Denman Storage Shed Complex

Environmental Noise Assessment

S220333RP1 Revision A

Wednesday, 18 January 2023

Resonate

Document Information

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Revision Table

Report revision	Date	Description	Author	Reviewer
0	8 September 2022	First Issue	Alex Salazar	Andrew Parker
A	4 November 2022	Second Issue	Alex Salazar	Andrew Parker

Glossary

A-weighting	A spectrum adaption that is applied to measured noise levels to represent human hearing. A-weighted levels are used as human hearing does not respond equally at all frequencies.
Ambient noise	The total noise in a given situation, inclusive of all noise source contributions in the near and far field.
Characteristic	Associated with a noise source, means a tonal, impulsive, low frequency or modulating characteristic of the noise that is determined in accordance with the NSW EPA's *Noise Policy for Industry* to be fundamental to the nature and impact of the noise.
Continuous noise level	A-weighted noise level of a continuous steady sound that, for the period over which the measurement is taken using fast time weighting, has the same mean square sound pressure as the noise level which varies over time when measured in relation to a noise source and noise-affected premises in accordance with the *Noise Policy for Industry.*
Day	As defined in the *Noise Policy for Industry* between the hours of 7:00 am to 6:00 pm
dB	Decibel—a unit of measurement used to express sound level. It is based on a logarithmic scale which means a sound that is 3 dB higher has twice as much energy. We typically perceive a 10 dB increase in sound as a doubling of loudness.
dB(A)	Units of the A-weighted sound level.
Evening	As defined in the *Noise Policy for Industry* between the hours of 6:00 pm to 10:00 pm
Frequency (Hz)	The number of times a vibrating object oscillates (moves back and forth) in one second. Fast movements produce high frequency sound (high pitch/tone), but slow movements mean the frequency (pitch/tone) is low. 1 Hz is equal to 1 cycle per second.
L_{A1}	A-weighted energy noise level exceeded for 1% of the 15 minute interval.
L_{A10}	A-weighted energy noise level exceeded for 10% of the 15 minute interval. Commonly referred to the average maximum noise level.
L_{A90}	A-weighted energy noise level exceeded for 90% of time (background level). The average minimum background sound level (in the absence of the source under consideration)
L_{Aeq}	Equivalent Noise Level— A-weighted energy averaged noise level over the measurement time.
$L_{Aeq,\ (15\ min)}$	A-weighted energy averaged noise level over a 15-minute period. Used in the EPA's *Noise Policy for Industry*.
Night-time	As defined in the *Noise Policy for Industry* between the hours of 10:00 pm to 7:00 am

Rating Background Level (RBL)	The RBL is the overall single figure background level representing each assessment period (day, evening and night) over the whole monitoring period (as opposed to over each 24-hour period used for the ABL). This is the level used for assessment purposes. It is the median value of: • All the day assessment background levels over the monitoring period for the day; • All the evening assessment background levels over the monitoring period for the evening; or All the night assessment background levels over the monitoring period for the night.
Sound Power Level (SWL)	The sound power level of a noise source is the sound energy emitted by the source. Notated as SWL, sound power levels are typically presented in *dB(A)*.
Sound Pressure Level (SPL)	The level of noise, usually expressed as SPL in *dB(A)*, as measured by a standard sound level meter with a pressure microphone. The sound pressure level in *dB(A)* gives a close indication of the subjective loudness of the noise.

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Table of Contents

1 Introduction

Resonate Consultants (Resonate) has been engaged to provide an acoustic assessment of the potential noise impacts associated with the proposed development known as Denman Storage Shed Complex to be located at Turner Street, Denman.

This assessment has been prepared for submission with the Development Application (DA) to the Muswellbrook Shire Council and have been assessed against the relevant requirements of the NSW Environmental Protection Authority (EPA) Noise Policy for Industry (NPI) and the NSW Road Noise Policy (RNP).

The noise sources from the proposed development are expected to be from the vehicle movements through the site and use of the proposed car park, there is no mechanical plant or loading dock area proposed for the development. The closest noise sensitive receivers are residential premises located adjacent to the site at the west and north project site boundaries.

The architectural drawings by Conybeare Morrison International (Revision H, 1 November 2022) have been used for this assessment and are presented in Appendix A.

2 Proposed development

2.1 Location

The proposed development is to be located at the corner of Bell Street and Turner Street (Lot 42 in DP771226) adjacent to the railway line in Denman, NSW and within the Muswellbrook Shire Council. The closest noise sensitive receivers are residences located to the immediate west and north of the subject site. The subject site in context along with the sensitive receivers and noise monitoring location are presented in Figure 1.

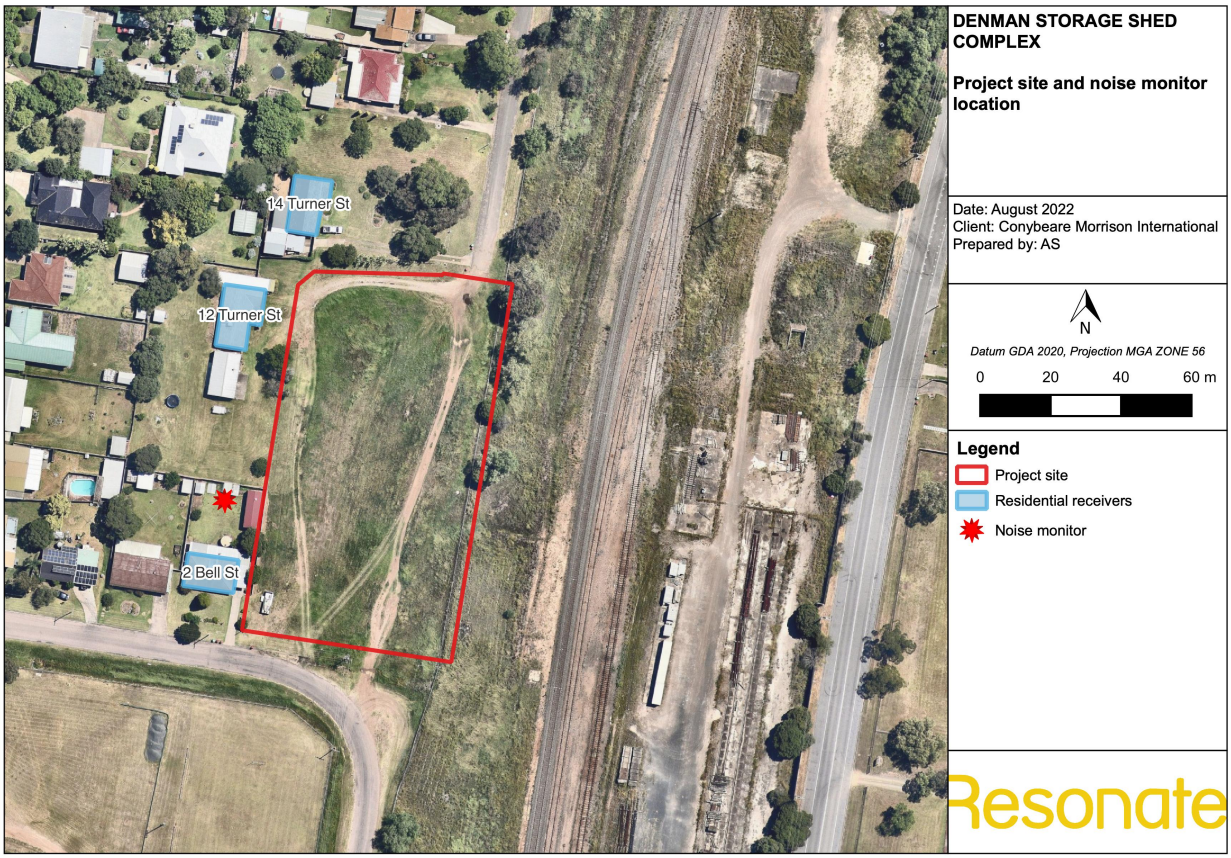

Figure 1 – Site map presenting the subject site, sensitive receivers and noise monitor location

2.2 Operation

The storage facility is proposed to operate 24 hours a day, 7 days a week and offer 24 hour access to customers.

There are two access points to the site, one entry and exit point on Bell Street at the southern boundary and one entry point from Turner Street at the northern boundary. There are 11 formal carparking spaces (inclusive of one accessible parking space) located along the western boundary of the site.

The site will have one-way circulation on the outer aisles and a two-way through the centre of the site. The aisle widths and corners have been designed to allow for cars and non-articulated trucks to travel through the site.

For further details refer to drawings presented in Appendix A.

2.3 Noise sources

Noise sources associated with the operations of the proposed storage facility are as follows:

- Private vehicles including car and trucks travelling through the site
- Private vehicles using the car park.
- Traffic generation on public roads.

3 Existing Acoustic Environment

3.1 Unattended noise monitoring

In order to characterise the existing acoustical environment of the nearest residential receiver, unattended noise monitoring was undertaken between the period 30 June and 19 July 2022 at the backyard of the residence located at 2 Bell Street, Denman (shown in Figure 1 above) to determine the background noise level for the surrounding residential receiver locations.

The instrumentation of the unattended noise monitoring comprised of one Rion NL-21 environmental noise logger (serial number: 00451254) fitted with a microphone shield. Field calibration was conducted at the commencement of the conclusion of the logging period and no significant calibration drift was observed (drift in calibration did not exceed ±0.5 dB(A)). All instrumentation carried appropriate and current NATA (or manufacturer) calibration certificates.

The logger determines L_{A1}, L_{A10}, L_{A90} and L_{Aeq} levels of the ambient noise. L_{A1}, L_{A10}, L_{A90} are the levels exceeded for 1%, 10% and 90% of the sample time respectively (see acoustic terminology definitions in glossary). The graphs in Appendix B show measured values of L_{A1}, L_{A10}, L_{A90} and L_{Aeq} for each 15-minute monitoring period.

3.2 Weather conditions

It is a requirement that noise data is captured during periods of favourable weather conditions avoiding adverse impacts of wind and rain on background noise levels. To assess weather conditions for the measurement period, half-hourly weather data was obtained from the Bureau of Meteorology (BOM) weather observation station ID 061363 at Scone Airport.

Noise data has been excluded from the processed results if:

- Rain was observed during a measurement period, and/or
- Wind speed exceeded 5 m/s (18 km/h) at the measurement height of 1.5 m above ground. Wind data obtained from the BOM is presented as the value at 10 m above ground.

The BOM wind speed data obtained for this report was measured at a height of 10 m above ground level. It is therefore necessary to apply a correction factor in order to estimate the wind speed at the height of the logger (1.5 m).

The methodology to formulate a correction factor has been derived[1]. The correction multiplier for the measured wind speed at 10 m is derived by the following formula:

$$W_{1.5} = W_{10} \times \left(\frac{M_{1.5,cat}}{M_{10,cat}} \right)$$

where:

$W_{1.5}$ = Wind speed at height of 1.5 m
W_{10} = Wind speed at height of 10 m
$M_{1.5,cat}$ = AS 1170 multiplier for receiver height of 1.5 m and terrain category
$W_{10,cat}$ = AS 1170 multiplier for receiver height of 10 m and terrain category

Noise monitoring data that has been excluded due to adverse weather conditions is identified in the overall summary and daily noise monitoring graphs presented in Appendix B.

[1] Gowen, T., Karantonis, P. & Rofail, T. (2004), *Converting Bureau of Meteorology wind speed data to local wind speeds at 1.5m above ground level*, Proceedings of ACOUSTICS 2004

3.3 Unattended noise logging results

The noise data obtained from the noise logger has been processed in accordance with the procedures contained in the NSW EPA's *Noise Policy for Industry* (NPI) to establish representative noise levels at the monitoring location. A summary of the L_{A90} and L_{Aeq} results from the unattended noise monitoring is presented in Table 1.

The background noise levels were determined by taking the arithmetic mean noise level that was exceeded for 90% of the time during the relevant assessment periods for each day, and then taking the median of all the days where monitoring took place for each assessment period as identified in the NPI. This process provides a single figure rating background noise level (RBL) for the day, evening and night periods. These RBLs were used to establish the relevant noise criteria in accordance with the NPI for each assessment period.

Table 1 Unattended noise monitoring results summary (2 Bell Street, Denman)

Descriptor	**Period**		
	Daytime 7:00 am – 6:00 pm	**Evening 6:00 pm – 10:00 pm**	**Night 10:00 pm – 7:00 am**
L_{A90}, dB (RBL)	27	26	24
L_{Aeq}, dB	50	46	44

4 Noise Criteria

The operational noise assessments presented in this report have been conducted with due regard to and in general accordance with the following guidelines and policies.

4.1 NSW EPA Noise Policy for Industry

Mechanical services and operational noise impacts associated with proposed development will be assessed against the NSW Environmental Protection Authority (EPA) Noise Policy for Industry (NPI). The NPI sets out the EPA's requirements for the assessment and management of noise from industry in NSW.

The NPI is designed for large and complex industrial noise sources and outlines processes designed to strike a feasible and reasonable balance between the operations of industrial activities and the protection of the community from noise levels that may be intrusive or unpleasant.

The NPI measurement and evaluation methodology to quantify background noise levels has been adopted for this assessment.

4.1.1 Project Noise Trigger levels

The NPI describes 'Project noise trigger levels' which indicate the noise level at which feasible and reasonable noise management measures should be considered. Two forms of noise criteria are provided – one to account for 'intrusive' noise impacts and one to protect the 'amenity' of particular land uses.

- The intrusiveness of an industrial noise source is generally considered acceptable if the L_{Aeq} noise level of the source, measured over a period of 15 minutes, does not exceed the background noise level by more than 5 dB. Intrusive noise levels are only applied to residential receivers. For other receiver types, only the amenity levels apply.
- To limit continual increases in noise levels from the use of the intrusiveness level alone, the ambient noise level within an area from all industrial sources should remain below the recommended amenity levels specified in the NPI for that particular land use.

4.1.2 Project specific noise criteria

The criteria for operational noise generated by the facility are provided in Table 2. The Project Noise Trigger Level (PNTL) is the lowest value of the intrusiveness or amenity noise level for each period and are shown as bold values within Table 2. For this assessment, the area surrounding the proposal is considered to be 'rural'.

Table 2 NPI noise criteria (rural amenity area)

Receiver	Assessment period	Noise level – dB(A)			
		Recommended amenity noise level $L_{eq\ (period)}$	Rating background noise level (RBL)(1)	Project noise trigger level (PNTL) $L_{eq\ (15minute)}$	
				Intrusiveness noise level	Project amenity noise level (2)(3)
Surrounding residences	Daytime	50	35	**40**	48
	Evening	45	30	**35**	43
	Night	40	30	**35**	38

(1) Actual RBLs are below assumed NPI minimums, therefore the NPI minimum RBLs have been adopted.

(2) The project amenity noise level is the Rural amenity noise level minus 5 dB(A) plus 3 dB(A) to convert from a period level to a 15-minute level.

(3) The PNTL is the lowest of the intrusiveness and project amenity noise levels within each assessment period and has been bolded.

4.1.3 Potential for sleep disturbance

In addition to the above, the NPI provides an assessment procedure for assessing the potential for sleep disturbances from maximum noise level events generated at the development during the night time period (i.e. between 10:00 pm and 7:00 am). The term “sleep disturbance” is considered to be both awakenings and disturbance to sleep stages.

As recommended in Section 2.5 of the NPI, to assess the potential for sleep disturbances two-stages are recommended to be carried out:

- Step 1 – Where the subject development/premises night-time noise levels at a residential location do not exceed the following then no mitigation is required to prevent sleep disturbances from the project:
  - $L_{Aeq,15min}$ 40 dB(A) or the prevailing RBL plus 5 dB, whichever is the greater, and/or
  - L_{AFmax} 52 dB(A) or the prevailing RBL plus 15 dB, whichever is greater,

From the above the average/maximum noise trigger levels have been determined for the Project and are presented below in Table 3. If the noise trigger levels are exceeded, then ‘Step 2’ which involves a detailed maximum noise level event assessment would be required.

Table 3 Sleep disturbance noise trigger levels

Receiver	Rating background noise level (night), $L_{90, (period)}$ dB(A)(1)	Sleep disturbance noise trigger levels, dB(A)	
		$L_{eq\ 15\ minute}$	L_{Fmax}
Surrounding residences	30	40	52

(1) Actual RBLs are below assumed NPI minimums, therefore the NPI minimum RBLs have been adopted.

- Step 2 – A detailed maximum noise level event assessment is to be undertaken when the average/maximum noise trigger levels are exceeded and should cover the maximum noise level, the extent the maximum noise levels exceeds the RBL, and the number of occurrences during the night time period. As is recommended in the explanatory notes of the NPI, this more detailed sleep disturbance assessment is conducted using the current sleep disturbance research detailed in the EPA Road Noise Policy (RNP). The RNP sleep disturbance research concludes that:
  - Maximum internal noise levels below 50-55dB(A) are unlikely to awaken people from sleep
  - One to two noise events per night with maximum internal noise levels of 60-75dB(A) are not likely to affect health and wellbeing significantly.

4.2 NSW Road Noise Policy

The NSW Road Noise Policy (RNP) provides guidance, criteria and procedures for assessing noise impacts from existing, new and redeveloped roads and traffic generating developments. The assessment of road traffic noise impacts on public roads is assessed under the RNP.

The RNP details a number of noise assessment criteria for various road categories and land uses. Road access to the facility will be via Bell Street and Turner Street, both roads would be classified as a local road by the RNP.

The Application Notes for the RNP states that:

> ‘For existing residences and other sensitive land uses affected by additional traffic on existing roads generated by land use developments, any increase in the total traffic noise level as a result of the development should be limited to 2 dB above that of the noise level without the development. This limit applies wherever the noise level without the development is within 2 dB of, or exceeds, the relevant day or night noise assessment criterion.’

If road traffic noise during the Project operation is within 2 dB(A) of current levels, then the objectives of the RNP are met and no specific mitigation measures are required. Where the road traffic noise during the Project operation levels exceeds 2 dB(A) of current levels than the consideration should be given to the actual noise levels associated with the Projects operation road traffic and whether or not these levels comply with the RNP criteria as presented in Table 4.

Table 4 RNP residential road traffic noise criteria

Road Category	Type of Project/Land Use	Assessment Criteria, dB(A)	
		Day 7:00 am – 10:00 pm	Night 10:00 pm – 7:00 am
Local roads	Existing residences affected by additional traffic on existing local roads generated by land use developments.	$L_{Aeq,\ (1\ hour)}$ 55 (external)[1]	$L_{Aeq,\ (1\ hour)}$ 50 (external)[1]

The assessment criteria for external noise levels apply at 1 metre from the facade of any affected residential receiver.

5 Operational Noise Assessment

Activities carried out at the Project may generate noise impacts at nearby sensitive receivers. This section details the assessment of the operational impacts from the new storage facility. Operational noise impacts predicted at nearest residential receivers have been assessed against the adopted noise criteria set out in Section 4.

5.1 Noise modelling

5.1.1 Noise assessment methodology

Potential operational noise impacts from the maintenance facility at surrounding receptors have been modelled using the CONCAWE algorithm within SoundPLAN v8.2. This method is commonly used and accepted by regulatory agencies in NSW.

Terrain has been based on 2 metres LIDAR scans of the area sourced from NSW Spatial Services. Noise sources and receivers have been based on aerial imagery sourced from Nearmap. Building footprints and heights have been based on a combination of aerial imagery, street level photography and site inspections. The parameters adopted in the noise modelling are presented in Table 5 below.

Table 5 Operational noise modelling parameters

Parameter	Input data
Buildings	• Footprints taken from aerial photography • Typical building heights have been estimated from Google Street-view and site inspections as follows: per floor 3 m, pitched roof 3 metre • Number of floors taken from Google Street-view and site inspections • Developments existing and proposed buildings have been incorporated from development plans
Terrain	2 metre ground contours from NSW Spatial Services.
Noise wall	Proposed 2.4 m fence (as discussed in Section 6) located at the western and northern boundary of the project site has been included in the noise model.
Ground surface / absorption	Ground coverage in the study area has been assumed to be hard (0 ground absorption) in the Storage Facility and soft (0.6 ground absorption) in the off-site environment.
Receivers	Surrounding buildings have been digitised into the model. Ground floor receivers have been placed at an elevation of 1.5 m and first floor receivers at an elevation of 4.5 m.
Sources	• Noise emission scenarios and sources associated with the storage facility based on the details in Section 5.1.2 and recommendations within Section 6. • The buildings within the project site have been digitised into the model. • All noise emitting equipment in each operational scenario has been modelled to operate simultaneously.
SoundPLAN module	CONCAWE industrial module
Noise contours	The noise contours height has been set at 1.5 metres.
Meteorological condition	Meteorological conditions for all periods. • Pasquill Category F • Worst case source to receiver distance at 2m/s • 70% relative humidity • 20˚C temperature

Parameter	Input data
	• 1013 mbar air pressure
Assessment	The assessment has been broken into two components: • L_{Aeq} assessment against NPI criteria to consider long term noise sources such as vehicle movements and use of the carpark. • L_{Amax} assessment to consider potential sleep disturbance impacts associated with short term noise sources from the use of the carpark.

