SUNCORP STADIUM

Post Event Report

Luke Combs 2025 Tour

24/25 January 2025

Report Requirements

This report is reproduced in accordance with the legislative requirements of the Queensland Government for Special Events held at Suncorp Stadium.

This document is available and published for public consumption.

Contents

1.0 Event Overview

Suncorp Stadium hosted the Luke Combs 2025 concerts on Friday 24 January 2024 and Saturday 25 January 2025. This is the first time Luke Combs has performed at Suncorp Stadium. It is also the first Country Music concert held at the venue. A total of 92,429 patrons attended over the two concert nights.

Detailed planning was undertaken to identify and minimise potential adverse impacts on the local community in accordance with the Major Sports Facilities Regulation 2014 for Special Events and the updated Major Sports Facilities Act 2001 (updated 31 October 2022)

A specific Operational and Transport & Traffic Management Plan was developed for the concert and presented to the Stadium Management Advisory Committee (SMAC), Transport Coordination Group (TCG) and Stadiums Queensland as required in the Regulations.

A dedicated Call Centre was established for the concert periods to enable the general public to contact the Stadium on any issues arising either during the bump-in, bump-out periods and during the concert itself. A local community letterbox drop was also conducted to provide residents and local businesses within the Lang Park Traffic Area with relevant information pertaining to the events.

2.0 Event Summary

Key deliverables for the concert event are:

ATTENDANCE
24/01/25 – SHOW 1
45,263
25/01/25 – SHOW 2
47,166

COMPLIMENTS
24/01/25 – SHOW 1
0
25/01/25 – SHOW 2
0

COMPLAINTS
24/01/25 – SHOW 1
4
25/01/25 – SHOW 2
12

POLICE ISSUES
24/1/25 – SHOW 1
18
25/1/25 – SHOW 2
13

SECURITY ISSUES
24/1/25 – SHOW 1
12
24/1/25 – SHOW 2
41

NOISE COMPLAINTS
16/02/24 – SHOW 1
0
17/02/24 – SHOW 2
0

2.1 Weather Conditions and Impacts

On Friday 24 January 2025, there were extremely hot and humid conditions throughout the day which extended into the evening. This resulted in higher than average first aid requirements throughout the day and into the evening. Many medical cases reported were pre-existing conditions exacerbated by the heat.

To assist with the conditions, a number of measures were implemented to assist. This included additional medical staff, water stations, misting fans and staff providing water to patrons as well as reminders for patrons and staff to continue to remain hydrated.

Temperature and Humidity

	Fri, Jan 24																							
	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am	6:00 am	7:00 am	8:00 am	9:00 am	10:00 am	11:00 am	12:00 pm	1:00 pm	2:00 pm	3:00 pm	4:00 pm	5:00 pm	6:00 pm	7:00 pm	8:00 pm	9:00 pm	10:00 pm	11:00 pm	12:00 am
	overcast	overcast	overcast	overcast	overcast	overcast	overcast	overcast	overcast	overcast	overcast	overcast	overcast	overcast	mostly cloudy	mostly cloudy	mostly cloudy	mostly cloudy	mostly cloudy	mostly cloudy	mostly cloudy	mostly cloudy	clear intervals	clear intervals
Temperature [°C]	25.7	25.4	24.9	24.8	24.1	24.3	25.6	26.5	27.9	28.9	30.1	31.5	33.1	34.6	35.6	36.2	35.8	34.6	32.7	29.5	27.4	26.1	25.4	24.9
Dew point [°C]	23.2	23.2	22.8	22.3	22.2	22.5	23.1	22.9	23.0	23.1	24.0	24.3	24.8	24.0	23.3	22.4	22.4	23.0	23.4	24.0	22.9	20.8	20.5	20.2
Relative humidity [%]	85	90	90	85	90	90	85	80	75	70	70	65	60	55	50	45	45	50	60	70	75	75	75	75

Despite forecasts not predicting any storm or rainfall, thunderstorm activity started to appear on the radars south of the stadium late in the afternoon. Early indications and storm tracker information suggested storms would not impact the stadium however, due to unpredictability of such activity and a change of storm direction, the decision was made by the promoter, production and venue, to shorten the support act and evacuate the exposed areas as a precaution for the safety of patrons.

