle Council. Providing advice on behalf of Council (Respondent) in relation to pub crowd noise. A complete noise impact assessment was undertaken.

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2008 to Current, EMGA Mitchell McLennan - Director

- Mount Pleasant Mine Modification
- Mount Thorely Warkworth Operations Modification
- Abbey Green North Noise
- Hunter Valley South Mine Noise
- Marulan South Quarry
- Sydney Desalination Pipeline Project
- Sydney Gas Treatment Plant Mt Gilead NSW
- Third Hunter Crossing
- RAAF Base East Sale
- Holsworthy Army Barracks
- Bankstown Airport
- Parklife Music Festival
- Target Off-site Reserve
- Southern Sydney Freight Line Noise Review
- Southern Highlands Shooting Complex IHAP update
- Kent Street Apartment Acoustics
- Townhouse Development Traffic Noise Intrusion Assessment
- Georges Fair Road Traffic Noise and Barrier Design
- Garden Island Dredging Noise
- Punchbowl Child Care Centre Noise
- Greystanes Child Care Centre Noise
- RASP Mine Noise Broken Hill.

1997 to 2008, ERM Australia - Senior Acoustic Engineer & Manager Acoustics

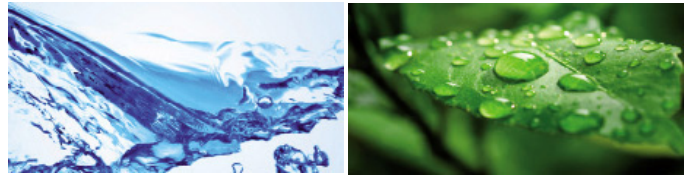
Responsible for the ERM NSW noise practice with respect to business development, marketing, resourcing and financial targets. Duties include technical advice, project management and project director roles in noise related projects. Aspects of work include measurements, modelling, assessment and design of measures to control noise and vibration.

Representative projects include:

Environmental Impact Assessment

- Centennial Parklands NSW NMP
 - SCG and SFS NMP
 - Anvil Hill Coal Mine IHAP appointment
 - West Pit Extension and Minor Modifications EIS
 - Extension of Warkworth Coal Mine EIS
 - Hunter Valley South operations Modifications EIS
 - Mt Thorley Extension
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- Mt Arthur North Coal Mine EIS
- Mt Pleasant Coal Mine EIS
- Ravensworth East Coal EIS
- North Power REF noise impact assessment
- Warragamba Dam Spillway noise and vibration impact assessment
- Metal Recycling Fragmentation Facility EIS noise and vibration impact assessment
- Noise Assessment for Barina Hard Rock Quarry Lake George Collector NSW
- Glenbrook EIS noise and vibration impact assessment Rosehill Concrete Tile Manufacture EIS noise and vibration impact assessment
- Proposed Penrith Anglican College Noise Impact Assessment
- Woronora & Illawarra Water Filtration Plants noise and vibration impact assessment
- Linfox Properties Group Storage & Warehouse Facility Homebush, NSW noise and vibration impact assessment
- Noise With Non-Neutral Weather Conditions - Mt Thorley, Coal & Allied
- Boral Bricks Moorebank Operations- Noise Investigation, Boral Bricks NSW Pty Ltd
- Coles Myer Distribution Centre, Coles Myer noise and vibration impact assessment
- Narrabeen Pistol & Shotgun range noise impact assessment.

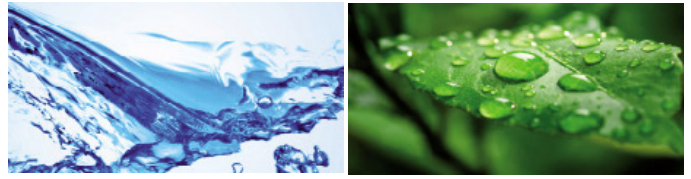
Energy and Utilities

- Riverwood Zone Substation
- *Lisarow Substation*
- *Proposed Kogarah Substation*
- *Killarney Substation Upgrade*
- *Hornsby Substation Transformer Installation*
- *Proposed Potts Hill Substation*
- *Turrumurra 33kV Feeder Replacement and Warringah to Brookvale 33kV Feeder Installation Construction Noise and Vibration Assessments*
- *Homebush Zone Substation Upgrade*
- *Botany Substation Compliance Investigation*
- *Proposed Top Ryde Substation*

Transportation Noise

- Parramatta Rail Link EIS noise and vibration assessment for proposed development
- Western Sydney Interim Transitway road traffic noise assessment
- M2 Post Opening Traffic Noise Assessment
- Sydney Airport Baseline Noise Study - North East Sector, FAC
- Muswellbrook Rail Strategy, Muswellbrook Council, noise measurement and assessment
- Proposed M5 East Motorway traffic noise assessment
- Cessnock REF traffic noise assessment
- Second Sydney Airport ANEF contours, FAC, for supplementary EIS documentation
- Heavy Vehicle Noise Reduction Study, Roads & Traffic Authority, NSW – research and development project
- Hong Kong Rail Noise, ERM Hong Kong, modelling and assessment

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- M4 Upgrading Project- Orchard Hills Traffic Noise Investigation, NSW RTA
- Captain Cook Cruises, N.G Cassim & Co, Solicitors, water vessel noise impacts.

Noise Control

- The Kirk Cabaret Theatre Noise Assessment, Corrs Chambers Westgarth Lawyers
- Darrell Lea New Chiller & Cooling Tower Noise, Darrell Lea Chocolate Shops Pty Ltd control design
- Austral Bricks Horsley Park Noise Reduction Program, Austral Brick Company.

Architectural Acoustics

- RAAF Williamstown Redevelopment;
- RAAF Colleges Relocation (Wagga and East Sale)
- 171 Aviation Squadron Relocation Holsworthy
- Sydney International Shooting Centre, Gazzard Sheldon Architects
- Arnotts Huntingwood Facility, Civil & Civic
- ADF School of Languages RAAF Williams, Group GAS P/L
- HMAS Albatross Redevelopment Stage 1- Acoustics, Lend Lease
- Italian Forum Balmain.

1995-1997, Renzo Tonin & Associates Pty Ltd.- Project Engineer/Consultant in Acoustics.

Responsible for measurements, modelling, assessment and design of measures to control noise and vibration.
Representative projects include:

- Woronora and Illawarra Water Filtration Plants, Concrete Kinhil JV.
 - Linfox Properties Group Storage and Warehouse Facility Homebush, NSW.
 - AGL vibration investigation.
 - Arnotts Huntingwood Facility, Civil & Civic.
 - Proposed Penrith Anglican College Noise Impact Assessment.
 - Narrabeen Pistol and Shotgun range.
 - Heavy Vehicle Noise Reduction Study, Roads & Traffic Authority, NSW.
 - Proposed M5 East Motorway.
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