5.1.2 Operational noise scenario and sources

Operational noise emissions from vehicle movements and the use of the car park expected at the storage facility have been assessed in accordance with the requirements of the NPI for the day (7am - 6pm), evening (6pm – 10pm) and night (10pm – 7am) assessment periods.

The operational noise scenarios and sources presented in Table 6 are based on previous project experience as well as the traffic generation data supplied by PSA consulting's traffic report (Revision: V2, dated 22 April 2021) for the development which was based on the proposed storage facilities size of GFA and a conservative assumption.

The assumed worse case operational noise scenarios for the NPI day, evening and night assessment periods are presented in Table 6 below for a given 15 minute period. The sound power levels for the noise sources were obtained from Resonate's database.

Table 6 Assumed typical operational scenarios

Activities	Individual sound power levels, dB(A)	Duration of activities	Number of activities		
			Day scenario	Evening scenario	Night scenario
Box truck (3-4.5 tonne) moving at 10km/hr around the facility	93	15 minutes	1	0	0
Car moving at 10km/hr around the facility	82	15 minutes	2	2	1
Car door closing	95	1 second	-		
Car engine starting	90	1 second	-		

5.2 Predicted operational noise levels

A summary of the predicted noise levels at the surrounding residences during the NPI assessment periods are presented in Table 7.

Table 7 Predicted operational noise levels from the operation of the new development

Receiver	Predicted L_{Aeq} operational noise level, dB(A)[1] Day / Evening / Night	Noise criteria, dB(A) Day / Evening / Night	Exceedance, dB(A) Day / Evening / Night	Compliance (Yes/No) Day / Evening / Night
2 Bell Street, Denman	38 / 29 / 26	40 / 35 / 35	- / - / -	Yes / Yes / Yes
12 Turner Street, Denman	37 / 29 / 26	40 / 35 / 35	- / - / -	Yes / Yes / Yes
14 Turner Street, Denman	38 / 27 / 24	40 / 35 / 35	- / - / -	Yes / Yes / Yes

(1) Predicted noise levels have been rounded off to the nearest 1 dB(A).

Based on the predicted operational noise levels presented in Table 7 the following have been assessed:

- Daytime operational scenario – operational noise levels comply with the day PNTL at all surrounding residential receivers.
- Evening operational scenario – operational noise levels comply with the evening PNTL at all surrounding residential receivers.
- Night-time operational scenario – operational noise levels comply with the night PNTL at all surrounding residential receivers.

5.3 Sleep disturbance impacts

The potential for sleep disturbances during the night period (i.e. between 10:00 pm and 7:00 am) from the operational noise level events generated at the development have been assessed in this section. The maximum noise level events from the proposed development are due to the use of the carpark (i.e. car door closing and car engine starting). In accordance with the NPI the relevant predicted noise levels have been first assessed against the average/maximum noise trigger levels to determine whether a detailed maximum noise level event assessment would be required, the results are presented in Table 8.

Table 8 Sleep disturbance noise trigger levels

Receiver	Predicted operational noise level, dB(A)[1] $L_{eq,\ 15\ minute}$ / L_{Fmax}	Sleep disturbance noise trigger levels, dB(A) $L_{eq,\ 15\ minute}$ / L_{Fmax}	Above Screening Level (Yes/No) $L_{eq,\ 15\ minute}$ / L_{Fmax}
2 Bell Street, Denman	26 / 60	40 / 52	No / Yes
12 Turner Street, Denman	26 / 56	40 / 52	No / Yes
14 Turner Street, Denman	24 / 54	40 / 52	No / Yes

(1) Predicted noise levels have been rounded off to the nearest 1 dB(A)

As shown above in Table 8 the maximum noise levels are predicted to exceed the screening trigger levels for sleep disturbance at the surrounding residences. The maximum noise levels result from a car engine starting, and a car door being closed loudly within the site. The RNP sleep disturbance research concludes that maximum internal noise levels below 50-55 dB(A) are unlikely to awaken people from sleep. An internal noise level of 50-55dB(A) would typically equate to an external noise level of 60-65 dB(A). The maximum noise level predicted is no more than 60 dB(A, it is also noted that no more than one car is expected to enter the premises per 15 minute period during the night time. Furthermore, noise controls have been recommended in Section 6 to prevent impacts from these noise sources impacting surrounding residence.

5.4 Noise from traffic generation

This section assesses noise impacts from the additional traffic due to the operation of the Project. PSA consulting's traffic report (Revision: V2, dated 22 April 2021) states the roads surrounding the site provide access to residential lots and recreation lots. Turner Street extends from Kenilworth Street in the north to the northern boundary of the site, and provides access to 8 residential houses. Bell Street in the south meets at a corner on the southern boundary of the site and provides access to residential, recreation and sporting land uses.

The traffic report states that the peak hour (AM & PM) traffic volume for the development will be up to 11 vehicle trips and that this figure has been based on the proposed storage facilities size of Gross Floor Area (GFA). It also notes that there are two entries to the site, one at Bell Street (South) and Turner Street (North) and vehicles are expected to be split equally between these entrances, also all vehicles will exit at the sole exit from Bell Street. However as stated in the recommendations within Section 6, trucks will need to be restricted from entering at Bell Street and should only enter from Turner Street then exit from Bell Street.

The worst case existing AM/PM peak vehicle trips have been assumed to be the following for both Turner Street and Bell Street:

- AM/PM Peak – 10 vehicle trips, which includes 2 heavy vehicle trips.

The anticipated noise level contribution of operational traffic on local roads has been assessed in Table 9 using the TfNSW Road Traffic Noise Estimator. Assessment has been based on assumed worse case existing traffic volumes and predicted worse case traffic volumes from the traffic report.

Table 9 Operational road traffic noise assessment

Location	Vehicle type	AM/PM Peak			
		Existing	Additional	Total AM/PM	Increase in total noise level – dB(A)
Turner Street (North)	Light vehicles	8	+10	18	2
	Heavy Vehicles	2	+1	3	
	Total	+10	+11	21	
Bell Street (South)	Light vehicles	8	+10	18	2
	Heavy Vehicles	2	+1	3	
	Total	+10	+11	21	

The table above presents the increase in noise levels due to additional vehicles on Bell Street and Turner Street from the operation of the Project. The increase in noise levels is predicted to be 2 dB(A) which is within the not more than 2 dB(A) increase allowance of the RNP and therefore no further assessment or mitigation measures are required.

5.5 Mechanical services noise

At this stage there is no mechanical services and external plant for the proposed development. If at a later stage of the development process some mechanical services or external plant is introduced, it is recommended that mechanical plant should be located to take advantage of acoustic shielding provided by the bulk of the built form and located away from the surrounding residences.

Mechanical services shall be designed such that they are compliant with the noise criteria as per the requirements of the NPI provided in Section 4.1.

6 Recommended Noise Control

Based on our assessment of the predicted exceedances at the nearby residential receivers the following reasonable and feasible noise management and control measures are recommended to be implemented to the operation of the storage facility:

- To mitigate noise to surrounding residences a 2.4 m high acoustic fence is recommended in the location shown in Figure 2 below. The fence should be constructed from a solid material with no gaps, for example profile steel sheet, or alternative material with a minimum surface mass of 8 kg/m^2.

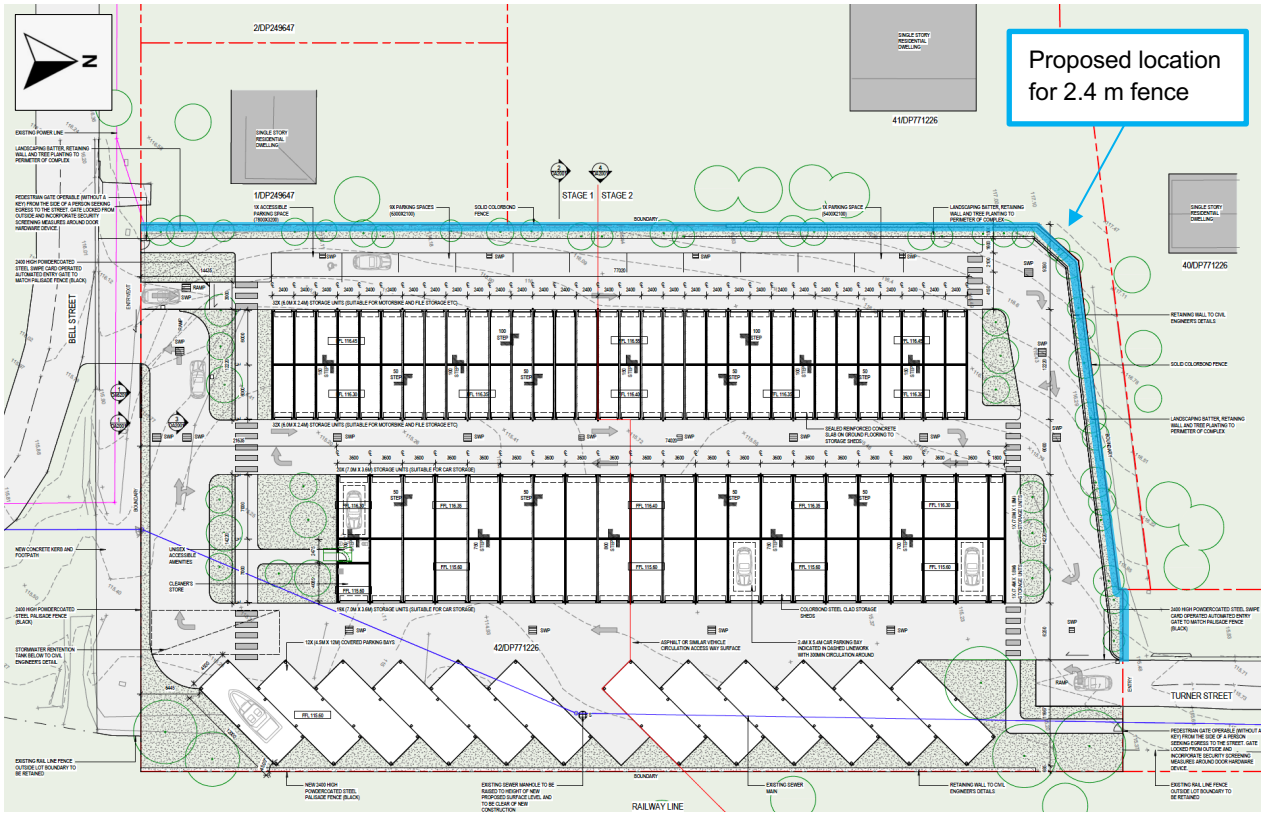

Figure 2 – Proposed location of acoustic fence

- Trucks larger than box trucks (3-4.5 tonne) are to be restricted from accessing the site.
- Permitted trucks are only to access the premises during the day period (i.e. 7am to 6pm).
- Permitted trucks would only enter the premises from Turner Street and exit from Bell Street. They may also travel along the middle internal road of the site but are restricted from access the western boundary of the site or entering from Bell Street.
- Traffic speed of 10km/h should be signposted within the facility. Expect all drivers to comply with the speed limit and to implement responsible driving within the facility to minimise noise associated with unnecessary acceleration and braking within the facility.
- Vehicles are not to be left idling when within the premises.
- Install signposts at the entrances and within the parking bays advising drivers to respect the neighbours and keep noise to a minimum within the premises this will include the advice to not leave vehicles idling and careful opening and closing of storage shed and vehicle doors.
- A mechanism for nearby receivers should be provided such that noise related issues can be fed back to the operator and the plan of management updated if required.

7 Conclusion

Resonate Consultants has conducted an environmental noise assessment of the proposed Denman Storage Shed Complex at Turner Street, Denman.

This assessment has demonstrated that the noise emissions from the typical operation of the development are predicted to comply with the relevant environmental noise criteria at all residences in the vicinity of the site provided that the recommendations in Section 6 are followed.

On this basis the proposed storage facility will be able to operate within the relevant noise provisions in the NSW EPA Noise Policy for Industry and the NSW Road Noise Policy.

Appendix A – Denman Storage Shed Complex Drawings by CM+

DENMAN STORAGE SHED COMPLEX

DA DOCUMENTATION - NOVEMBER 2022
FOR MUSWELLBROOK SHIRE COUNCIL

1 SITE PLAN
1 : 500

NOT FOR CONSTRUCTION

Document Notes

Verify all dimensions on site before commencing work. Report all discrepancies to the Architect Prior to construction. Use figured dimensions in preference to scaled dimensions. Drawings made to larger scales and those showing particular parts of the works take precedence over drawings made to smaller scales or for general purposes. All work is to conform to relevant Australian Standards and Codes together with all Authorities' requirements and Regulations.

REV	DATE	DESCRIPTION	APP
A	31/03/21	ISSUED FOR INFORMATION	MM
B	15/04/21	ISSUED FOR COORDINATION	MM
C	26/04/21	ISSUED FOR COORDINATION	MM
D	28/07/21	ISSUED FOR COORDINATION	MM
E	01/09/21	ISSUED FOR COORDINATION	MM
F	09/05/22	ISSUED FOR COORDINATION	AL
G	12/07/22	ISSUED FOR DA	AL
H	01/11/22	ISSUED FOR DA	AL

CLIENT:
muswellbrook shire council

ARCHITECT:
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N W E S

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SCALE: 1 : 500 @ A1

PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
COVER

SHEET NUMBER: **DA0000**
REV: **H**

PLOTTED: 1/11/2022 11:08:35 AM

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NOTES

GENERAL
ALL WORK SHALL BE CARRIED OUT USING NEW MATERIALS TO A FIRST CLASS QUALITY OF WORKMANSHIP AND IN ACCORDANCE WITH ALL RELEVANT REGULATIONS, BCA REQUIREMENTS, SAA CODES AND LOCAL AUTHORITY REQUIREMENTS.

DEMOLITION
COMPLETE ALL DEMOLITION REQUIRED TO COMPLETE THE WORKS. DEMOLITION TO BE CARRIED OUT AND REFUSE REMOVED WITH MINIMUM DISTURBANCE TO THE EXISTING DWELLING AND ADJOINING DWELLINGS. MAKE GOOD DISTURBED SURFACES AND STRUCTURE BEFORE COMMENCING NEW WORK. DEMOLITION TO BE CARRIED OUT IN ACCORDANCE WITH AS2601-2001.

CARPENTRY & JOINERY
ALL TIMBERS SHALL BE BEST QUALITY OF THEIR RESPECTIVE SELECTION AND GRADE CONFORMING WITH AS 1684 LIGHT TIMBER FRAMING CODE SPECIFICATION REQUIREMENTS. STRUCTURAL TIMBER SHALL BE MINIMUM F7 GRADE. FRAMING SHOWN IS INDICATIVE ONLY.

DAMP PROOFING, FLASHING & WATERPROOFING
INSTALL FLASHINGS, DRIPS, STORM MOLDS, WEATHER SEALS, CAULKING, POINTING, OR THE LIKE SO THAT WATER IS PREVENTED FROM ENTERING THE BUILDING. ALL WATERPROOFING TO BE IN ACCORDANCE WITH AS 3740. ALL WET AREAS TO BE EXAMINED AND CERTIFIED BY AN ACCREDITED CERTIFIER.

SMOKE ALARMS
SMOKE ALARMS TO BE PROVIDED IN ACCORDANCE WITH AS 3786-1993 AND PART 3.7.2 OF THE BCA

PLUMBING & DRAINAGE
WORK SHALL BE CARRIED OUT BY A LICENSED CONTRACTOR IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION OVER THE WORKS. CONNECT NEW BATHROOMS TO EXISTING SEWERAGE. CONNECT ALL NEW STORMWATER DRAIN POINTS TO EXISTING STORMWATER DRAINAGE. CONNECT ROOF CATCHMENT TO NEW RAINWATER TANK AND CONNECT TO PLUMBING TO WATER GARDENS; REFER HYDRAULIC DRAWINGS. TOILET CISTERNS TO BE WATER EFFICIENT DUAL FLUSH SYSTEMS AND PLUMBING FIXTURES TO BE WATER EFFICIENT TRIPLE A RATED. ALL NEW HOT WATER SERVICE PIPES TO BCA AND AS3500.

BRICKWORK
ALL BRICKWORK TO BE PERFECTLY LEVEL, STRAIGHT & PLUMB & PERFECTLY BONDED. BUILD IN ALL DPC'S, ARCH BARS, WALL TIES & THE LIKE. ALL WORK TO BE CARRIED OUT IN A SKILLFUL & WORKMANLIKE MANNER IN ACCORDANCE WITH BEST TRADE PRACTICE, & AS PER AUSTRALIAN STANDARDS.

STEELWORK
ALL STEELWORK TO BE IN ACCORDANCE WITH STRUCTURAL ENGINEERS PLANS & SPECIFICATION.

ELECTRICAL
WORK SHALL BE CARRIED OUT BY A LICENSED CONTRACTOR IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION OVER THE WORKS. SMOKE ALARMS ARE TO BE INSTALLED TO COMPLY WITH AS3786

PLASTERING & RENDERING
13MM STANDARD GRADE PLASTERBOARD TO ALL STUD WALLS, FIXED IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS. VILLABOARD TO WET AREAS.

BOUNDARIES
NO PORTION OF THE PROPOSED ALTERATIONS AND ADDITIONS, INCLUDING THE FOOTINGS AND ROOF EAVES, IS TO ENCROACH BEYOND THE BOUNDARIES OF THE SUBJECT PROPERTY.

STRUCTURE
ALL STRUCTURAL WORKS TO PRACTISING STRUCTURAL ENGINEER'S DETAILS AND SPECIFICATIONS. REFER ALL STRUCTURAL ENGINEER'S DETAILS PRIOR TO CONSTRUCTION.

EXISTING STRUCTURE
WHERE POSSIBLE EXISTING MATERIALS ARE TO BE RE-USED FOR THE PURPOSE OF NEW CONSTRUCTION AND WASTE MINIMISED GENERALLY.

WINDOWS & DOORS
ALL EXTERNAL DOORS AND WINDOWS ARE TO INCLUDE WEATHER-STRIPPING TO MANUFACTURER'S RECOMMENDATIONS AND/OR SPECIFICATION.

TERMITE CONTROL
ALL TERMITE CONTROL TO BE PROVIDED TO COMPLY WITH BCA AND COUNCIL REQUIREMENTS.

BASIX COMMENTS
LIGHT FITTINGS:
A MINIMUM OF 40% OF NEW OR ALTERED LIGHT FITTINGS ARE TO BE FITTED WITH FLUORESCENT, COMPACT FLUORESCENT OR LED LAMPS.
WATER FIXTURES:
NEW OR ALTERED SHOWER HEADS MUST HAVE A FLOW RATE OF NO GREATER THAN 9L/ MINUTE OR A 3 STAR WATER RATING.
NEW OR ALTERED TOILETS MUST HAVE A FLOW RATE OF NO GREATER THAN 4L/ AVERAGE FLUSH OR A MINIMUM 3 STAR WATER RATING.NEW OR ALTERED TAPS MUST HAVE A FLOW RATE OF NO GREATER THAN 9L/ MINUTE OR A MINIMUM 3 STAR WATER RATING.
THERMAL INSULATION:
N/A.
GLAZING:
STANDARD ALUMINIUM, SINGLE CLEAR, (U-VALUE: 7.63, SHGC: 0.75)AND;STANDARD ALUMINIUM, SINGLE PYROLYTIC LOW E, (U-VALUE: 5.7, SHGC: 0.47)AND;IMPROVED ALUMINIUM, TONED/AIR GAP/ CLEAR, (OR U-VALUE: 4.09, SHGC: 0.47)
SKYLIGHTS:
N/A

JOINERY NOTES
TYPICALLY ALL INTERNAL CARCASSES & SHELVES TO BE 18mm HMR BOARD WITH WHITE MELAMINE FINISH.
ROBE HANGING RAILS TO BE PROPRIETARY 30mm DIAMETER CHROME PLATED TUBULAR RAIL WITH PROPRIETARY FIXING TO ROBE CARCAS.ALL JOINERY TO BE SITE MEASURED AND CUSTOM BUILT TO SUIT EXACT DIMENSIONS.ALL JOINERY DOORS TO BE 18mm MDF WITH SELECTED FINISH APPIED TO ALL FACES DOOR HARDWARE: MADINOZ STAINLESS STEEL D PULL HANDLES (MDZ100F).