This was undertaken successfully at 7:55pm and, due to the fast pace of the storm activity, recommencement of the show was possible, resulting in a minor delay of 15 minutes for the Friday show. The show still finished prior to the curfew of 10:30pm

Weather conditions on Saturday 25 January 2025 were more favourable with temperatures in the high 20's and no rainfall. As a result, the show commenced at its scheduled time.

3.0 Ticketing Operations

3.1 Concert Program

Running times for the concert were as follows:

	Artist	24/1/25	25/1/25
Public Entry Gates		4:30pm	4:30pm
Support Act 1 start	Lane Pitmann	5:30pm	5:30pm
Support Act 1 end	Lane Pitmann	5:55pm	5:55pm
Support Act 2 start	Mitchell Tenpenny	6:15pm	6:15pm
Support Act 2 end	Mitchell Tenpenny	6:50pm	6:40pm
Support Act 3 start	Jordan Davis	7:10pm	7:10pm
Support Act 3 end	Jordan Davis	7:45pm	7:55pm
Main Act start	Luke Combs	8:30pm	8:15pm
Main Act end	Luke Combs	10:15pm	10:05pm

*Start time was delayed as a result of storm activity around the venue

3.2 Ticket Sales

FRIDAY 24 JANUARY 2025	SOLD	ATTEND	%
Field – GA Standing	5,350	5,234	97.83%
Field – Reserved Seating	6,430	38,374	97.06%
Grandstand Seating	33,103		
Corporate Seating	1,786	1,655	92.66%
TOTAL SALES	46,669	45,263	96.98%
NO SHOWS		1,406	

SATURDAY 25 JANUARY 2025	SOLD	ATTEND	%
Field – GA Standing	5,350	5,281	98.71%
Field – Reserved Seating	6,430	40,218	97.75%
Grandstand Seating	34,712		
Corporate Seating	1,780	1,667	93.65%
TOTAL SALES	48,272	47,166	97.70%
NO SHOWS		1,106	

3.3 Turnstile and Gate Activity

FRIDAY 24 JANUARY 2025	TICKET NUMBERS	% CROWD	OPEN TIME PRE MAIN ACT
Gate A	7,514	16.60%	4.25 hrs
Gate B	7,172	15.84%	4.25 hrs
Gate C1 – GA standing	2,786	6.15%	4.25 hrs
Gate C2 – reserved	4,268	9.42%	4.25 hrs
Gate D	7,703	17.01%	4.25 hrs
Gate E	4,422	9.81%	4.25 hrs
Gate F	546	1.20%	4.25 hrs
Gate G – GA standing	2,429	5.36%	4.25 hrs
South Hand Scanners	5,332	11.78%	4.25 hrs
Vehicle entry	3,.05	6.72%	4.25 hrs
North Hand Scanners	46	0.10%	4.25 hrs
TOTAL	45,263	100.00%	

SATURDAY 25 JANUARY 2025	TICKET NUMBERS	% CROWD	OPEN TIME PRE MAIN ACT
Gate A	8,171	18.05%	4.00 hrs
Gate B	7,557	16.67%	4.00 hrs
Gate C1 – GA standing	2,847	6.28%	4.00 hrs
Gate C2 – reserved	4,201	9.28%	4.00 hrs
Gate D	8,337	18.41%	4.00 hrs
Gate E	5,094	11.25%	4.00 hrs
Gate F	471	1.04%	4.00 hrs
Gate G – GA standing	2,408	5.32%	4.00 hrs
South Hand Scanners	4,455	9.84%	4.00 hrs
Vehicle entry	3,392	7.49%	4.00 hrs
North Hand Scanners	233	0.51%	4.00 hrs
TOTAL	47,166	100.00%	

Patron flow into the venue for this concert was very steady with approximately 30% and 40% of the crowd in the venue at the start of the first support act respectively. The venue was at 90% capacity by the start of the main support act. Patron arrived earlier for Saturday's show and there was no pressure on gates at any time.

3.4 Stadium Memberships

This event was not included in the Stadium Memberships Entitlements however Suncorp Stadium Life Ground Members were permitted to utilize their tickets. Suncorp Stadium Members were provided with a presale opportunity to purchase tickets for the event.

4.0 Local Resident Management

4.1 Call Centre Operations

The Stadium established a Concert Hotline for local residents and businesses. The Hotline was manned by trained Stadium staff during the following times:

Thursday 23 January 2025	0900 – 1700
Friday 24 January 2025	0900 – 2330
Saturday 25 January 2025	0900 – 2330

To assist with major complaints or issues, Call Centre operators had direct access to the Stadium's main control room and management team to obtain specific advice.

