

<b>To:</b>	Olivia Ridgewell	<b>At:</b>	ESR
<b>From:</b>	Mark Irish	<b>At:</b>	SLR Consulting Australia Pty Ltd
<b>Date:</b>	10 May 2022	<b>Ref:</b>	610.19360-M08-v0.1 Lot 202 NVR DPE Response.docx
<b>Subject:</b>	Horsley Logistics Park - Lot 202 Noise Verification Report Response to DPE Request for Additional Information		

SLR Consulting Australia Pty Ltd (SLR) was engaged by ESR to prepare a Noise Verification Report (NVR) for Lot 202 (formerly Lot 204), 327-335 Burley Road, Horsley Park, in New South Wales (NSW) as required by SSD 10436 Consent Condition B13.

Following submission of the NVR, the NSW Department of Planning & Environment (DPE) has requested additional information in a letter (SSD-10436-PA-47), summarised below:

*You are requested to submit a revised document that addresses the following:*

- *Curriculum Vitae of relevant SLR staff member who has suitable qualifications to conduct noise assessments.*
- *Relationship between the current version of the NVR and an earlier version that was submitted under post approval PA-18 for which there is an outstanding request for information under cover of the Department's letter dated 26 August 2021.*
- *Australian Standard AS 1055:2018 Acoustics – Description and measurement of environmental noise.*
- *How the mitigation measures comprising an infill noise wall to the super canopy and Warehouse C rooftop plant screening have been assessed to be adequate to meet noise criteria and to justify the lack of any additional noise control measures and whether the 'indicative 10m building/barrier to Stage 3 boundary' noted in Table 9 and in Figure 1 are to be considered as 'additional measures', with reference to condition B13(d).*

This memorandum includes SLR response to the above-mentioned letter.

## **DPE Comment 1:**

*Curriculum Vitae of relevant SLR staff member who has suitable qualifications to conduct noise assessments.*

## **SLR Response to Comment 1:**

CV attached as Appendix A.

#### **DPE Comment 2:**

*Relationship between the current version of the NVR and an earlier version that was submitted under post approval PA-18 for which there is an outstanding request for information under cover of the Department's letter dated 26 August 2021.*

#### **SLR Response to Comment 2:**

SLR notes that the report referred to in the RFI dated 26 August 2021 is not an earlier version of the current NVR but instead relates to the NVR that was prepared for Lot 201 (SLR report 610.19360-R07-v0.4 dated 24 August 2021).

#### **DPE Comment 3:**

*Australian Standard AS 1055:2018 Acoustics – Description and measurement of environmental noise.*

#### **SLR Response to Comment 3:**

AS 1055:2018 is primarily concerned with the *measurement* of environmental noise and SLR assumes the DPE comment is made in relation to Section 11 of AS 1055:2018 which requires environmental noise described by way of noise prediction to include the following:

- Calculation methodology
- Noise source characteristics (source types and locations, SWL, vehicle numbers & speeds, on-time)
- Receiver locations
- Sound attenuating features including buildings and barriers
- Meteorological conditions for each time period

Those inputs and parameters utilised in the noise modelling are detailed in Section 7.1 of the NVR.

#### **DPE Comment 4:**

*How the mitigation measures comprising an infill noise wall to the super canopy and Warehouse C rooftop plant screening have been assessed to be adequate to meet noise criteria and to justify the lack of any additional noise control measures and whether the 'indicative 10m building/barrier to Stage 3 boundary' noted in Table 9 and in Figure 1 are to be considered as 'additional measures', with reference to condition B13(d).*

#### **SLR Response to Comment 4:**

The infill noise wall to the "super canopy" was identified as a required mitigation measure in the approved SSDA assessment (SLR report 610.19360-R02-v2.1, dated 2 November 2020). The NVR is based on refined information provided by proposed tenant which included fewer vehicle movements on the hardstand area than assumed in the original SSDA assessment.

The infill noise wall to the south end of the super canopy has been designed to provide significant acoustic screening from vehicle movements on Lot 202 in addition to activity at other Lots and access roads. The updated noise modelling subsequently confirms the barrier is required to be retained.

The NVR also includes tenant mechanical plant selections which differ from the generic assumptions in the SSDA assessment. The modelling confirmed that two-sided acoustic screening would be required to Warehouse C-SSF-1 plant to comply with the project noise limits, as indicated in Figure 3 and the results in Table 9 of the NVR.

Indicative Stage 3 buildings/barriers have been included in noise modelling subsequent to the approved SSDA assessment. The predicted noise levels with and without the Stage 3 buildings/barriers in place were detailed in Table 26 and Table 28 of the SSDA assessment report. The indicative Stage 3 barriers are primarily included to represent expected future screening by substantial structures between Lot 204 and Lot 206 loading areas and the nearest receivers in NCA 3, and are not therefore directly relevant to the Lot 202 NVR.