ABBREVIATIONS

AG	ACCESS GRATE
AC	AIR CONDITIONING
AL	ALUMINIUM
AFFL	ABOVE FINISHED FLOOR LEVEL
ADJ	ADJUSTABLE SHELF
AW	ARTWORK
AHD	AUSTRALIAN HEIGHT DATUM
AS	AUSTRALIAN STANDARDS
BSN	BASIN
BBQ	BARBEQUE
BTH	BATH
BW	BASIN/BATH WASTE
BID	BIDET
BIN	BIN
BDY	BOUNDARY
BT	BOTTLE TRAP
BG	BOX GUTTER
BB	BULLETIN BOARD
CH	CONCEALED HINGE
CPT	CARPET
CR	CEMENT RENDER
CT	CERAMIC TILE
CF	CEILING FAN
COS	CHECK ON SITE
CIS	CISTERN
CFC	COMPRESSED FIBRE CEMENT
C	CONCRETE
CC	CHIMNEY COWL
CP	CONCRETE PAVER
CJ	CONTROL JOINT
CTP	COOKTOP
CPD	CUPBOARD
DW	DISHWASHER
DIV	DIVERTOR
D	DOOR
DS	DOOR STOP
DP	DOWN PIPE
DWR	DRAWER
DG	DRIP GROOVE
EP	EDGE PULL
EX	EXISTING
EG	EAVES GUTTER
FB	FACE BRICKWORK
FCL	FINISHED CEILING LEVEL
FFL	FINISHED FLOOR LEVEL
FSL	FINISHED STRUCTURE LEVEL
FP	FIREPLACE
FS	FIXED SHELF
FW	FLOOR WASTE
FLB	FLUSH BUTTON
FPL	FLUSH PULL
FG	FRAMELESS GLASS
FR	FRIDGE
G	GATE
GM	GAS METER
GD	GRATED DRAIN
GR	GRILLE
H	HANDLE
HK	ROBE HOOK
HM	HIT + MISS BRICKWORK
HR	HANDRAIL
HWS	HOT WATER SYSTEM
IM	ICE MAKER
J	JOINERY FINISH
JN	JOINERY TO DETAIL
L	LIGHT
LVR	DOOR LEVER
MW	MICROWAVE OVEN
MR	MIRROR
MIX	MIXER
MS	METAL SHEET
N	NEW
OF	OVERFLOW OUTLET
OSD	ON SITE DETENTION
OV	OVEN
PFT	PAINT FINISH TYPE
PIT	STORMWATER PIT
PB	PEBBLE BALLAST
PBD	PLASTERBOARD
PV	PHOTO-VOLTAIC PANEL
PC	PUSH CATCH
PL	DOOR PULL
PAN	TOILET PAN
RC	ROOF COWL
RH	RANGEHOOD
RL	REDUCED LEVEL
RWO	ROOF WATER OUTLET
SJ	SAWN JOINT
SB	SKIMMER BOX
SEW	SEWER DRAINAGE PIPE
SIM	SIMILAR
SNK	SINK
SH	SHOWER HEAD
SK	SKYLIGHT
SPH	SOLAR POOL HEATING
SPT	SPOUT
SS	STAINLESS STEEL
SC	STEEL COLUMN
ST	STONE
STM	STEAMER
SW	STORMWATER
SHS	SQUARE HOLLOW SECTION
TV	TELEVISION
TCF	TENNIS COURT FENCE
TCS	TENNIS COURT SURFACE
TB	TIMBER
TC	TIMBER CLADDING
TD	TIMBER DECKING
TF	TIMBER FLOOR
TS	TIMBER SHINGLES
TBH	TOILET BRUSH HOLDER
TPH	TOILET PAPER HOLDER
TG	TONGUE AND GROOVE TIMBER
TR	TOWEL RAIL
TPZ	TREE PROTECTION ZONE
TT	VEHICLE TURNTABLE
TUB	TUB
TVM	TELEVISION MOUNT
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VB	VILLABOARD
VP	VENT PIPE
WC	WATER CLOSET
W	WINDOW
WM	WATER METER
ZIP	ZIP HEATER

DRAWING LIST

DRAWING NO.	DRAWING NAME	REVISION
DA0000	COVER	H
DA0001	DRAWING LIST AND NOTES	H
DA0101	EXISTING AND DEMOLITION - PLAN - GROUND LEVEL	I
DA1001	PLAN - GROUND LEVEL	I
DA1011	PLAN - ROOF LEVEL	I
DA2001	ELEVATIONS AND SECTIONS	H
DA6001	SCHEDULE - FINISHES	G
DA6101	SCHEDULE - FIXTURES	G
DA6201	SCHEDULE - SIGNAGE	F
DA7001	MATERIALS BOARD	F
DA9001	PERSPECTIVE - SHEET 1	F
DA9002	PERSPECTIVE - SHEET 2	D
DA9003	PERSPECTIVE - SHEET 3	D

DEVELOPMENT TABLE

CLASSIFICATION	7B (STORAGE UNITS)
RISE IN STOREYS	ONE (1)
TYPE OF CONSTRUCTION	TYPE C (LEAST FIRE RESISTANT)
SITE DEVELOPMENT AREA	6,432 SQM
LANDSCAPE AREA	943 SQM
BUILDNG AREA	1,994 SQM
FSR	0.31

Document Notes
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E	01/09/21	ISSUED FOR COORDINATION	MM
F	09/05/22	ISSUED FOR COORDINATION	AL
G	12/07/22	ISSUED FOR DA	AL
H	01/11/22	ISSUED FOR DA	AL

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Bill Morrison NSW ARB No 2447

PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
DRAWING LIST AND NOTES

SHEET NUMBER: **DA0001**
REV: **H**

PLOTTED: 1/11/2022 11:08:36 AM

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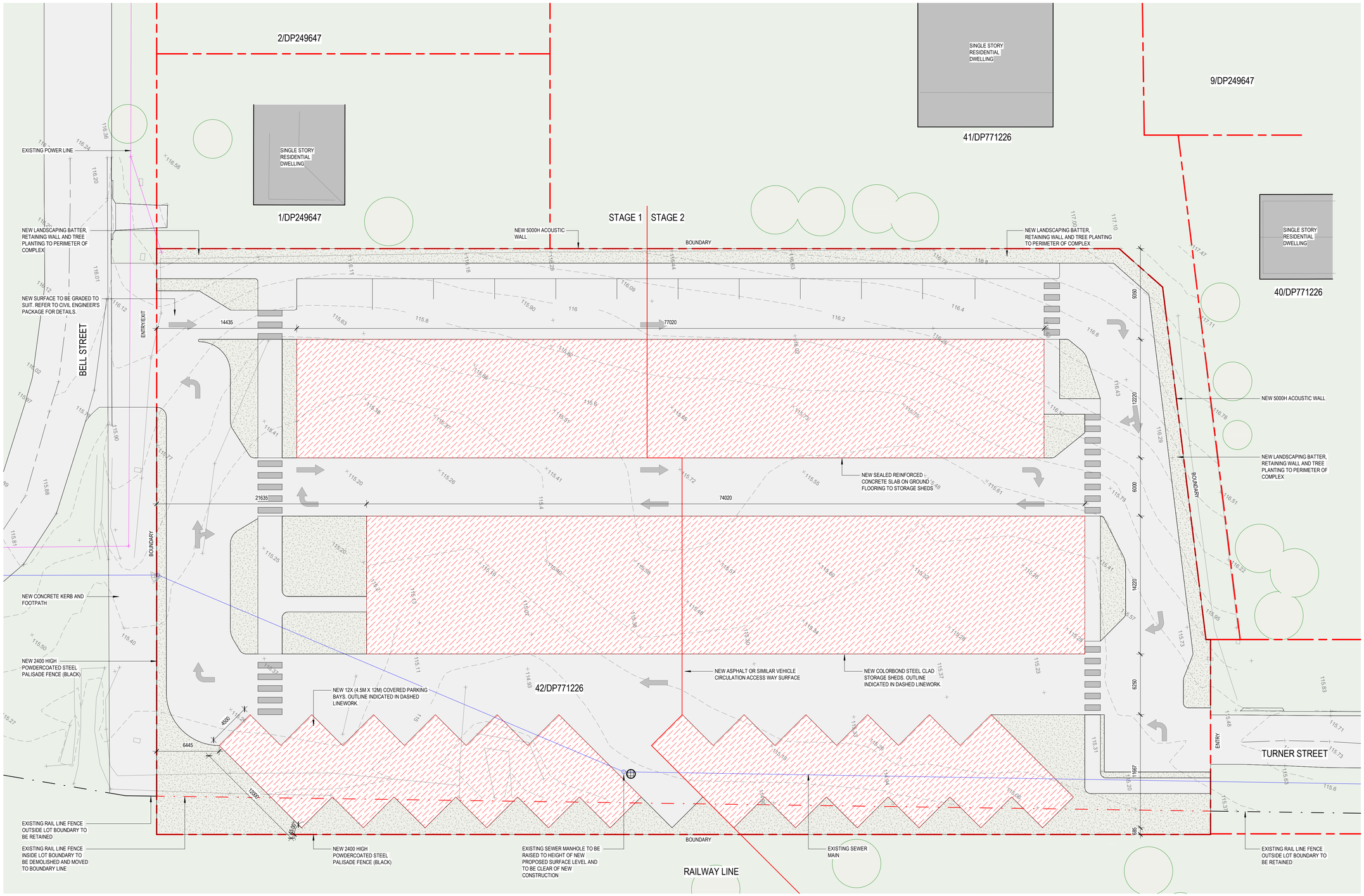

1 EXISTING/DEMOLITION - PLAN - GROUND LEVEL
1 : 200

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E	01/09/21	ISSUED FOR COORDINATION	MM
F	10/03/22	ISSUED FOR COORDINATION	AL
G	09/05/22	ISSUED FOR COORDINATION	AL
H	12/07/22	ISSUED FOR DA	AL
I	01/11/22	ISSUED FOR DA	AL

WALL LEGEND

CONCRETE WORK — EXISTING ELEMENT
BRICKWORK — DEMOLISHED ELEMENT
BLOCKWORK

DEMOLITION NOTES

VERIFY ALL EXISTING CONDITIONS ON SITE PRIOR TO COMMENCING. NOTIFY ARCHITECT IF SITE CONDITIONS VARY FROM DRAWINGS.

ALL EFFORTS HAVE BEEN MADE TO NOTE PRINCIPLE DEMOLITION REQUIREMENTS / WORKS. WHERE THE CONTRACTOR REQUIRES ADDITIONAL WORKS TO BE DEMOLISHED TO ENABLE CONSTRUCTION OF THE NEW WORKS OR WORKS RESULTING IN THE DEMOLITION PROCESS, THE CONTRACTOR SHALL ALLOW FOR SUCH WORKS AS REQUIRED TO COMPLETE THE WORKS.

IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THE WORKS ARE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES, APPROVED BUILDING PRACTICES AND ALL RELEVANT LEGISLATION

REFER TO SURVEY PLAN FOR EXISTING SITE CONDITIONS.

READ DEMOLITION DRAWINGS IN CONJUNCTION WITH STRUCTURAL ENGINEERS DRAWINGS AND SPECIFICATIONS.

REFER TO SERVICES DRAWINGS FOR THE EXTENT OF ELECTRICAL, MECHANICAL AND HYDRAULIC SERVICES RELOCATION, DISCONNECTION AND REMOVAL. CONTRACTOR TO ENSURE ALL SERVICES TO BE TERMINATED OR DETERMINED BY DEMOLITION WORKS, PLACE WARNERS TO INDICATE LOCATION OF DISCONNECTED SERVICES.

ALLOW FOR DRILLING CUTTING OF CORE HOLES AND SERVICES PENETRATIONS FOR ALL NEW SERVICES THROUGH EXISTING BUILDING ELEMENTS AS REQUIRED BY SERVICES ENGINEERING DOCUMENTATION.

THE CONTRACTOR IS RESPONSIBLE FOR MANAGING ALL MATERIAL LOADING & UNLOADING ON SITE RELATING TO THE DEMOLITION WORKS.

IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR AND MAKE GOOD WATERPROOFING DISTURBED BY DEMOLITION WORKS AND MARRY IN AND MAKE GOOD WITH THE NEW WORK.

PROVIDE AND MAINTAIN HOARDING, BARRICADES, LIGHTING AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS. COMPLY WITH ALL REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND THE ENVIRONMENT

LEAVE CONTRACT AREAS AND SITE CLEAN, ORDERLY AND ACCEPTABLE FOR NEW CONSTRUCTION. ALL SURFACES TO BE LEFT IN GOOD ORDER, MAKE GOOD AND PROFESSIONALLY REPAIR ALL HOLES WEATHER TIGHT AND TO EQUIVALENT FIRE RATING OF SURROUNDING CONSTRUCTION AS REQUIRED.

PREVENT MOVEMENT OR SETTLEMENT OF STRUCTURE(S) PROVIDE AND PLACE BRACING OR SHORING IN ACCORDANCE WITH STRUCTURAL ENGINEER'S DETAILS AND BE RESPONSIBLE FOR SAFETY AND SUPPORT OF STRUCTURE DURING THE WORKS. ASSUME LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE OR INJURY.

THE CONTRACTOR IS TO ALLOW FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLISHED MATERIALS, DEBRIS, REFUSE AND RUBBISH ASSOCIATED WITH THE DEMOLITION WORKS.

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Bill Morrison NSW ARB No 2447

SCALE 1:200
SCALE: 1 : 200 @ A1

PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
EXISTING AND DEMOLITION - PLAN - GROUND LEVEL

SHEET NUMBER: **DA0101**
REV: **I**

PLOTTED: 1/11/2022 11:08:56 AM

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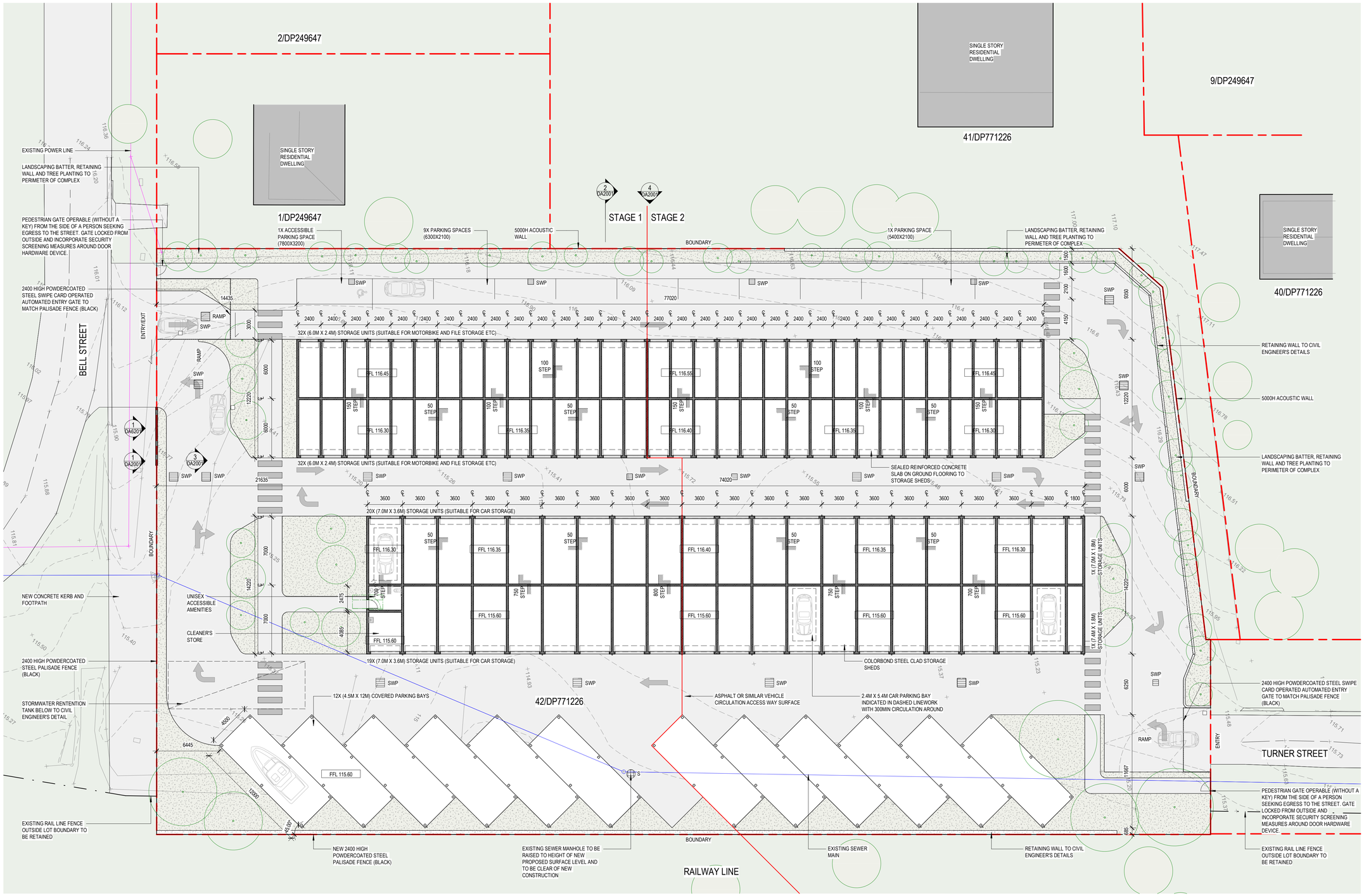

1 PLAN - GROUND LEVEL
1 : 200

ABBREVIATIONS

S SEWER PIT
SWP STORMWATER PIT

NOTES

REFER TO CIVIL ENGINEERING DESIGN FOR ALL STORMWATER MANAGEMENT DETAILS.
REFER TO LANDSCAPE ARCHITECTURE PACKAGE FOR SPECIFICATION OF SOFT LANDSCAPING.

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D	28/07/21	ISSUED FOR COORDINATION	MM
E	01/09/21	ISSUED FOR COORDINATION	MM
F	10/03/22	ISSUED FOR COORDINATION	AL
G	09/05/22	ISSUED FOR COORDINATION	AL
H	12/07/22	ISSUED FOR DA	AL
I	01/11/22	ISSUED FOR DA	AL

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0 SCALE 1:200 8
SCALE: As indicated @ A1

PROJECT:
20034
DENMAN STORAGE SHED COMPLEX
TURNER STREET, DENMAN, NSW

DRAWING TITLE:
PLAN - GROUND LEVEL

SHEET NUMBER: **DA1001**
REV: **I**

PLOTTED: 1/11/2022 11:10:31 AM

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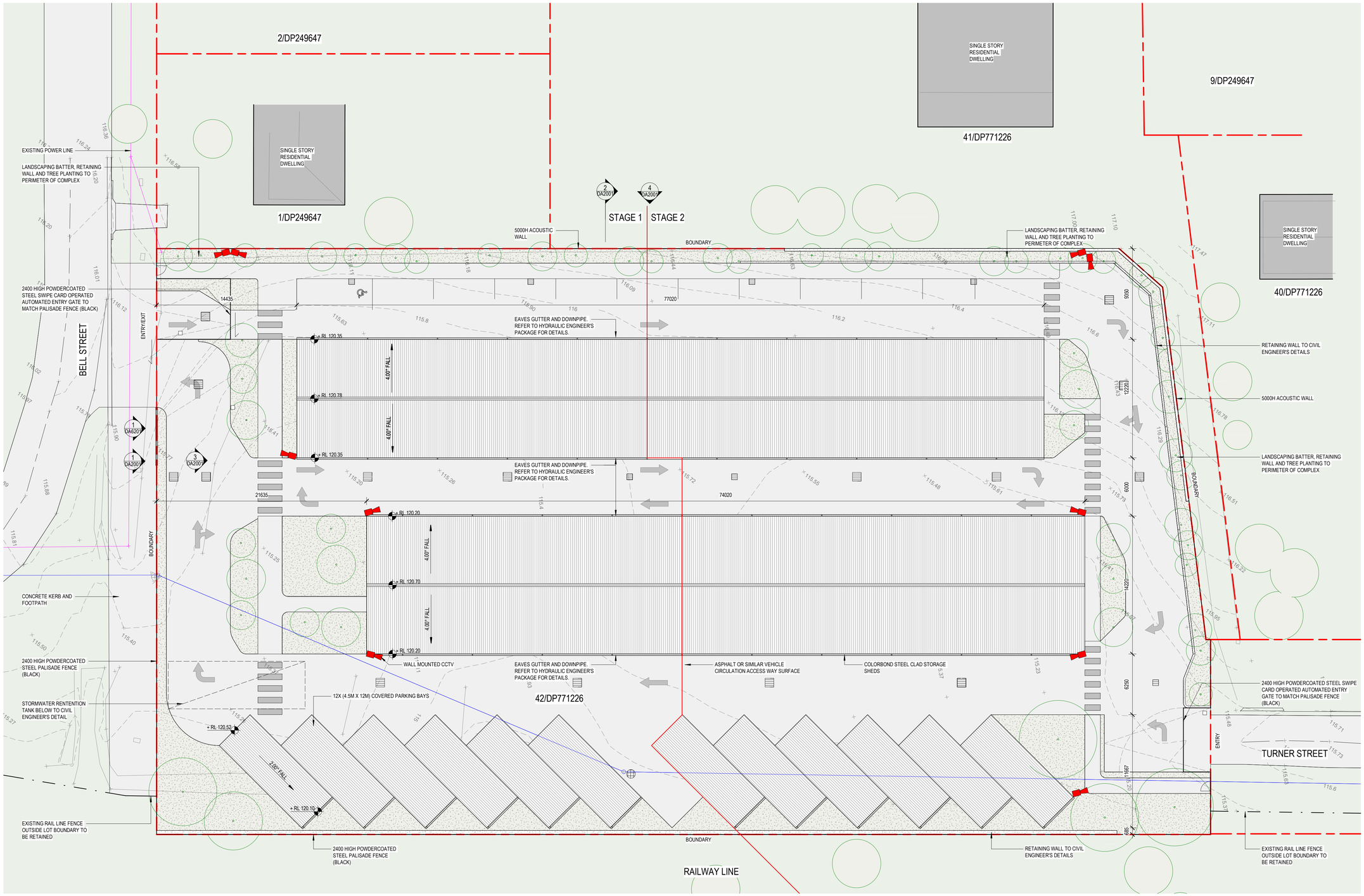

1 PLAN - ROOF LEVEL
1 : 200

ABBREVIATIONS

S	SEWER PIT
SWP	STORMWATER PIT

NOTES

REFER TO CIVIL ENGINEERING DESIGN FOR ALL STORMWATER MANAGEMENT DETAILS.
REFER TO LANDSCAPE ARCHITECTURE PACKAGE FOR SPECIFICATION OF SOFT LANDSCAPING.