The general Stadium number (07 3331 5000) was also operational during normal business hours as was the Stadium Security number (07 3331 5168) after hours. All calls logged by Call Centre operators were responded to by a return call from Stadium staff immediately.

4.2 Concert Hotline & SMS Report

Comments/Complaints received via the Call Centre and the SMS reporting system are as follows

	24/1/25	25/1/25
Patron Behaviour	28	51
Noise Complaint		
Security	2	2
Smoking	5	7
TOTAL	35	60

4.3 Noise Monitoring

Protest Engineering conducted initial modelling to assist with the noise control measures during planning for the concert.

As part of this process, Protest Engineering monitored noise levels at 15 minute intervals from inside the Stadium at the mixing console which was located approximately 50 metres from the front of house loudspeakers. External noise monitoring was also conducted at the following locations as required by the Major Sports Facilities Regulation 2014:

- 8 / 5 Petrie Terrace, Brisbane
- 15 Plunkett Street, Paddington
- 36 Judge Street, Brisbane
- 26 Princess Street, Brisbane
- 31 Isaac Street, Milton

Protest Engineering measured noise in compliance with the Environmental Protection Agency's Noise Measurement Manual. During the events (including rehearsal and sound test), the Stadium ensured that one of its employees or contractors:

(a) was present at the sound mixing desk (or in direct communication with the Sound Engineer for the event and was able to exercise ultimate control on the noise levels from the sound amplification equipment;

(b) could conduct and communicate with all of the acoustic consultants conducting the monitoring of the noise levels from the events; and

(c) was able to report sound levels to Stadium Management at all times

The MSFA Regulation requires that noise monitoring is carried out in accordance with the Queensland Government Environmental Protection (Noise) Policy 1997 (EPP Noise). Therefore the results of the noise monitoring analysis have been compared with the noise emission criteria specified schedule 3A "Acoustic Quality Compliance for Special Events" from this policy.

Protest Engineering noted that the internal Stadium criteria was complied with throughout the concert and during sound checks.

The Noise Monitoring report from this event is outlined within this document ***(Attachment B)***

4.4 Noise Issue Management

Whenever feedback was received regarding sound levels from the event, staff from Protest Engineering were requested to be dispatched to the locations (where possible) to obtain readings. This feedback may have come from a number of sources including social media, Hotline calls or emails to the venue.

There were no exceedances at the external monitoring points.

5.0 Transport and Traffic Management

5.1 Suncorp Stadium Traffic Management Plan

The venue has a number of levels for the Traffic Management Plan based on the expected crowd size:

NO PLAN:	0 – 5,000 patrons
LOW PLAN:	5,001 – 15,000 patrons
MEDIUM PLAN:	15,001 – 28,000 patrons
HIGH PLAN:	28,001 – 45,000 patrons
MAJOR PLAN:	45,001+ patrons

Due to the crowd size for the events, the MAJOR Traffic Management Plan was implemented.