Checked/ Authorised by: MB
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## APPENDIX A – Curriculum Vitae

# CURRICULUM VITAE



## MARK IRISH

### PRINCIPAL CONSULTANT

#### Acoustics & Vibration, Asia-Pacific

## QUALIFICATIONS

MDesSc	2001	Master of Design Science (Acoustics), Sydney University, Australia
	2000	Acoustic Communication & Architectural Acoustics at Technical University of Denmark, Lyngby, Copenhagen
BE(Elec)	1993	Bachelor of Engineering (Electrical), Sydney University, Australia

## EXPERTISE

- Building Acoustics – Sound Insulation, Noise Propagation, Room Acoustics, Mechanical Services Noise and Vibration
- Rail & Road Transportation Noise and Vibration
- Environmental & Industrial Noise Assessment and Control

Mark is an experienced acoustic consultant, having worked in the field since graduating with a Master's degree in 2001. His areas of expertise include building acoustics, transport infrastructure, planning assessment and industrial noise.

In mid-2003, Mark joined Heggies (pre-2010 acquisition for SLR Consulting) and worked primarily within the Building Group. Mark extended his building acoustics expertise to cover a wide range of environmental, industrial and rail/road infrastructure projects.

In 2008, Mark left Heggies to relocate to the UK and joined the company Robin Mackenzie Partnership in Edinburgh as team leader of four acoustic consultants. Mark continued to work as a senior consultant and lead acoustic engineer, building up strong relationships with both clients and design teams on diverse project types including hotels, residential, entertainment venues, outdoor leisure, specialist commercial spaces and industrial facilities.

Mark returned to Australia to join SLR Consulting in February 2019 as Principal Consultant with the Acoustics and Vibration team.

## PROJECTS

### Environmental & Industrial Noise Assessments

<b>Blackwattle Bay State Significant Precinct, Pyrmont (2021)</b>	Lead acoustic consultant for the noise and vibration impact assessment for the urban regeneration of existing and new Sydney Fish Market sites for this State Significant Development.
<b>Horsley Logistics Park, Sydney (2021)</b>	Noise and vibration impact assessment for multi-tenancy warehouse and distribution facility, including submission of ongoing Approvals and Modifications required for this State Significant Development.
<b>E3Sixty Waste Processing Facility, Minto &amp; Auburn (2021)</b>	Noise and vibration impact assessment for e-waste processing and management facility at two locations.
<b>Arnotts Manufacturing Expansion, Huntingwood (2021)</b>	Noise and vibration impact assessment for expansion of existing manufacturing facility for State Significant Development.

<b>Shellharbour Airport Terminal Expansion (2020)</b>	Noise impact assessment for proposed expansion of airport terminal building, including acoustic review and upgrading advice for existing building fabric.
<b>Clay Pigeon Shooting Noise, Crieff, United Kingdom (2018)</b>	Investigation, measurement, modelling and advice on improving attenuation of target shooting noise to surrounding noise sensitive receivers.
<b>The Belfry Resort expansion, Sutton Coldfield, United Kingdom (2017)</b>	Masterplan noise impact assessment for expansion of accommodation, function and leisure facilities associated with an existing resort.
<b>Staylee Farm Waste Recycling Facility, Cumbernauld, United Kingdom (2015)</b>	Noise and vibration impact assessment of temporary waste recycling plant, built to process waste material from demolition of residential tower buildings and re-use locally in construction of new buildings.
<b>Trail &amp; Quad Bike Track, Shotts, United Kingdom (2010)</b>	Noise modelling for proposed motor sports on a brownfield site, including source and background monitoring to evaluate noise impact and mitigation for surrounding receivers.
<b>Coles Myer Regional Distribution Facility, Goulburn, NSW (2006)</b>	Site measurements, noise modelling and prediction of noise impacts from proposed operating scenarios and noise mitigation.
<b>Picton Flour Mill Expansion, NSW (2005)</b>	Site measurements, noise modelling and prediction of noise impacts from proposed operating scenarios and noise mitigation.
<b>Woolwich Dock Regeneration Project, Sydney (2004)</b>	Site measurements, noise modelling and prediction of noise impacts from proposed operating scenarios, noise mitigation and noise management strategies.
<b>MEMBERSHIPS</b>	
<b>Member</b>	Australian Acoustical Society
<b>Member</b>	Institute of Acoustics
<b>AWARDS</b>	
<b>1998</b>	Dean's Honour List in Audio Design
<b>1997</b>	Quantegy Prize for Audio Practice