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F	10/03/22	ISSUED FOR COORDINATION	AL
G	09/05/22	ISSUED FOR COORDINATION	AL
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I	01/11/22	ISSUED FOR DA	AL

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SCALE: As indicated @ A1

PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
PLAN - ROOF LEVEL

SHEET NUMBER: **DA1011**
REV: **I**

PLOTTED: 1/11/2022 11:12:05 AM

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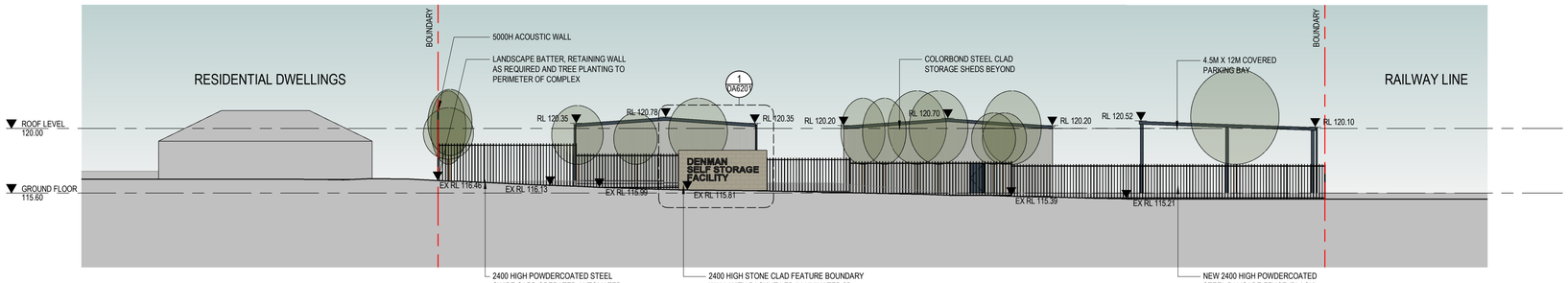
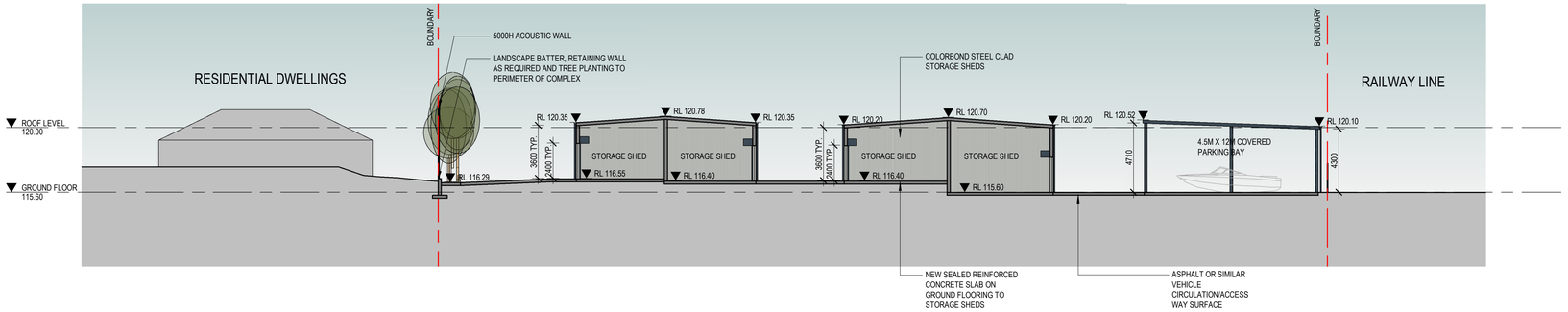


1 DA1001 BELL STREET ELEVATION
1 : 200



2 DA1001 SITE CROSS SECTION
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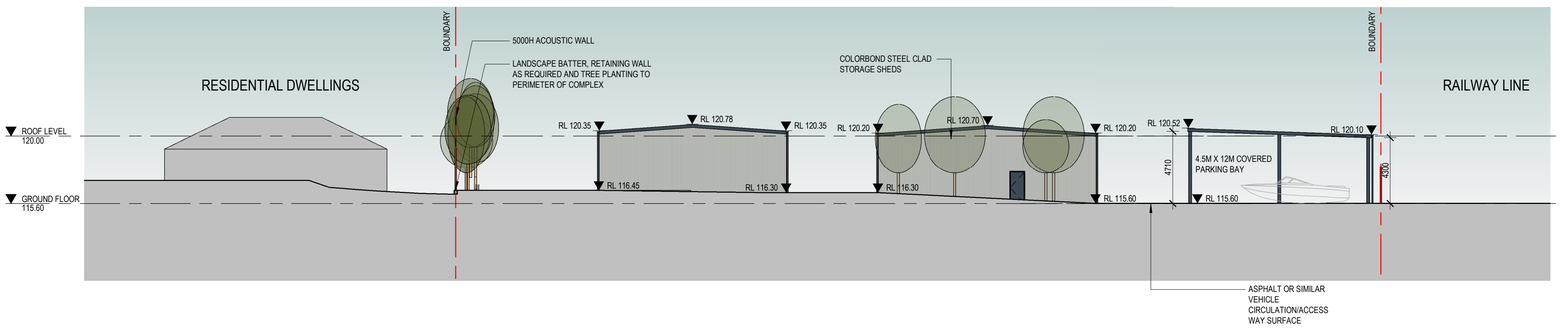

3 DA1001 TYPICAL SHORT ELEVATION
1 : 200

4 DA1001 TYPICAL LONG ELEVATION
1 : 200

NOTES

REFER TO CIVIL ENGINEERING DESIGN FOR ALL STORMWATER MANAGEMENT DETAILS.
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SCALE: As indicated @ A1

PROJECT:
20034
DENMAN STORAGE SHED COMPLEX
TURNER STREET, DENMAN, NSW

DRAWING TITLE:
ELEVATIONS AND SECTIONS

SHEET NUMBER: **DA2001**
REV: **H**

PLOTTED: 1/11/2022 11:12:24 AM

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FINISHES SCHEDULE

ELEMENT CODE	ELEMENT	DESCIPTION	SUPPLIER	MODEL/PRODUCT	COLOUR/CODE	FINISH	IMAGE
EXTERNAL FINISHES							
-	PALISADE FENCE	P AND C FENCING PALISADE FENCING. PROPRIETARY STEEL PALISADE FENCE. VERTICAL STEEL PALES ATTACHED TO HORIZONTAL STEEL RAILS AND FIXED TO STRUCTURAL GRADE POSTS. HOT DIPPED GALVANIZED STEEL WITH POWDER COATED FINISH.	P AND C FENCING	PALISADE FENCING	DULUX COLORBOND MONUMENT C29	MATT	
-	COLORBOND FENCE	SOLID COLORBOND SHEET FENCE. COLORBOND STEEL SHEET ATTACHED TO HORIZONTAL STEEL RAILS AND FIXED TO STRUCTURAL GRADE POSTS. HOT DIPPED GALVANIZED STEEL WITH POWDER COATED FINISH.	LYSAGHT	CUSTOM ORB (OR APPROVED EQUIVALENT)	COLORBOND MONUMENT	MATT	
FLOORS							
-	CONCRETE FLOOR	CONCRETE FLOOR SLAB. WOOD FLOAT FINISH R13 SLIP RESISTANCE. P3/R10 SLIP RATING REQUIRED FOR WET AREAS OF PUBLIC BUILDINGS. AS PER NCC, AS 4586 AND SA HB 198 REQUIREMENTS.	BY CONTRACTOR	BY CONTRACTOR	NATURAL CONCRETE	WOOD FLOAT	
WALLS							
-	METAL WALL CLADDING	PRE-FINISHED PROFILED METAL WALL CLADDING. LYSAGHT CUSTOM ORB (OR APPROVED EQUIVALENT) ORIENTATION: VERTICAL	LYSAGHT	CUSTOM ORB (OR APPROVED EQUIVALENT)	COLORBOND SHALE GREY	MATT	
ROOF							
-	ROOF CLADDING	PRE-FINISHED PROFILED METAL ROOF CLADDING. LYSAGHT KLIP-LOK (OR APPROVED EQUIVALENT)	LYSAGHT	KLIP-LOK CLASSIC 700 (OR APPROVED EQUIVALENT)	COLORBOND SHALE GREY	MATT	
-	SOFFIT LINING	PRE-FINISHED PROFILED METAL SOFFIT LINING. LYSAGHT CUSTOM ORB (OR APPROVED EQUIVALENT) ORIENTATION: VERTICAL	LYSAGHT	CUSTOM ORB (OR APPROVED EQUIVALENT)	COLORBOND SHALE GREY	MATT	
-	FASCIA	COLORBOND STEEL FASCIA PLATE.	LYSAGHT	NOVALINE (OR APPROVED EQUIVALENT)	COLORBOND DEEP OCEAN	CLASSIC	
-	DOWNPIPE	COLORBOND STEEL DOWNPIPE. SIZE AND SPECIFICATION TO HYDRAULIC ENGINEER'S DETAIL.	BY CONTRACTOR	BY CONTRACTOR	COLORBOND DEEP OCEAN	CLASSIC	
-	COLUMN	GALVANISED STEEL COLUMN SIZE AND SPECIFICATION TO STRUCTURAL ENGINEER'S DETAIL.	BY CONTRACTOR	BY CONTRACTOR	DULUX COLORBOND DEEP OCEAN C24	DULUX WEATHERMAX HBR	
DOORS							
-	SOLID CORE TIMBER DOOR	ALUMINIUM FRAMED SOLID CORE TIMBER LEAF WITH PAINT GRADE PLY FACING.	BY CONTRACTOR	BY CONTRACTOR	FRAME: DULUX COLORBOND DEEP OCEAN C24 LEAF: DULUX COLORBOND DEEP OCEAN C24	DULUX AQUANAMEL SEMI GLOSS	
-	ROLLER SHUTTER	PRE-FINISHED STEEL SECURITY ROLLER DOOR.	ROLLASHIELD SHUTTERS	COMMERCIAL FORCESHIELD SECURITY ROLLER SHUTTER (OR APPROVED EQUIVALENT)	DULUX COLORBOND DEEP OCEAN C24	DULUX AQUANAMEL SEMI GLOSS	
INTERNAL FINISHES							
FLOORS							
-	CONCRETE FLOOR	CONCRETE FLOOR SLAB. WOOD FLOAT FINISH R13 SLIP RESISTANCE. P3/R10 SLIP RATING REQUIRED FOR WET AREAS OF PUBLIC BUILDINGS. AS PER NCC, AS 4586 AND SA HB 198 REQUIREMENTS.	BY CONTRACTOR	BY CONTRACTOR	NATURAL CONCRETE	WOOD FLOAT	
WALLS							
-	METAL WALL CLADDING	PRE-FINISHED PROFILED METAL SOFFIT LINING. LYSAGHT CUSTOM ORB (OR APPROVED EQUIVALENT) ORIENTATION: VERTICAL	LYSAGHT	CUSTOM ORB (OR APPROVED EQUIVALENT)	COLORBOND SHALE GREY	MATT	

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E	09/05/22	ISSUED FOR COORDINATION	AL
F	12/07/22	ISSUED FOR DA	AL
G	01/11/22	ISSUED FOR DA	AL

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Bill Morrison NSW ARB No 2447

PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
SCHEDULE - FINISHES

SHEET NUMBER: **DA6001**
REV: **G**

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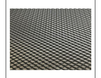
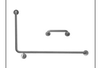
FIXTURES...

ELEMENT CODE	ELEMENT	DESCIPTION	SUPPLIER	MODEL/PRODUCT	COLOUR/CODE	FINISH	IMAGE
EXTERNAL FIXTURES							
DOORS							
-	DOOR HANDLE (ACCESSIBLE WC)	DDA COMPLIANT HANDLE - EXTERNAL PLATE WITH INDICATOR & EMERGENCY TURN (RH)	LOCKWOOD	LOCKWOOD 1814/70SC (OR APRROVED EQUIVALENT)	1814/70SC	SATIN STAINLESS STEEL	
ROOF							
-	LEAF GUARD	GUMLEAF 1200MM COLORBOND METAL CORRUGATED GUTTER GUARD - MONUMENT. GUTTER GUARD WITH A 4MM SIZE HOLE.	GUMLEAF GUTTER PROTECTION	MONUMENT CORRUGATED (OR APPROVED EQUIVALENT)	MONUMENT 3041642	MONUMENT	
-	LADDER ACCESS BRACKET	ANKAME 525 X 525 X 80MM LADDER ACCESS BRACKET	ANKAME	ANKAME LADDER ACCESS BRACKET (OR APPROVED EQUIVALENT)	R LADD1-4	ALUMINIUM, LINISH FINISH	
-	ROOF SAFETY LINE	CLASSIC - SAFETYLINK SURFACE MOUNTED ROOF ANCHOR PRODUCT CODE: HSURF001 - STAINLESS STEEL BASE PLATE	SAFETYLINK	CLASSIC - SAFETYLINK SURFACE MOUNTED ROOF ANCHOR (OR APPROVED EQUIVALENT)	HSURF001	STAINLESS STEEL	
INTERNAL FIXTURES							
AMENITIES							
-	ACCESSIBLE TOILET SUITE	BRITEX S.S. ACCESSIBLE CENTURION TOILET SUITE. 4* WELS RATING AND WATERMARK CERTIFIED. P TRAP PAN TO HAVE 14MM SAFETY RADIUS FRONT EDGE AND 2 X SIDE ACCESS PANELS. FULLY SHROUDED TO REAR WALL AND DOUBLE-SKINNED CISTERN CASE WITH RAISED BUTTONS. COMPLETE WITH FITTED TOILET SEAT, CODE SVRC-B. AS1428 COMPLIANT - PRODUCT CODE PTSDCP	BRITEX	ACCESSIBLE TOILET SUITE (OR APPROVED EQUIVALENT)	PTSDCP	STAINLESS STEEL	
-	TOILET SEAT	BRITEX BLACK VANDAL RESISTANT CLOSED FRONT TOILET SEAT - PRODUCT CODE SVRC-B	BRITEX	BLACK VANDAL RESISTANT CLOSED FRONT TOILET SEAT (OR APPROVED EQUIVALENT)	SVRC-B	BLACK	
-	GRAB RAIL - SIDE WALL	BTR-01-016: S.S. 90˚ FLUSH MOUNT SIDE WALL & CISTERN GRAB RAIL SET RHS - INCLUDES 300MM RAIL.	BRITEX	S.S. RHS 90˚ FLUSH MOUNT SIDE WALL & CISTERN GRAB RAIL SET (OR APPROVED EQUIVALENT)	BTR-01-016	GRADE 304 STAINLESS STEEL	
-	GRAB RAIL - CISTERN	BTR-01-016: S.S. 90˚ FLUSH MOUNT SIDE WALL & CISTERN GRAB RAIL SET RHS - INCLUDES 300MM RAIL.	BRITEX	S.S. RHS 90˚ FLUSH MOUNT SIDE WALL & CISTERN GRAB RAIL SET (OR APPROVED EQUIVALENT)	BTR-01-016	GRADE 304 STAINLESS STEEL	
-	TOILET ROLL HOLDER	BRITEX S.S. CONTOUR DOUBLE ROLL TOILET PAPER DISPENSER. AS1428 COMPLIANT - PRODUCT CODE BTX-06-060	BRITEX	S.S. CONTOUR DOUBLE ROLL TOILET PAPER DISPENSER (OR APPROVED EQUIVALENT)	BTX-06-060	GRADE 304 STAINLESS STEEL	
-	SANITARY BIN	ASI JD MACDONALD SURFACE MOUNTED SANITARY WASTE BIN. LID IS DRAWN ONE-PIECE CONSTRUCTION AND IS SECURED TO THE CABINET WITH A HEAVYDUTY 3.5 MM MULTI-STAKED CONCEALED PIANO HINGE. RECEPTACLE BODY IS FORMED SEAMLESS AND HAS A BOWED FACE AND GENTLY RADIUSSED FRONT VERTICLE EDGES. SATIN FINISH WITH A WASTE CAPACITY OF 3.8 L.	ASI JD MACDONALD	SURFACE MOUNTED SANITARY WASTE BIN	10-20852	SATIN STAINLESS STEEL	
-	ACCESSIBLE BASIN	BRITEX S.S. ACCESSIBLE HAND BASIN - 445 X 470 X 380D O/A. SUPPLIED WITH ROLLED SAFETY FASCIA, ACCESS PANEL, MOUNTING BRACKET AND 40MM WASTE OUTLET. AS1428 COMPLIANT - PRODUCT CODE HBDA-TW-9103	BRITEX	ACCESSIBLE HAND BASIN (OR APPROVED EQUIVALENT)	HBDA-TW-9103	STAINLESS STEEL	
-	ACCESSIBLE PILLAR TAP	BRITEX HOB MOUNTED TIMED FLOW LEVER PILLAR TAP - PRODUCT CODE TW-9103	BRITEX	TIMED FLOW LEVER PILLAR TAP (OR APPROVED EQUIVALENT)	TW-9103	CHROME	
-	MIRROR	BRITEX POLISHED S.S. MIRROR 450MM X 1000MM (ACCESSIBLE COMPLIANT) - PRODUCT CODE BTX-07-032	BRITEX	POLISHED S.S. MIRROR-BTX-07-032: 450MM X 1000MM (ACCESSIBLE COMPLIANT) (OR APPROVED EQUIVALENT)	BTX-07-032	GRADE 304 STAINLESS STEEL	
-	SOAP DISPENSER	BRITEX VERTICAL LIQUID SOAP DISPENSER S.S. W STANDARD NOZZLE - PRODUCT CODE BTX-05-023	BRITEX	VERTICAL LIQUID SOAP DISPENSER S.S - STANDARD NOZZLE	BTX-05-023	SATIN STAINLESS STEEL	
-	COAT HOOK	BRITEX DIE CAST ZINC HOOK WITH RUBBER BUMPER 73X18X93MM - PRODUCT CODE BTX-10-036	BRITEX	DIE CAST ZINC HOOK WITH RUBBER BUMPER (OR APPROVED EQUIVALENT)	BTX-10-036	BRUSH NICKEL - STAINLESS LOOK	
-	FLOOR WASTE	ALLPROOF INDUSTRIES CHROME ON BRASS TILE GRATES. CHROME ON BRASS, SQUARE OPTIONS, 100MM, COMPATIBLE WITH LEAK CONTROL FLANGE, CYCLONE AND REVOLVER	ALLPROOF INDUSTRIES	CHROME ON BRASS TILE GRATES	168.100SCPT	CHROME ON BRASS	
-	DOOR HANDLE (ACCESSIBLE WC)	DDA COMPLIANT HANDLE - INTERNAL PLATE WITH INDICATOR & DDA COMPLIANT (RH)	LOCKWOOD	LOCKWOOD 1941/70SC (OR APPROVED EQUIVALENT)	1941/70SC	SATIN STAINLESS STEEL	
CLEANER'S STORE							
-	CLEANER'S SINK	BRITEX CLEANER'S SINK - 600X500X250MM DEEP. 46L BOWL CAPACITY. SUPPLIED WITH STAINLESS STEEL BUCKET GRATE, WALL BRACKETS ONLY AND 50MM WASTE OUTLET - PRODUCT CODE CSB	BRITEX	CLEANER'S SINK WITH BRACKETS (OR APPROVED EQUIVALENT)	CSB	STAINLESS STEEL	
-	WALL MOUNTED SINK SET WITH GOOSENECK SWIVEL	BRITEX WALL MOUNTED SINK SET WITH GOOSENECK SWIVEL SPOUT - PRODUCT CODE TW-SET-05	BRITEX	WALL MOUNTED SINK SET WITH GOOSENECK SWIVEL (OR APPROVED EQUIVALENT)	TW-SET-05	CHROME	

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E	09/05/22	ISSUED FOR COORDINATION	AL
F	12/07/22	ISSUED FOR DA	AL
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PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
SCHEDULE - FIXTURES