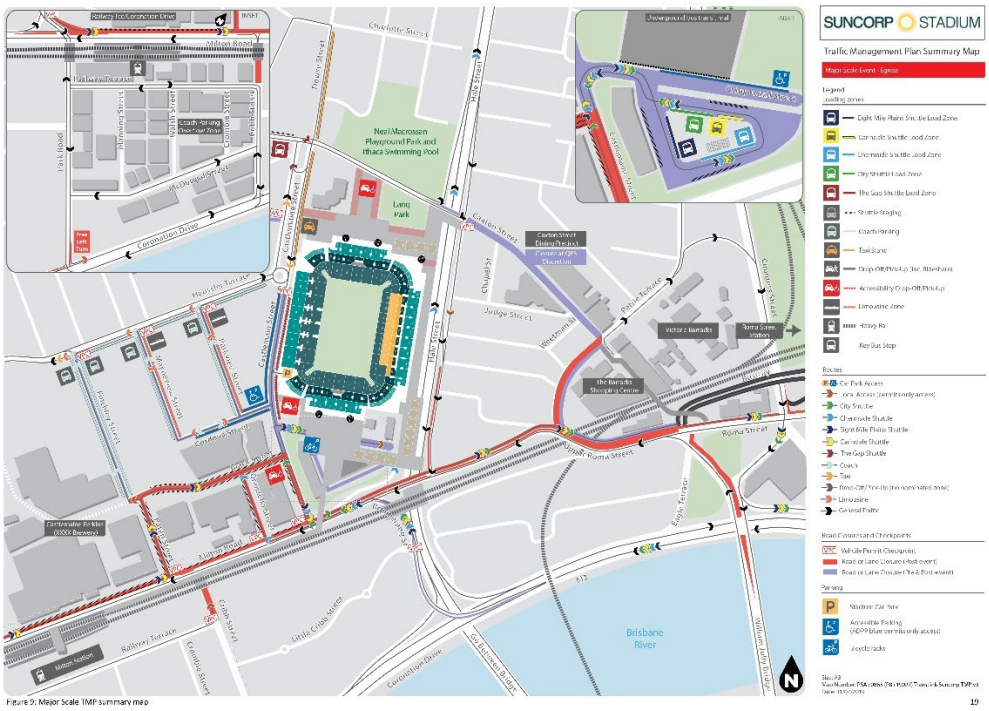


Figure 9: Major Scale TMP summary map

medical

5.2 Transport Services

5.2.1 Free Public Transport

As is standard practice for all events held at Suncorp Stadium, patrons were able to utilise free public transport from midday through to the last service of the day. This includes access to scheduled services as well as the dedicated event specific services implemented for the event.

These services are valid on all Transport for Brisbane bus services as well as any Queensland Rail City Network trains. Air train services and bus services not operated by Transport for Brisbane are not included.

A Transport Plan for a crowd of up to 49,999 was implemented for this event.

5.2.2 Buses

Transport for Brisbane ran dedicated services for the event for a period of 3 hours prior to the commencement of the main act.

Clearance time after the event was 1 hour.

5.2.3 Trains

Due to the spread of patrons on arrival, regular city network services are able to manage the crowd numbers without additional services , however with special rail services to all regions were running for approximately 1 hour after the event.

5.2.4 Taxis

The demand for taxi services after the concert was extremely high, resulting in a longer than normal exit from the patrons. Staff are on location to direct patrons to other public transport services however the crowd demographics suggested a higher propensity for the use of taxi services.

There were extensive delays post concert given the demographic and the numbers catching cabs rather than using the public transport system. All attempts were made to obtain additional taxis however there were still delays of patrons waiting for taxis. Staff suggested to patrons to utilize the regular public transport services or head towards the city to catch rides however many chose to remain and wait.

The venue will continue to work with QPS and Security to protect the integrity of the Traffic and Transport Plans which are designed to minimize traffic in the area for the benefit of local residents and the dispersal of patrons. This includes continuing to manage the access of ride sharing services.

5.2.5 Ride Share

As is standard policy, the venue does not provide dedicated ride sharing drop off and pick up locations.

5.2.6 Limousines

Limousine parking in Parkview and Mayneview Streets was monitored closely and in line with the usual arrangements for other major Stadium events. Barriers and Security guards were located at either end of Blaxland Street to ensure it was not used for drop-offs and pickups and Queensland Police were present in the street post-event to control noise and patron behavior. Limousine take-up for this event was very low.

5.2.7 Stadium Parking

Due to the nature of the event, internal stadium car parking is extremely limited with only Car Park 3 available for parking. This is generally limited to operational requirements only or VIP Parking needs.

6.0 Security and Crowd Management

Police and security numbers factor in crowd size, demographics and risk levels

6.1 General Admission (GA) Queuing

The front of the floor was sold as General Admission. Due to the potential for early queues, services were installed on the Northern Plaza to help facilitate the comfort and service of patrons who chose to arrive and queue early for the event.

Services included:

- Marquees to provide shading for patrons
- Free water stations
- Misting fans
- Red Frogs volunteers distributing water and available for patron welfare
- Power for phone charging
- Staff to provide information and updates

Prior to gates opening, patrons were then queued in number order to enter the gate areas for entry to turnstiles.

Wristbanding was conducted inside the gates after they had scanned through to control wristband collection and minimize risks of unauthorized patrons accessing the GA area.

