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MEMORANDUM

DATE:

2021-06-29

RWDI REFERENCE #: 2101353

TO:

Luke Gladwish

EMAIL: luke.gladwish@ctpg.com.au

CC: [Name of Recipient]

EMAIL: [Email of Recipient]

FROM:

Dave Perry

Email: dave.perry@rwdi.com

RE:

RFI - Loreto Normanhurst Link Road (Project H)

Dear Luke,

As requested, the following memorandum is in response to Department of Planning, Industry and Environment (DPIE) request for additional information as detailed below:

(a) Noise Impact Assessment Report

The proposed new through-site road from Osborn Road to Mount Pleasant Avenue may result in additional noise impacts on the surrounding residential properties, particularly due to the new Mount Pleasant Avenue vehicular egress point. Please provide an updated Noise Impact Assessment Report (or an addendum statement as necessary) which provides an assessment of the additional traffic noise generated by the new through-site road and the associated impacts on the surrounding residents.

This addendum study identifies sensitive receiver locations closest to the ingress and egress of the proposed road and assesses potential noise emissions against the relevant criteria.

The SSDA noise impact assessment (ref. 2101353) established noise criteria with reference to the EPA's *Noise Policy for Industry* (NPfI) and the resulting Project Noise Trigger Noise Levels (PTNLs) for the subject areas are reproduced in **Table 1**.

Table 1: Project Noise Trigger Levels (PNTLs)

Receiver	Time of Day	ANL ¹ L _{Aeq,period}	Measured RBL ²	Measured Noise Level L _{Aeq,period}	Criteria for New Sources	
					Intrusive L _{Aeq,15min}	Amenity L _{Aeq,15min}
Mt Pleasant Ave. (North)	Day	55	47	56	52	58
	Evening	45	44	54	49	48
	Night	40	39	52	44	43
Osborn Road (North)	Day	55	59	70	64	58
	Evening	45	56	69	61	48
	Night	40	38	67	43	43

Note 1: ANL = "Amenity Noise Level" for receivers in a Suburban area.

Note 2: RBL = "Rating Background Level".

Note 1: Daytime (6am – 7pm), Evening (7pm – 10pm), and Night-time (10pm – 6am) during weekdays and Saturday (8am – 1pm).

Figure 1 presents the Link Road (Project H) boundary, ingress and egress points and sensitive noise receivers considered for assessment.



Figure 1 Link Road Layout and Receivers



Link Road from Osborn Road – Mt Pleasant Avenue (Project H) includes the construction and operation of new one-way cross-site connection road between Osborne Road and Mt Pleasant Avenue. The road will primarily be used to access parking areas within the school and for student pick up/drop off throughout the daytime period.

Traffic data has been provided by the traffic consultant (TTW) and is produced below in Table 2.

The peak Daytime (6am – 7pm) period has been assessed as traffic count data has shown negligible traffic movements (in and out) during the Evening (7pm – 10pm) and Night-time (10pm – 6am).

The ‘worst-case’ peak would occur during the school pick up and drop off, with 40% of demand distributed within the 15 minute period.

Table 2 Peak Daytime Traffic Volume (15-min period)

Assessment Stage	Year	Section	LV
Stage 1- Detailed DA	2026	Entry Osbourn Road Exit Mt Pleasant Avenue	71

Note 1: Light Vehicles (LV)

Light vehicle movements have been modelled as point sources manoeuvring at the entry and exit points presented in Figure 1 with a sound power level of 75 dBA per vehicle.

SoundPLAN V8 has been used for modelling noise emissions associated with the Link Road using the ISO 9613-2 industrial noise algorithm. The model includes ground topography, buildings and representative noise sources discussed above.

The predicted noise levels at the nearest receivers from industrial noise emissions are presented in Table 3.

Table 3 Peak Daytime Noise Level Predictions - 2026

Receiver	Criteria for New Sources Intrusive $L_{Aeq,15min}$	Worst Case Predicted dBA $L_{Aeq,15min}$	Complies (Yes/No)
2 Mount Pleasant Avenue	52	46	Yes
2A Mount Pleasant Avenue	52	50	Yes
7 Mount Pleasant Avenue	52	46	Yes
9 Mount Pleasant Avenue	52	48	Yes
11 Mount Pleasant Avenue	52	49	Yes
11A Mount Pleasant Avenue	52	50	Yes
15 Mount Pleasant Avenue	52	49	Yes
17 Mount Pleasant Avenue	52	47	Yes
19 Mount Pleasant Avenue	52	45	Yes
89 Pennant Hills Road	52	45	Yes
2 Pennant Hills Road	58	53	Yes
95 Pennant Hills Road	58	51	Yes
97 Pennant Hills Road	58	47	Yes
99 Pennant Hills Road	58	43	Yes

Based on the noise level predictions presented in Table 3, noise emissions associated with 'worst-case' peak traffic volumes entering and exiting the Link Road comply with the established noise criteria.

We hope the above is sufficient, please contact RWDI for further information if required.

Yours truly,



Dave Perry
Project Engineer
RWDI Australia Pty Ltd