SHEET NUMBER: **DA6101**
REV: **G**

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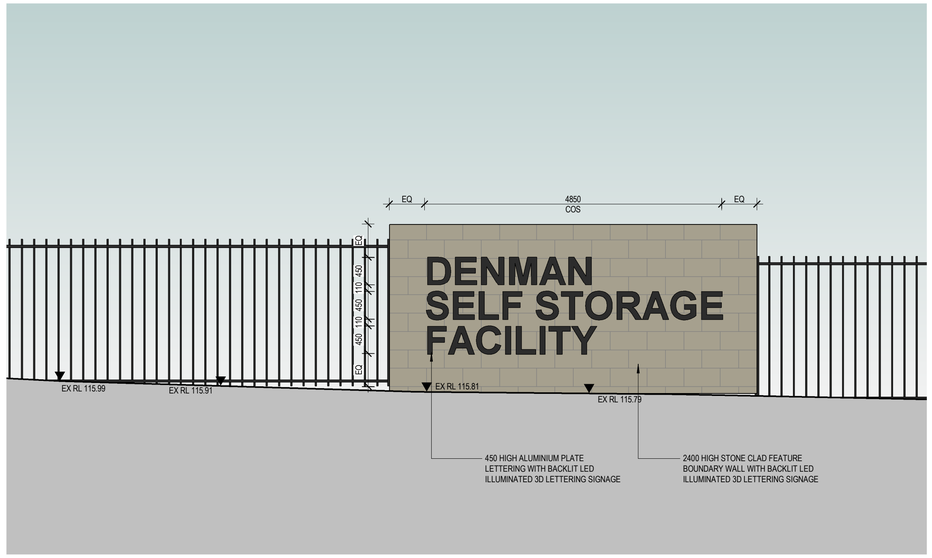
SIGNAGE SCHEDULE							
ELEMENT CODE	**ELEMENT**	**DESCIPTION**	**SUPPLIER**	**MODEL/PRODUCT**	**COLOUR/CODE**	**FINISH**	**IMAGE**
EXTERNAL FIXTURES							
DOORS							
-	UNISEX RH ACCESSIBLE TOILET BRAILLE SIGNAGE	BTX-02-170: BRUSHED ALUMINIUM BRUSHED ALUMINIUM TEXT HEIGHT: 20MM SYMBOL HEIGHT: 82MM SIZE: 180X250MM D3.6 AND AS1428.1 COMPLIANT	BRITEX	UNISEX RH ACCESSIBLE TOILET BRAILLE SIGNAGE - BRUSHED ALUMINIUM (OR APPROVED EQUIVALENT)	BTX-02-170	BRUSHED ALUMINIUM	
WALLS							
-	FEATURE WALL SIGNAGE	2400 HIGH STONE CLAD FEATURE BOUNDARY WALL WITH BACKLIT LED ILLUMINATED 3D LETTERING SIGNAGE.	SIGNARAMA	3D SIGNS AND LETTERING (OR APPROVED EQUIVALENT)	LETTERING: BLACK LIGHTING: WHITE	ALUMINIUM LETTERING	



1 DA1001 SIGNAGE - FEATURE WALL
1 : 50

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F	01/11/22	ISSUED FOR DA	AL

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PROJECT:
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DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

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SCHEDULE - SIGNAGE

SHEET NUMBER: **DA6201**
REV: **F**

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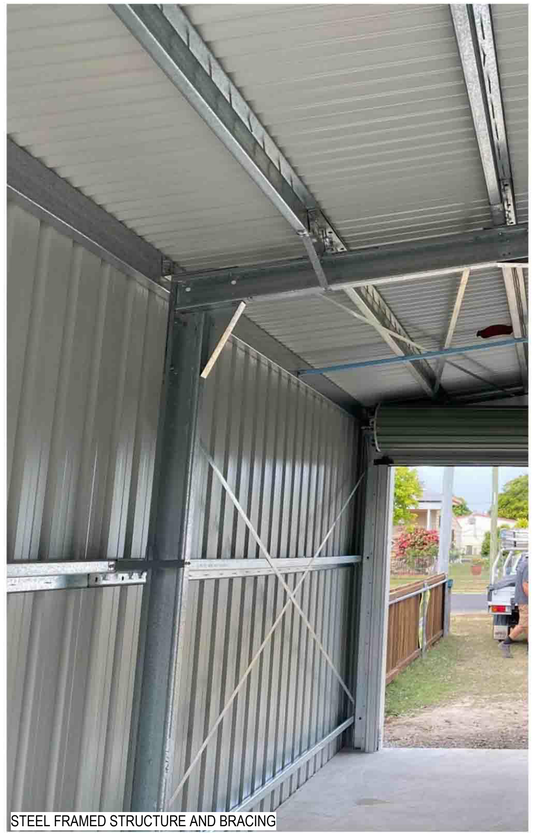
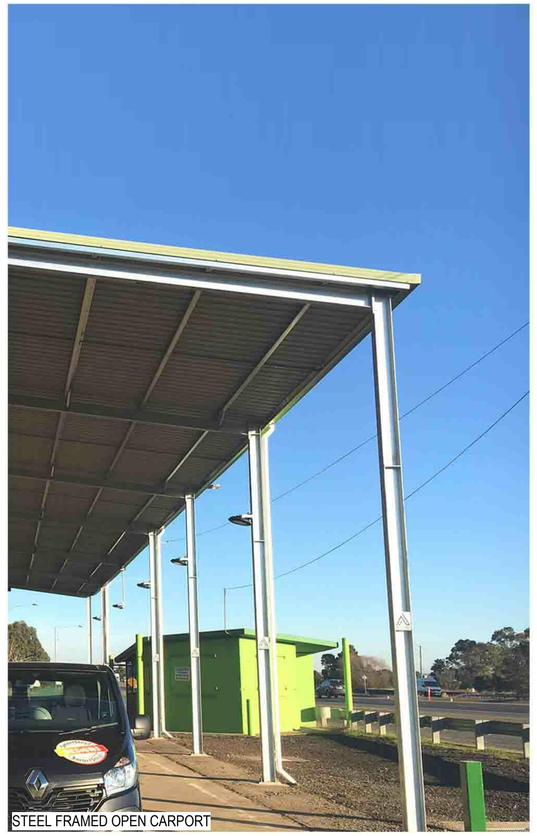
PRE-FINISHED PROFILED METAL WALL CLADDING


COLORBOND DEEP OCEAN


COLORBOND SHALE GREY


COLORBOND MONUMENT


STEEL FRAMED STRUCTURE AND BRACING


STEEL FRAMED OPEN CARPORT


CONCRETE FLOOR SLAB, NATURAL CONCRETE COLOUR, WOOD FLOAT FINISH


THE SHED COMPANY, MACADAMIA FARM SHED, LISMORE NSW

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F	01/11/22	ISSUED FOR DA	AL

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DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:

MATERIALS BOARD

SHEET NUMBER: **DA7001**

REV: **F**

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1 PERSPECTIVES - VIEW 1
NTS

NOTES

LANDSCAPING DEPICTED INDICATIVELY.
REFER TO LANDSCAPE ARCHITECTURE PACKAGE FOR SPECIFICATION OF SOFT LANDSCAPING.

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E	12/07/22	ISSUED FOR DA	AL
F	01/11/22	ISSUED FOR DA	AL

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PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
PERSPECTIVE - SHEET 1

SHEET NUMBER: **DA9001**
REV: **F**

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1 PERSPECTIVES - VIEW 2
NTS

NOTES

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B	01/09/21	ISSUED FOR COORDINATION	MM
C	12/07/22	ISSUED FOR DA	AL
D	01/11/22	ISSUED FOR DA	AL

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PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
PERSPECTIVE - SHEET 2

SHEET NUMBER: **DA9002**
REV: **D**

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1 PERSPECTIVES - VIEW 3
NTS

NOTES

LANDSCAPING DEPICTED INDICATIVELY.
REFER TO LANDSCAPE ARCHITECTURE PACKAGE FOR SPECIFICATION OF SOFT LANDSCAPING.

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B	01/09/21	ISSUED FOR COORDINATION	MM
C	12/07/22	ISSUED FOR DA	AL
D	01/11/22	ISSUED FOR DA	AL

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PROJECT:
20034
DENMAN STORAGE SHED COMPLEX

TURNER STREET, DENMAN, NSW

DRAWING TITLE:
PERSPECTIVE - SHEET 3

SHEET NUMBER: **DA9003**
REV: **D**

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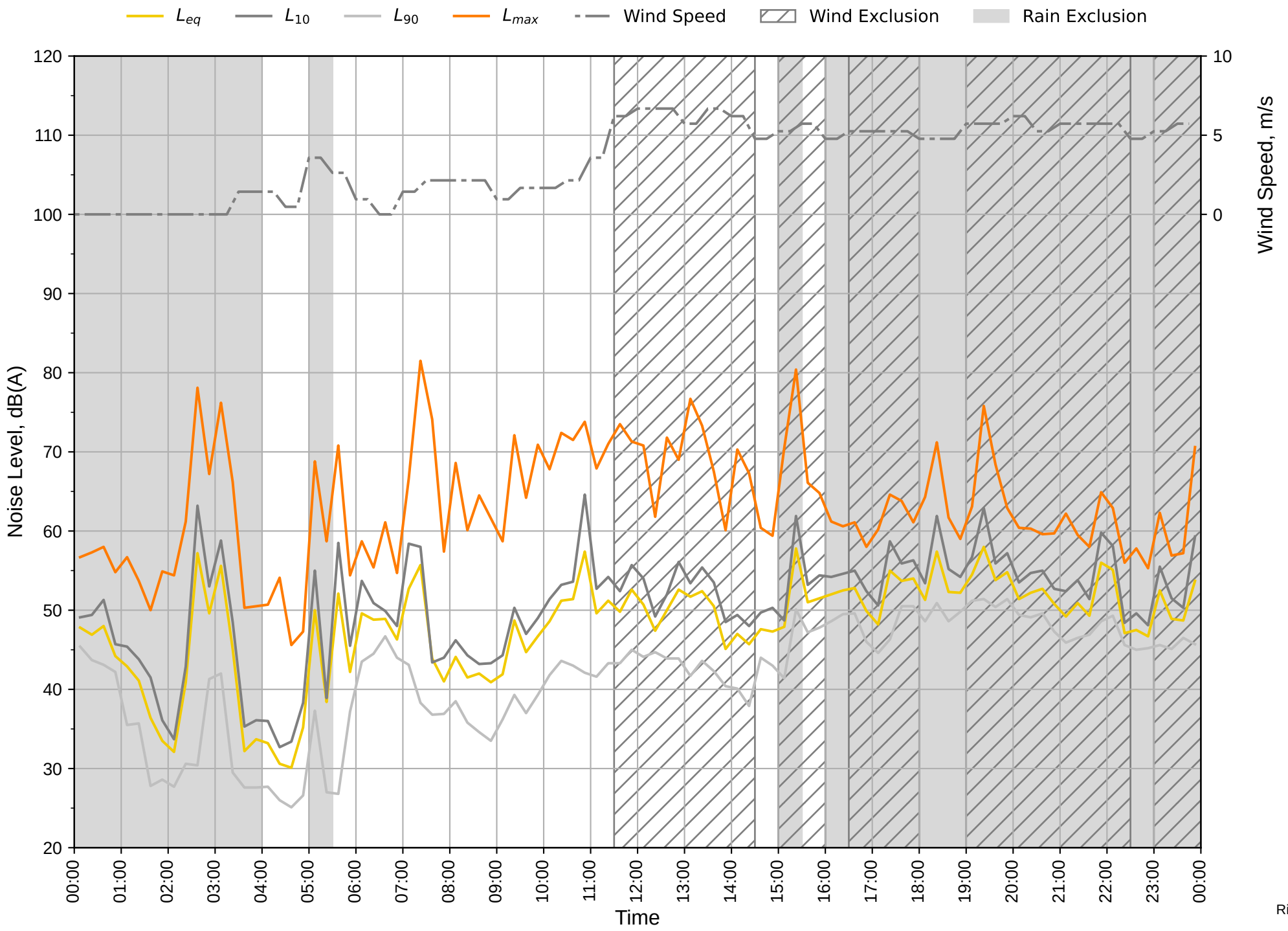
Appendix B – Unattended Noise Monitoring Graphs

Resonate

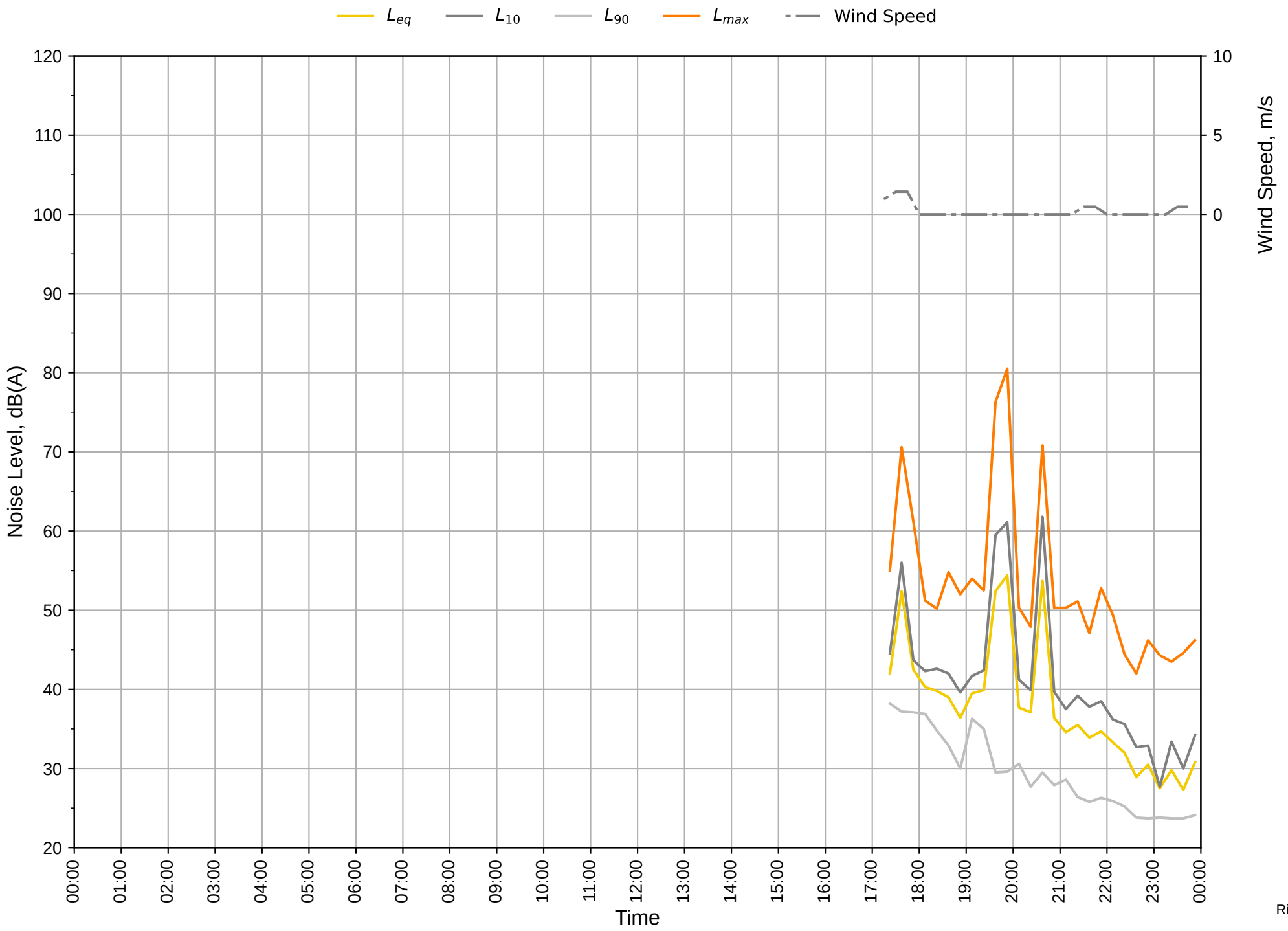
2 Bell Street, Denman - Tuesday, 5 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

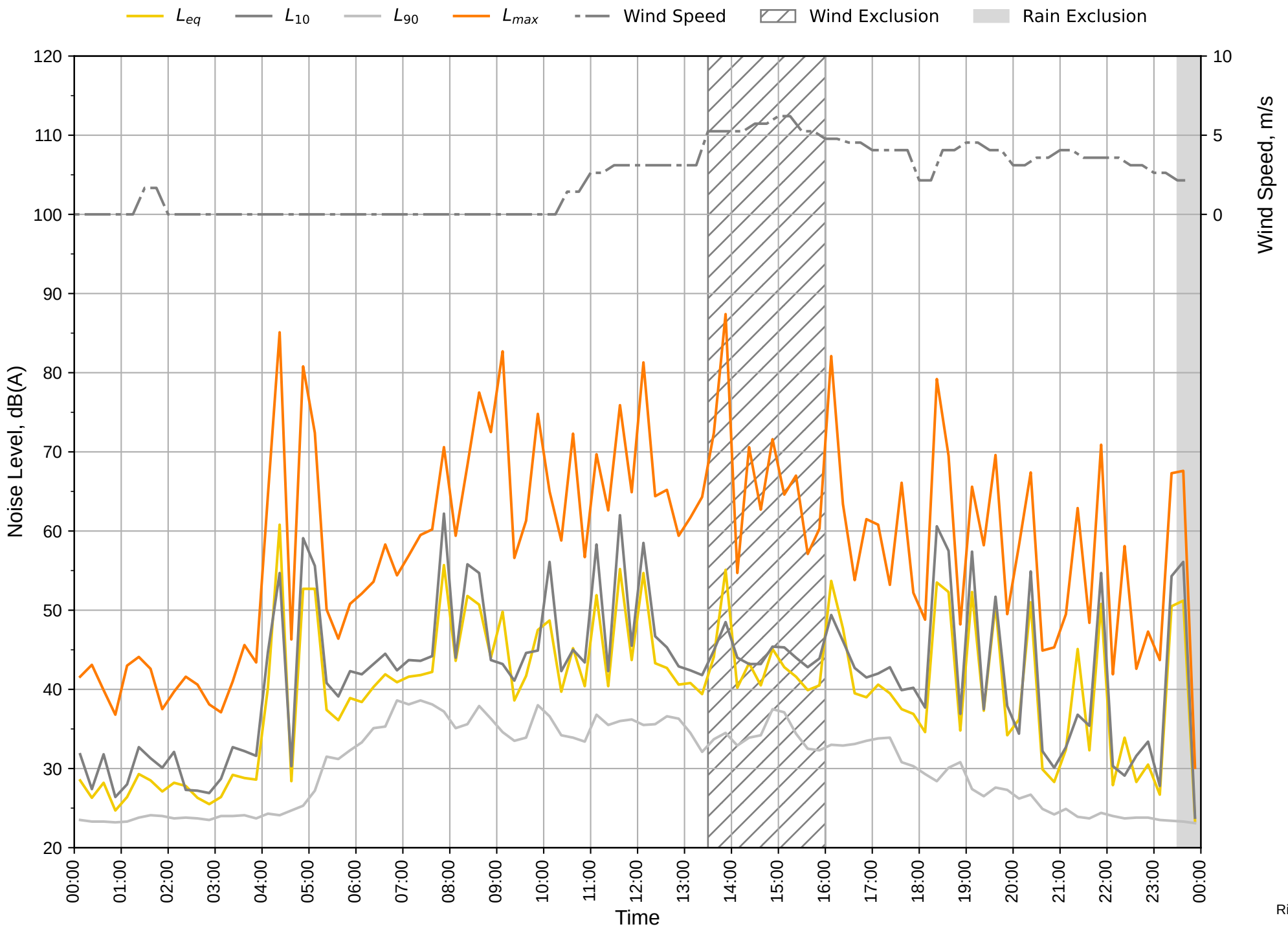
2 Bell Street, Denman - Thursday, 30 June 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

2 Bell Street, Denman - Friday, 1 July 2022



Rion NL-21
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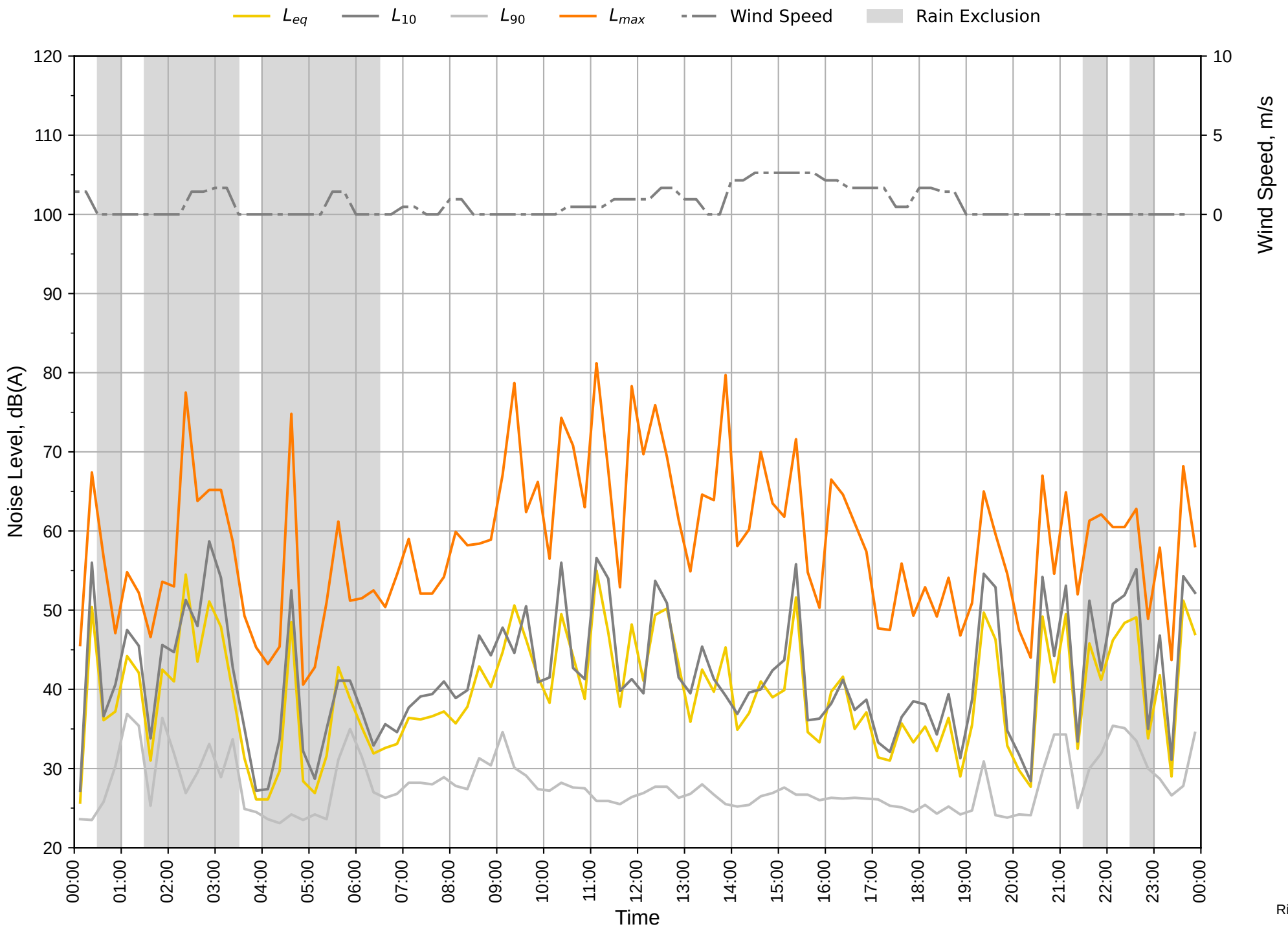
Calibration:
2022-07-28

Resonate

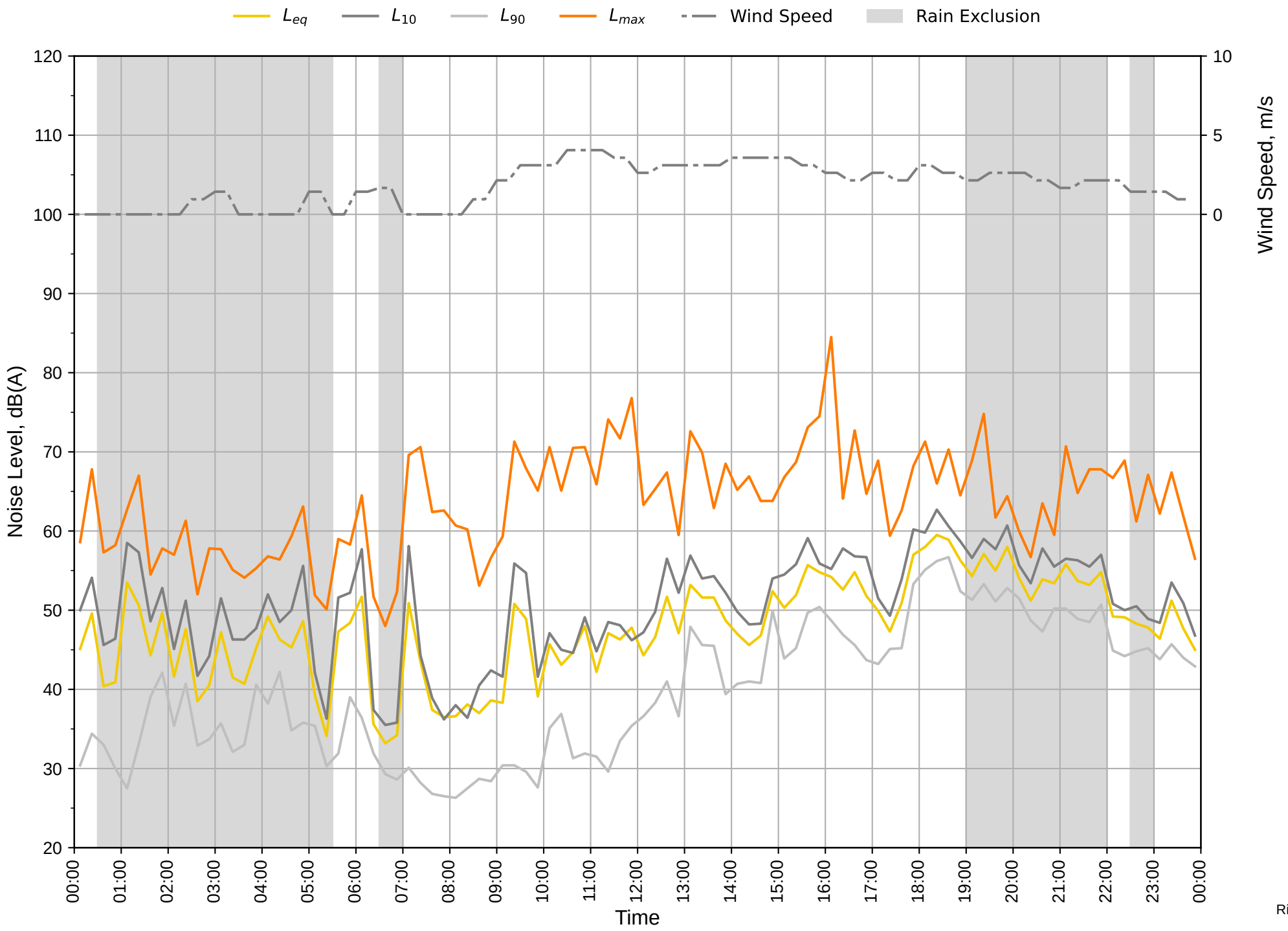
2 Bell Street, Denman - Saturday, 2 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

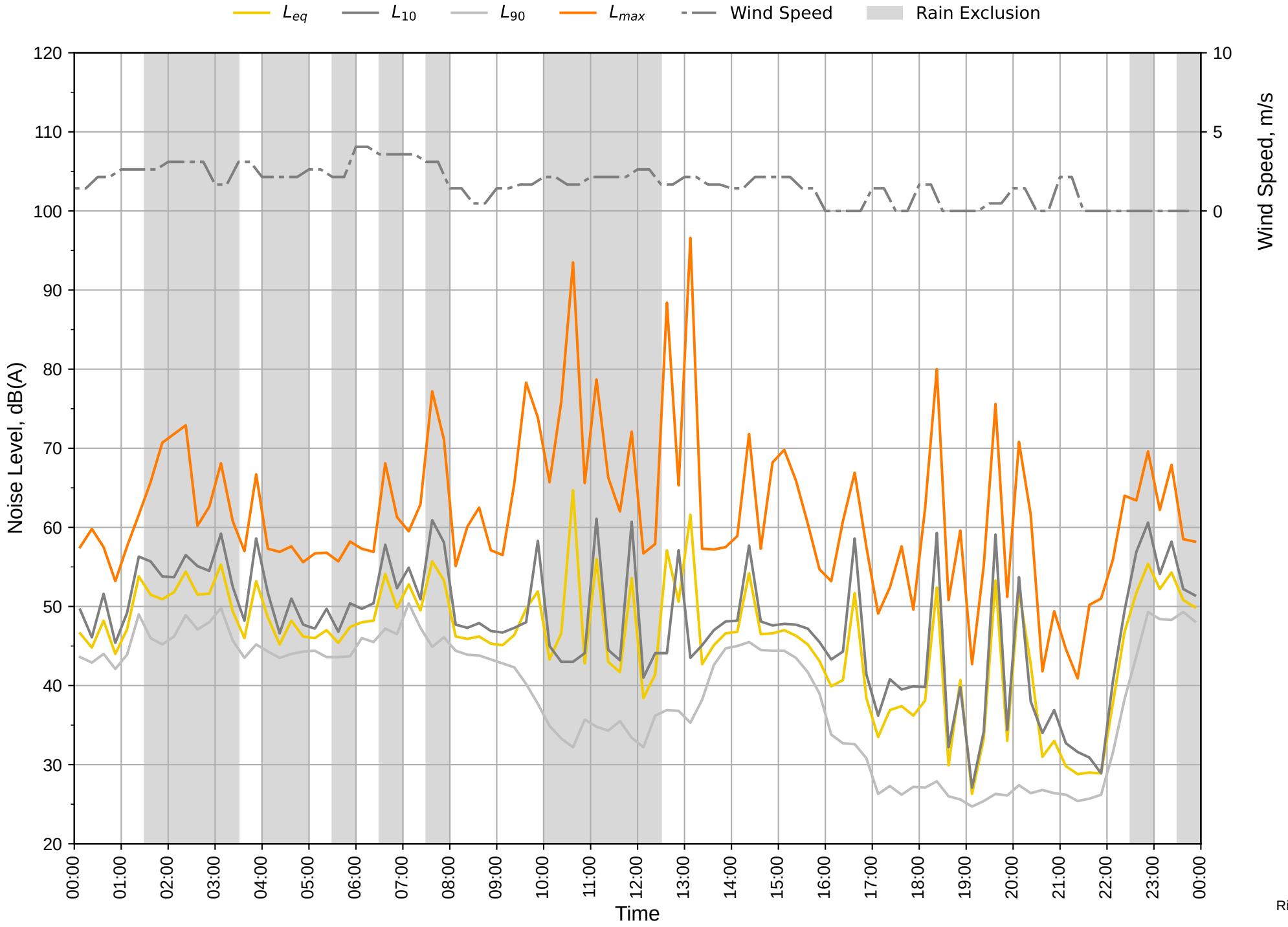
2 Bell Street, Denman - Sunday, 3 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

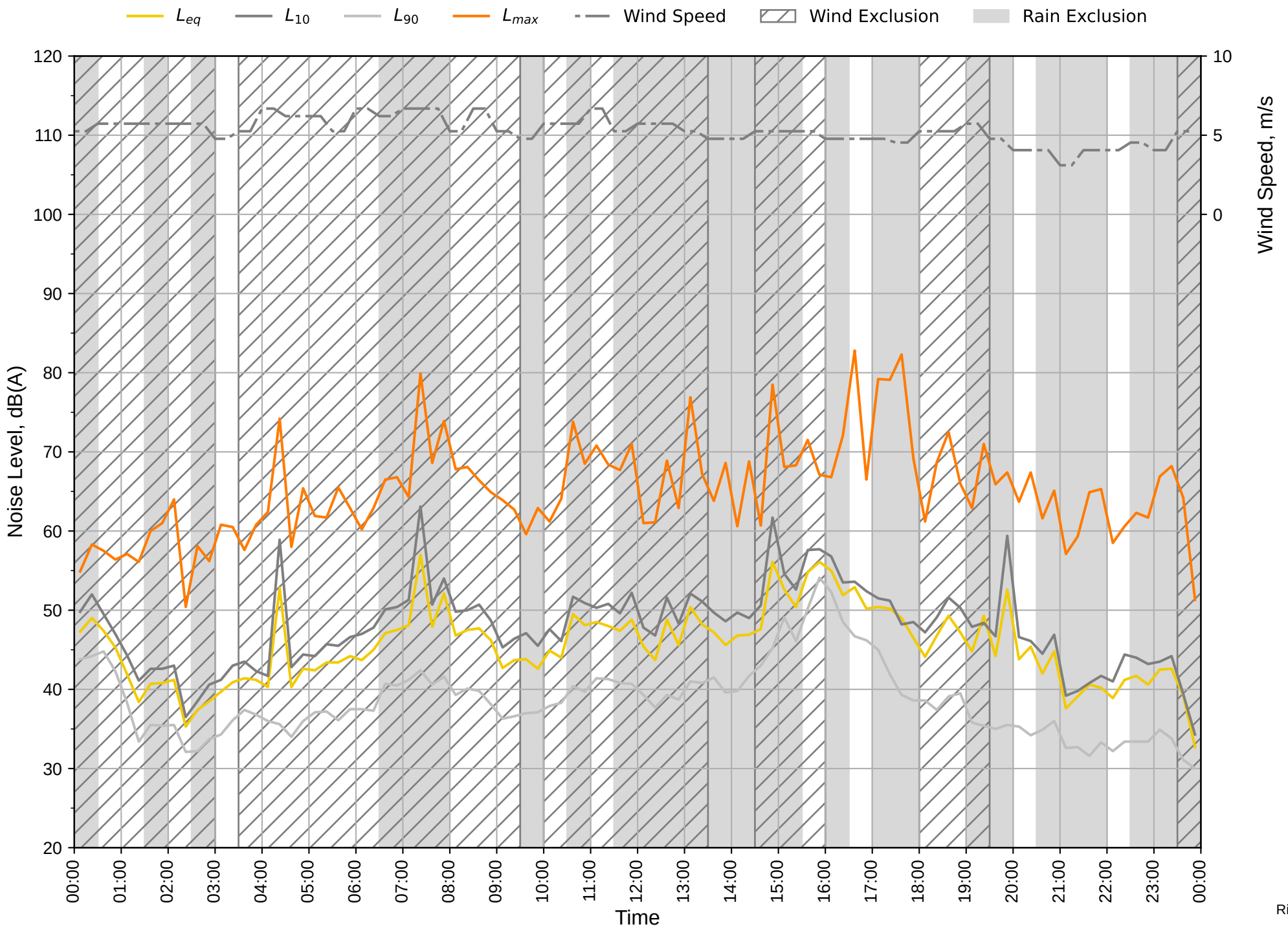
2 Bell Street, Denman - Monday, 4 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

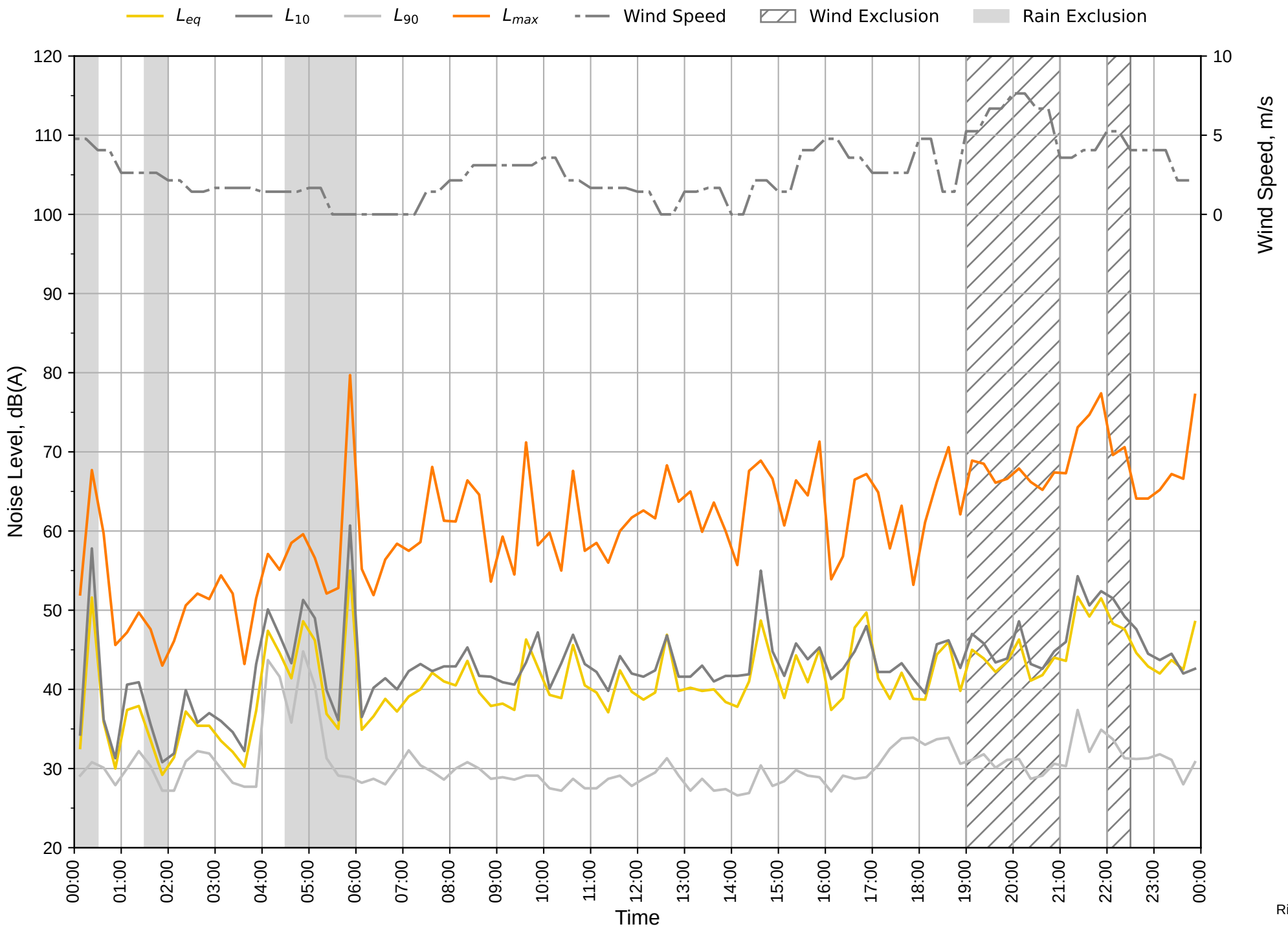
2 Bell Street, Denman - Wednesday, 6 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

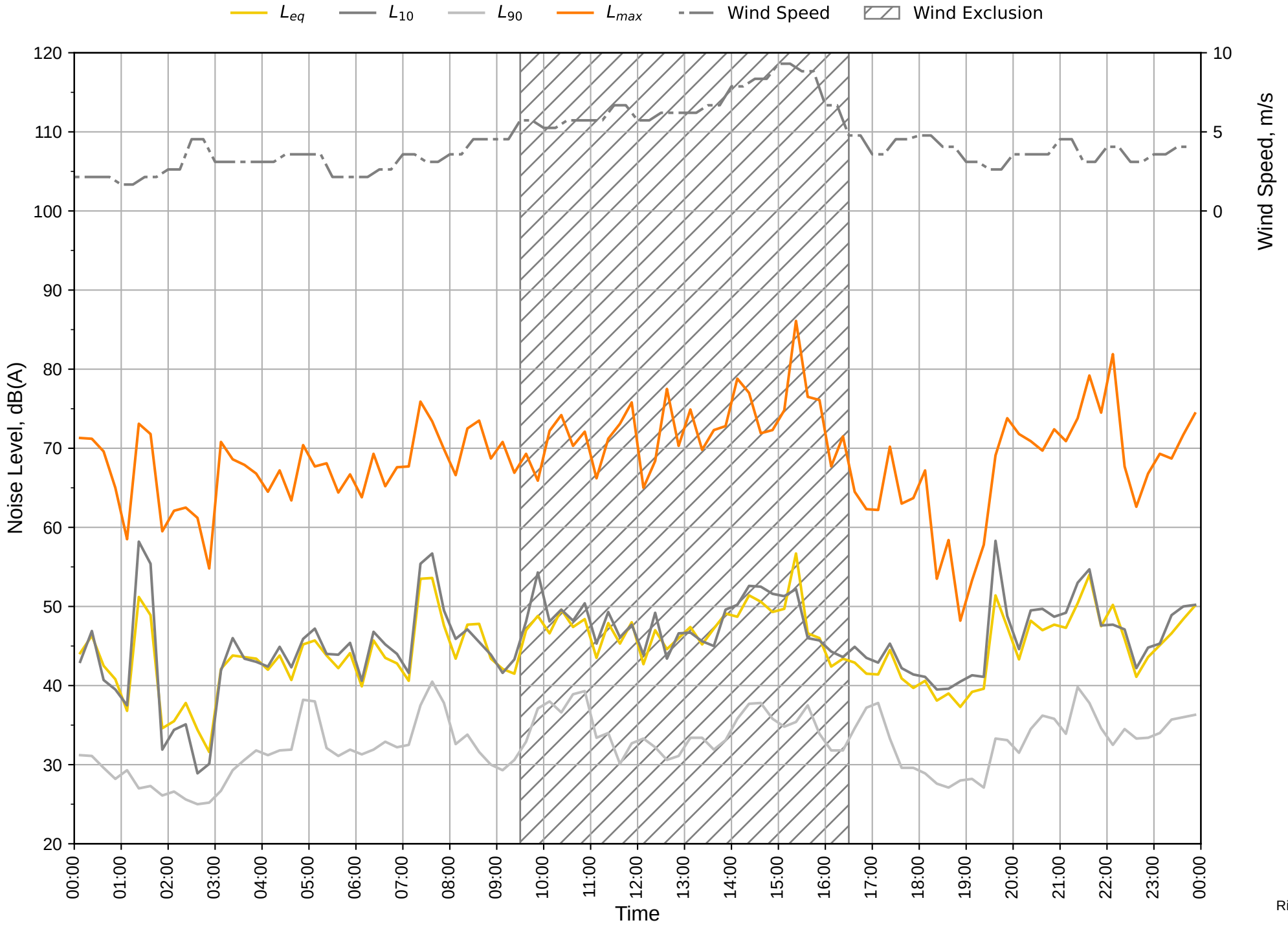
2 Bell Street, Denman - Thursday, 7 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

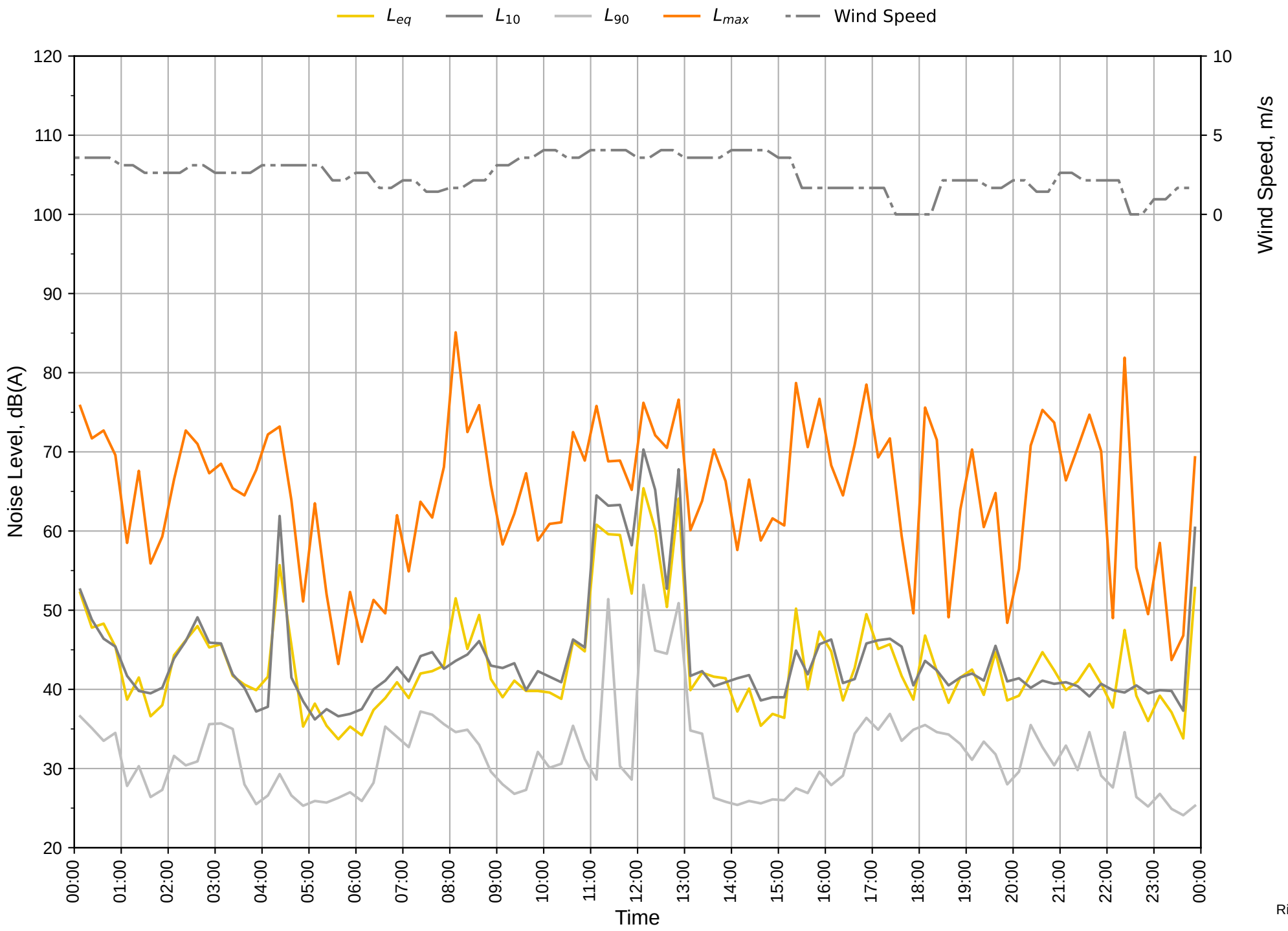
2 Bell Street, Denman - Friday, 8 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

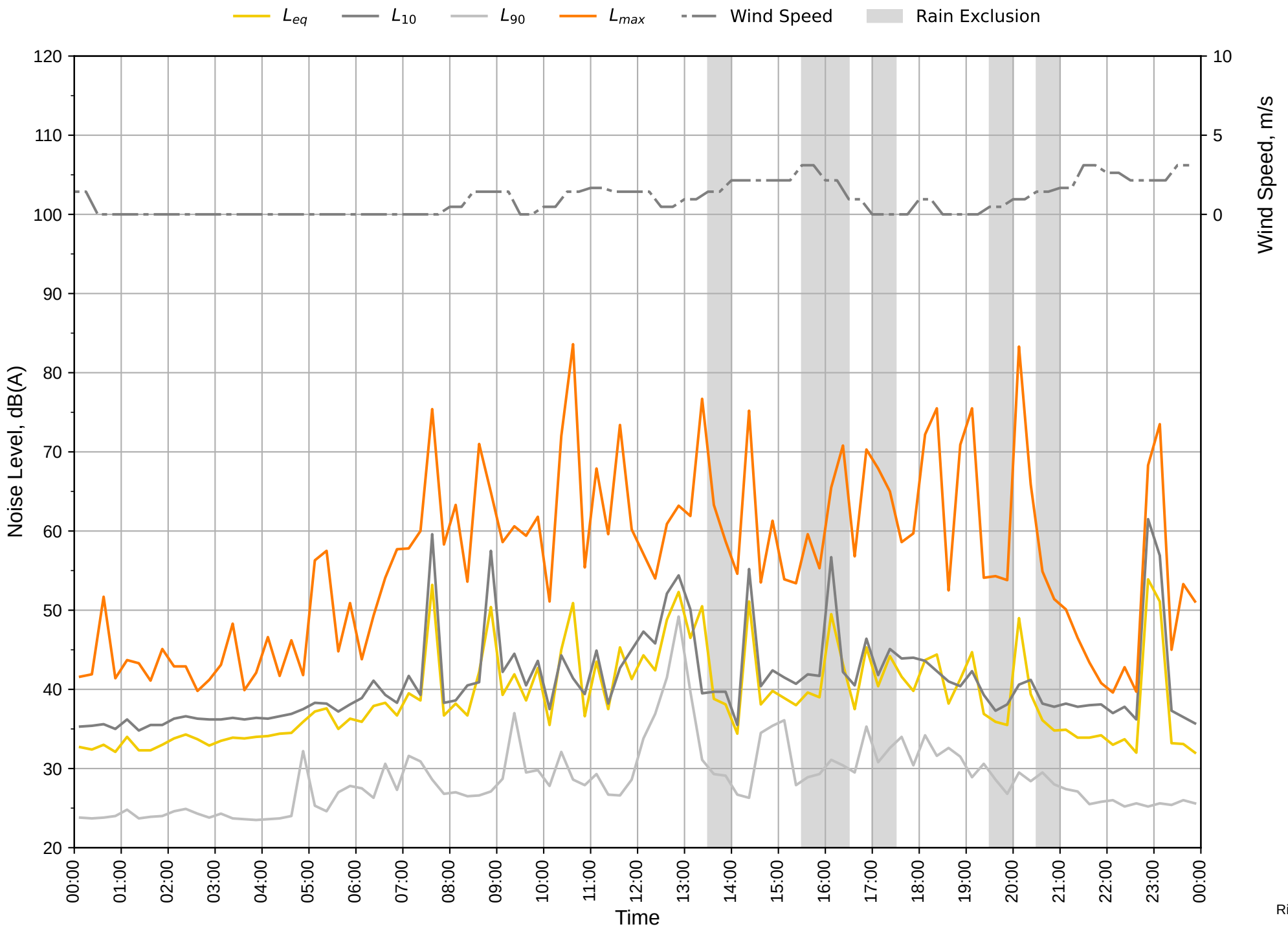
2 Bell Street, Denman - Saturday, 9 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

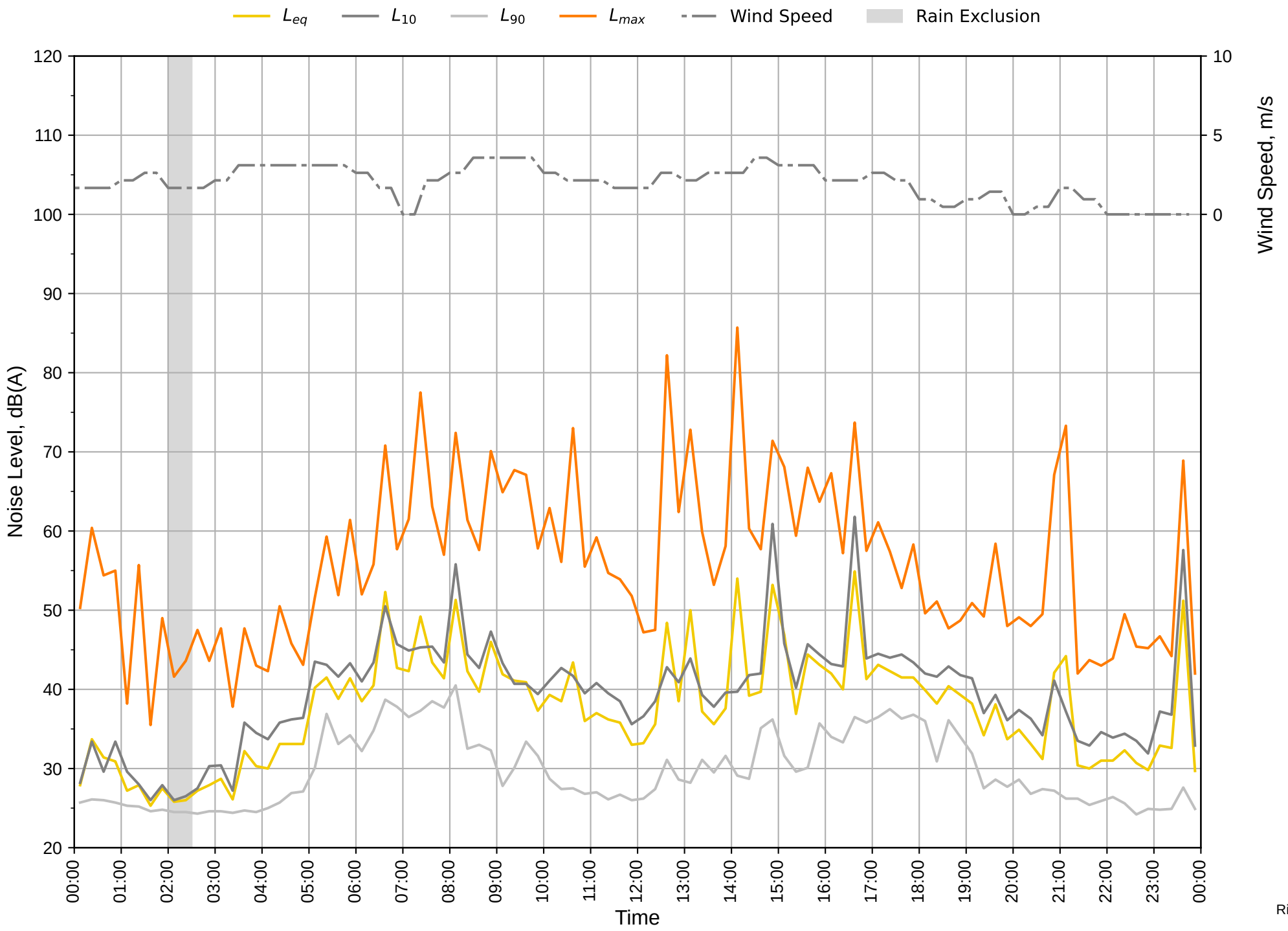
2 Bell Street, Denman - Sunday, 10 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

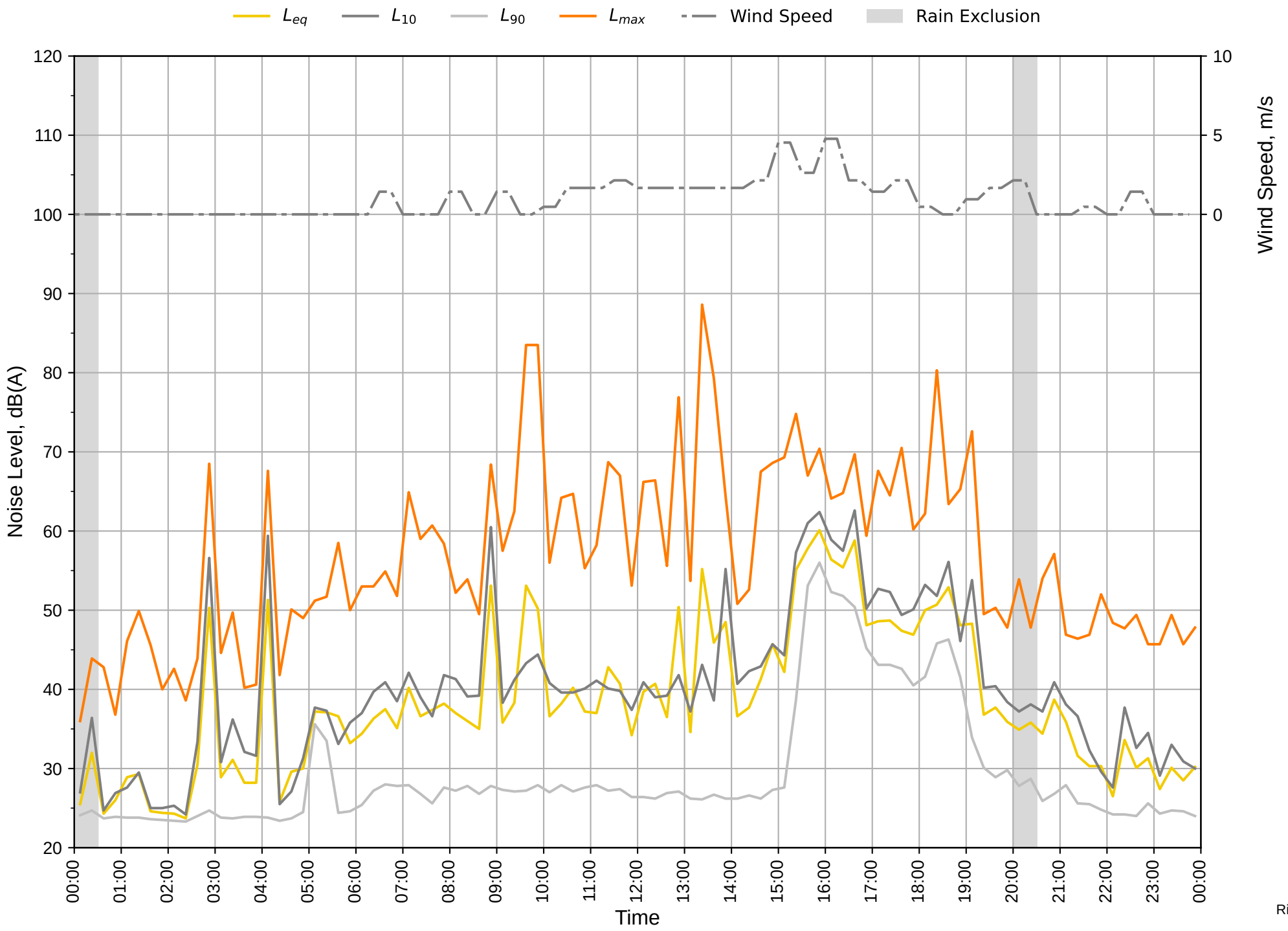
2 Bell Street, Denman - Monday, 11 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

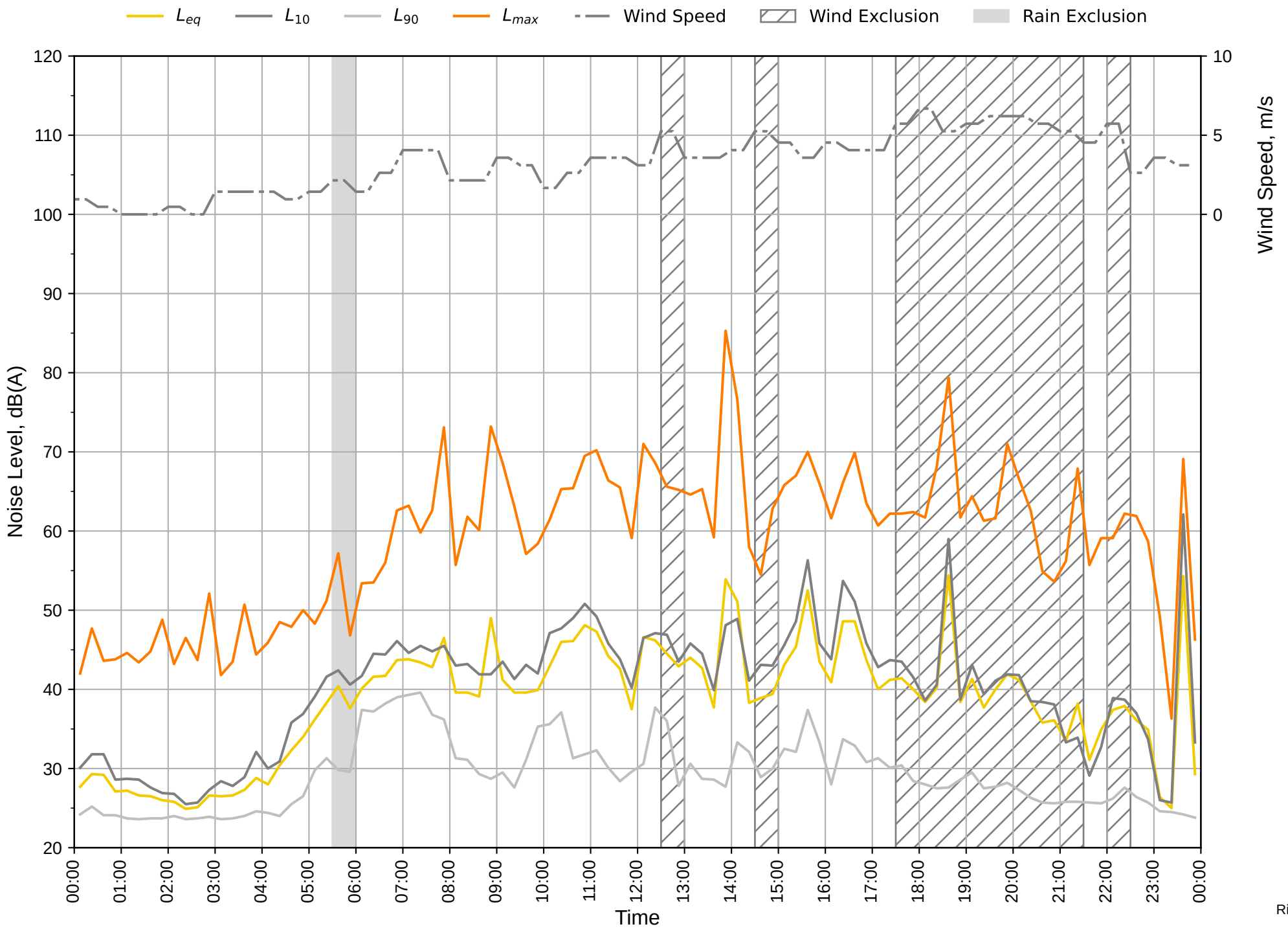
2 Bell Street, Denman - Tuesday, 12 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

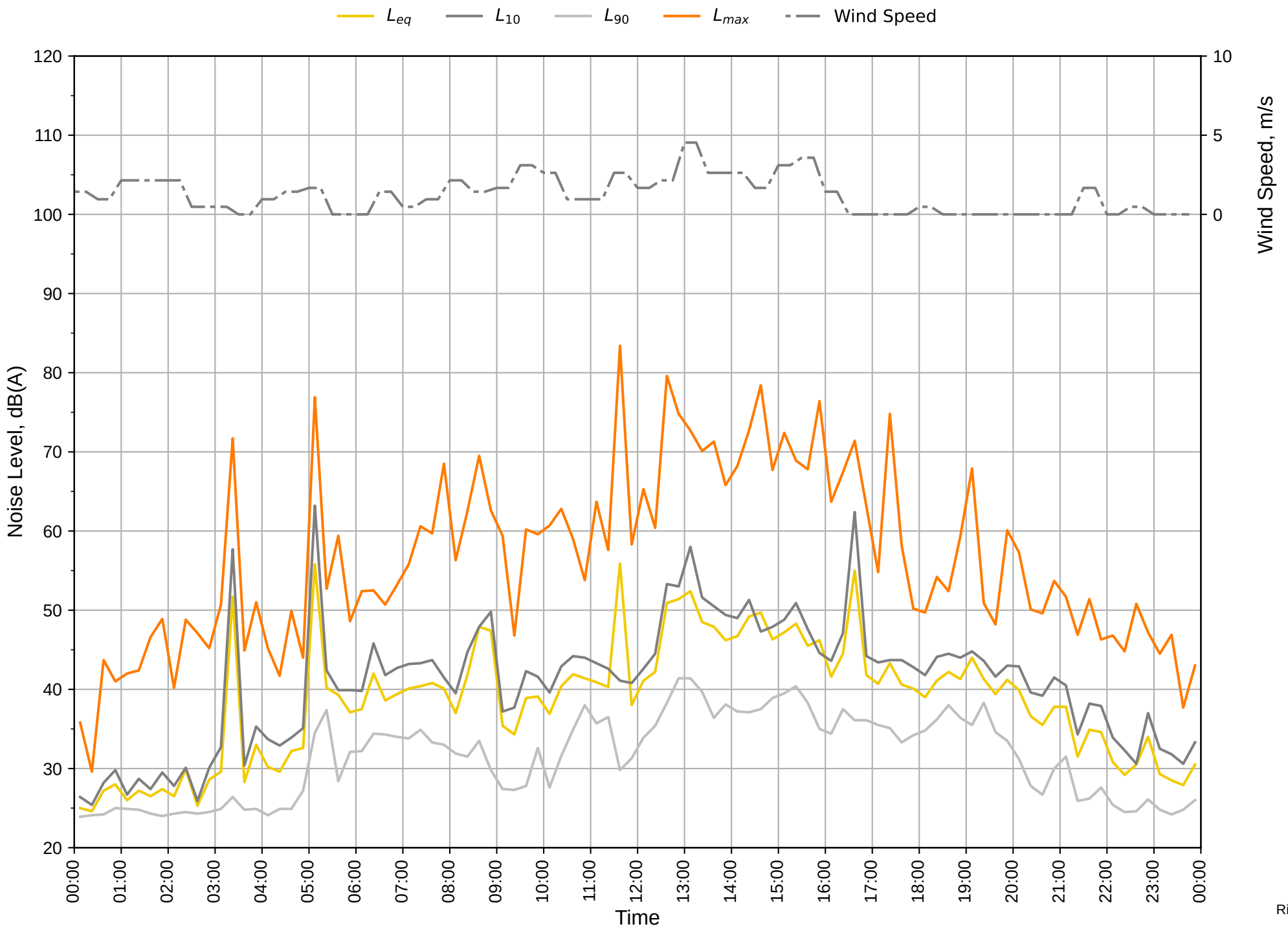
2 Bell Street, Denman - Wednesday, 13 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

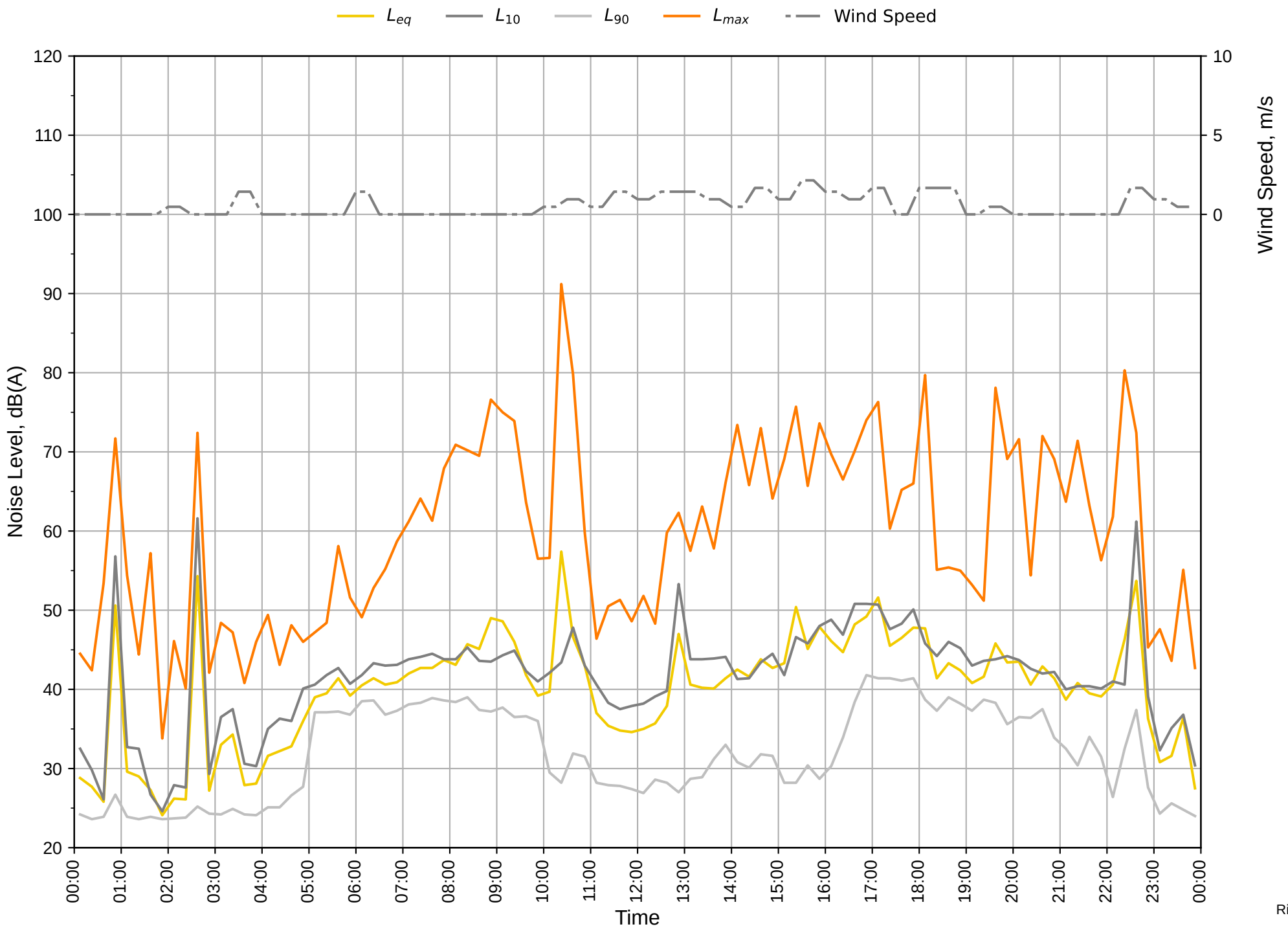
2 Bell Street, Denman - Thursday, 14 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

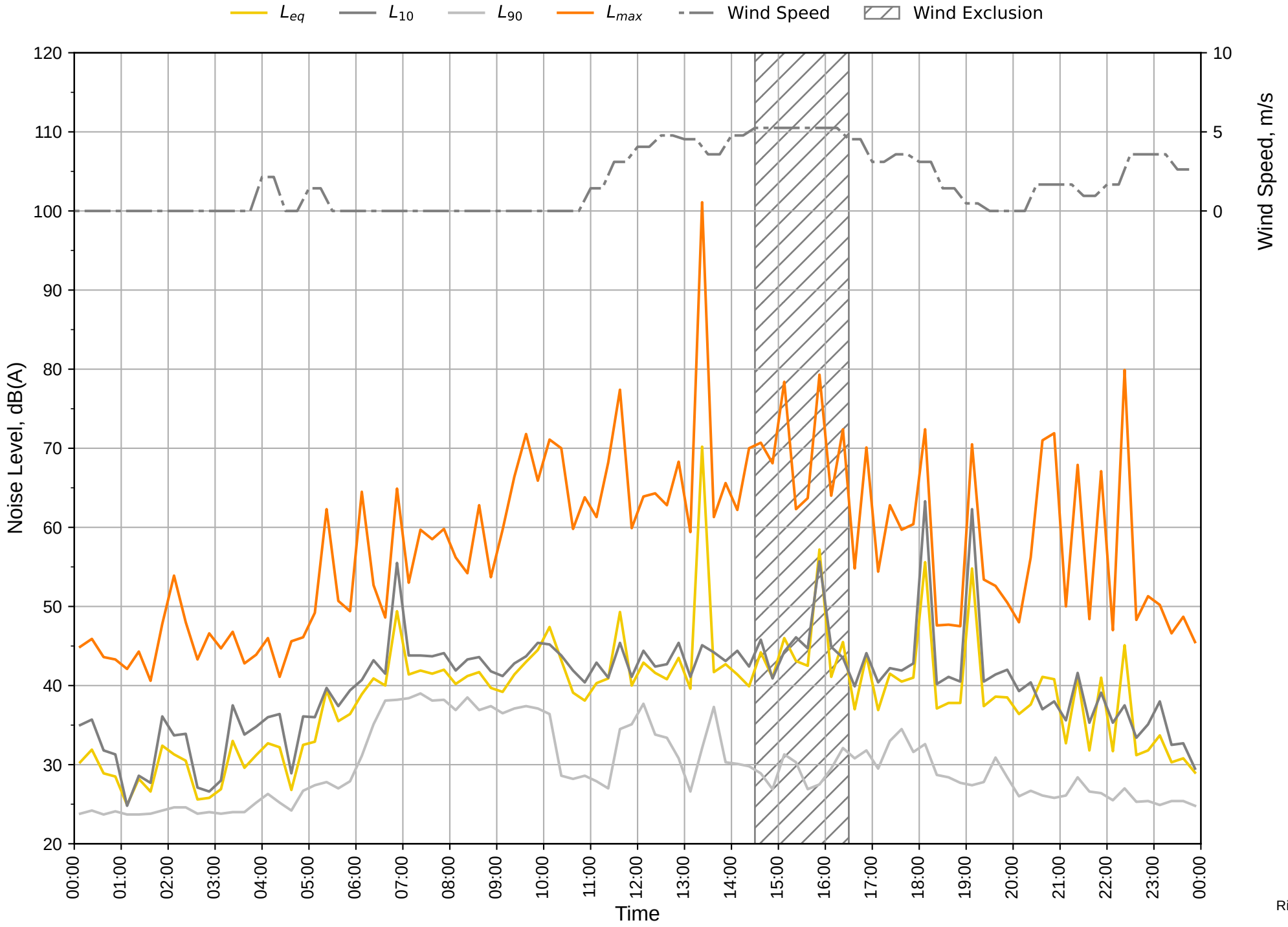
2 Bell Street, Denman - Friday, 15 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

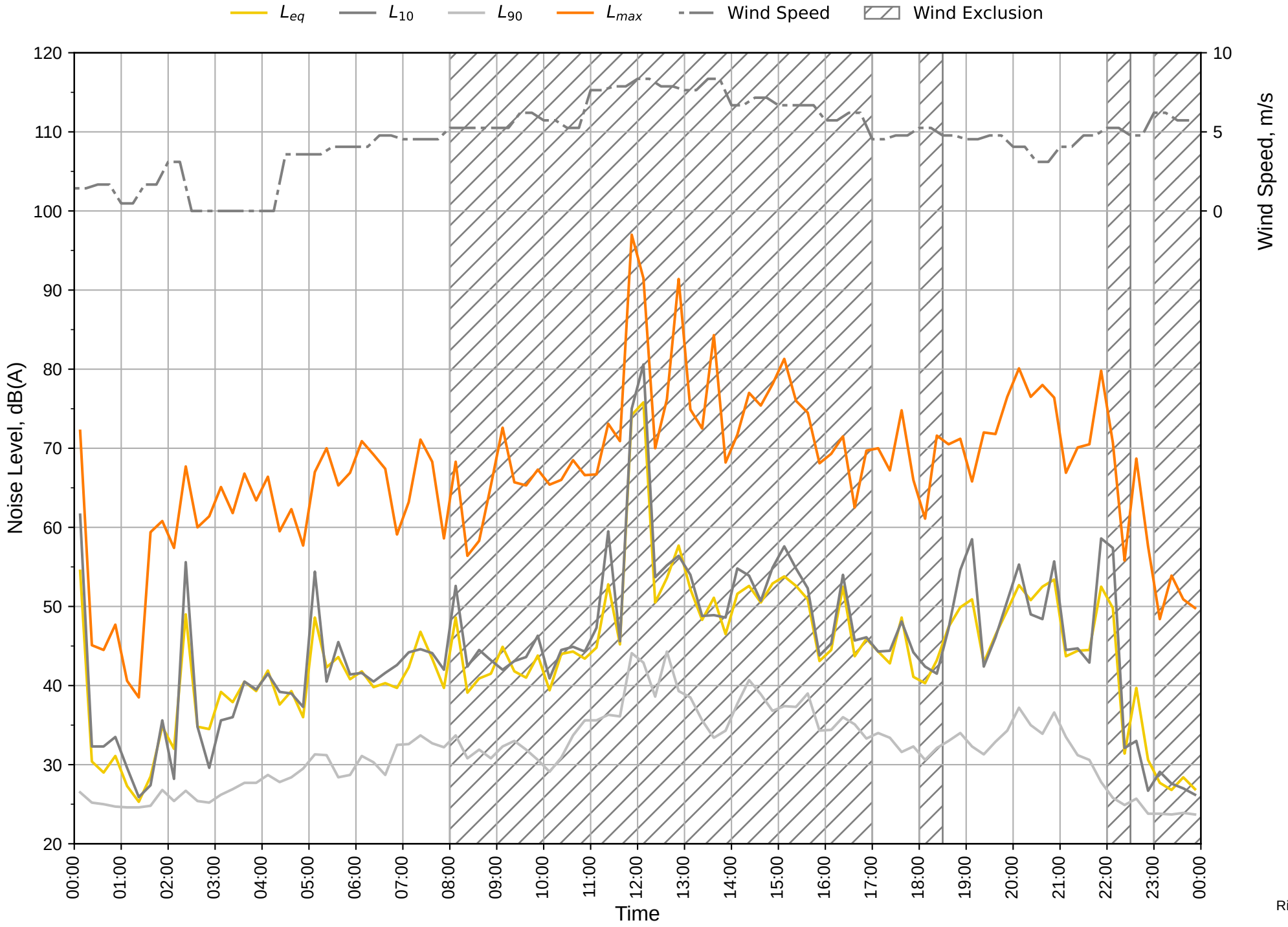
2 Bell Street, Denman - Saturday, 16 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

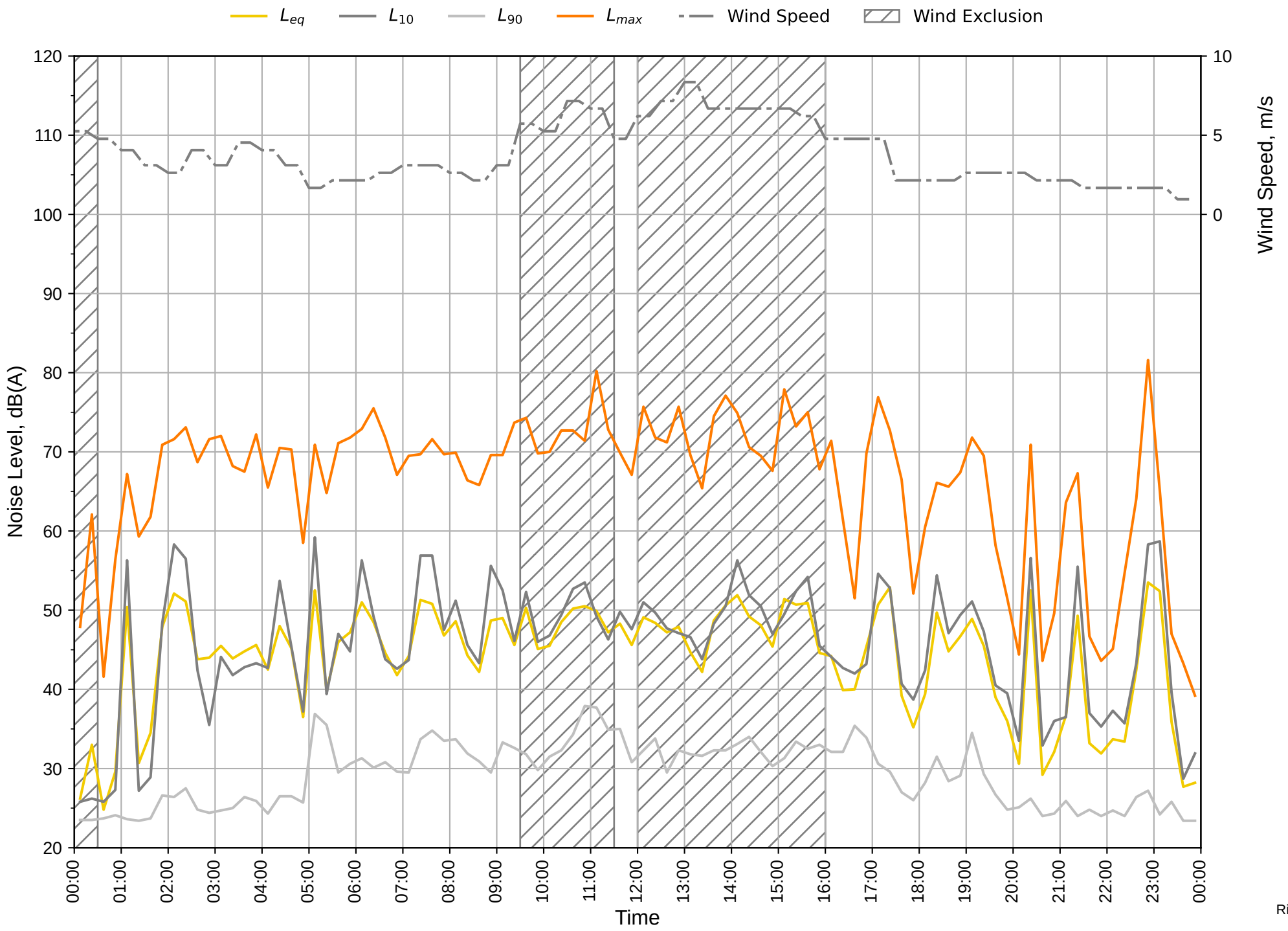
2 Bell Street, Denman - Sunday, 17 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

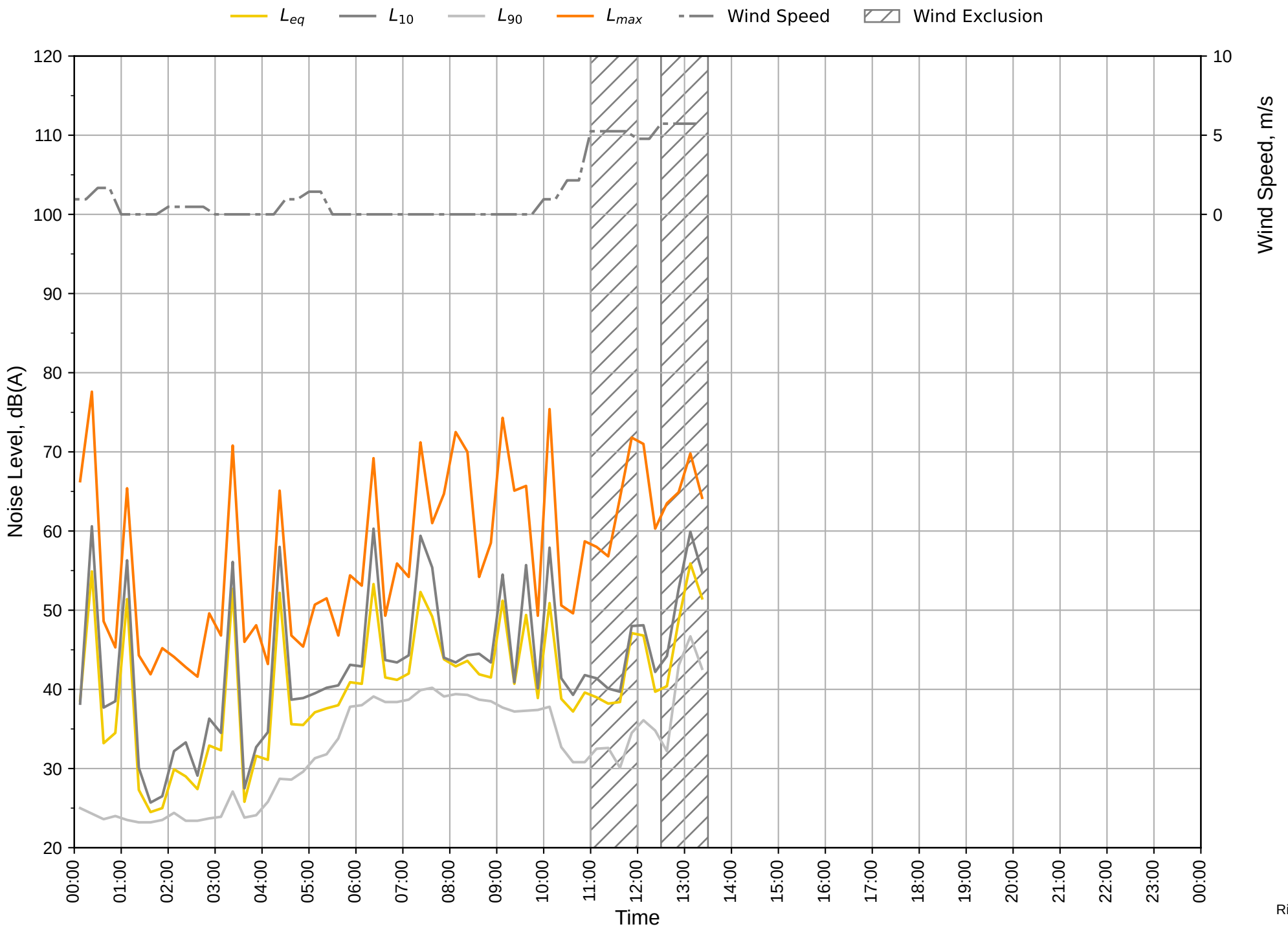
2 Bell Street, Denman - Monday, 18 July 2022



Rion NL-21
888253
Calibration:
2022-07-28

Resonate

2 Bell Street, Denman - Tuesday, 19 July 2022



Rion NL-21
888253
Calibration:
2022-07-28