6.2 Patron Behaviour

Staff continually monitor patron behaviour throughout the event and reported a number of incidents as outlined below:

NATURE OF INCIDENT	24/1/25	25/1/25
Evictions – Intoxication	6	9
Evictions – Patron Behaviour	7	13
Evictions – Smoking/Vaping	14	21
Refusals of Entry	2	0
Arrests	5	2
Notices to Appear	0	0
Liquor Infringements	0	0
Move On Directions	2	4
TOTAL	**36**	**49**

6.3 Risk Management

6.3.1 Emergency Management

The stadium applied its standard Risk Management procedures to all aspects of the concert and prepared contingency plans on additional risks associated with the specific nature of the concert involving emergency field evacuation and sever weather. As each concert is different, plans are revised based on the stage layout. Neither plan needed to be activated.

6.3.2 Risk Management - Field Patrons

The venue in association with Risk Management team assess the field names based on a number of factors including:

- Total linear width of egress pathways (in both normal and emergency mode)
- Stage configuration
- Risks of emergency associated with pyrotechnics and special effects
- Crowd Demographics

Catering, Toilet and merchandise facilities are made available at field level for patrons on the floor to avoid the need to go back to the main concourse. Additional messaging on the screens were also provided to assist in providing information to patrons.

Industrial size fans have been installed in Car Park 1 to assist with airflow and reduction of temperatures in the car park during concert events. This proved positive with a noticeable cooling in the car park area.

All patrons from the floor are directed up to the main concourse (Level 3 from the field) for egress. To ease congestion on concourse levels some aisle ways from the floor are blocked to avoid converging crowds. Patrons are directed to all open aisles. In addition the mid tier LED screens were also used to deliver directional messaging for patrons to direct to their nearest egress point.

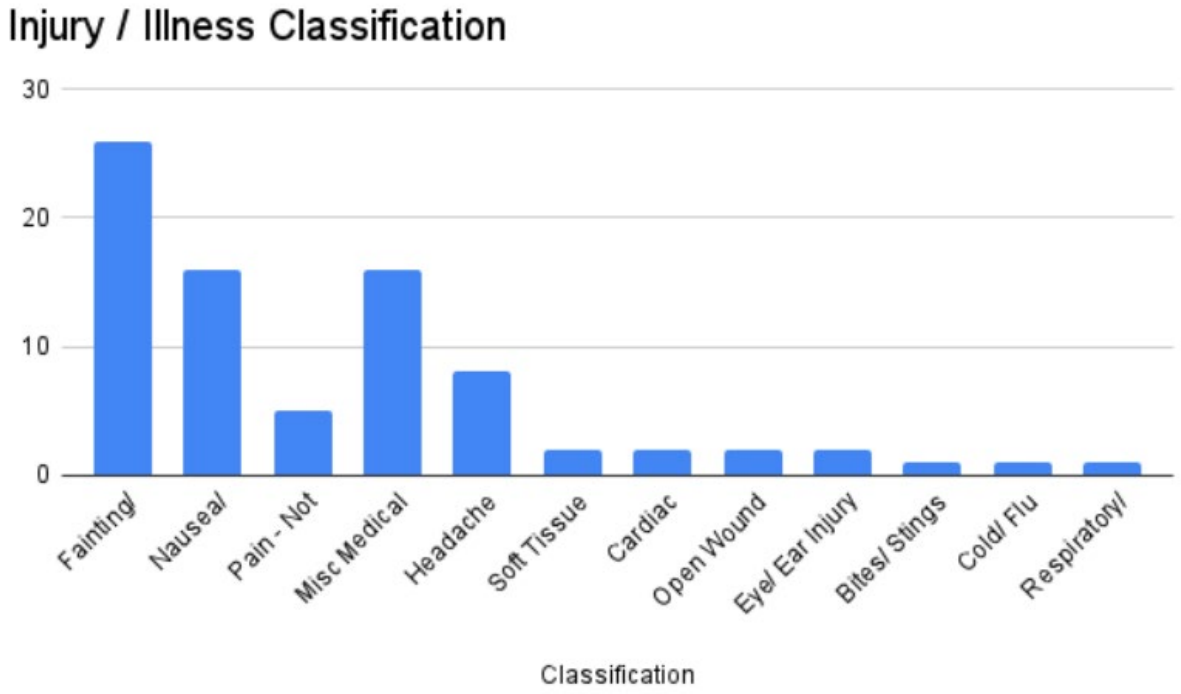
6.2.3 Medical and First Aid – INSERT MEDICAL INFORMATION

First Aid and Medical staff were on site for the duration of the event to assist with any patron injuries/health issues.

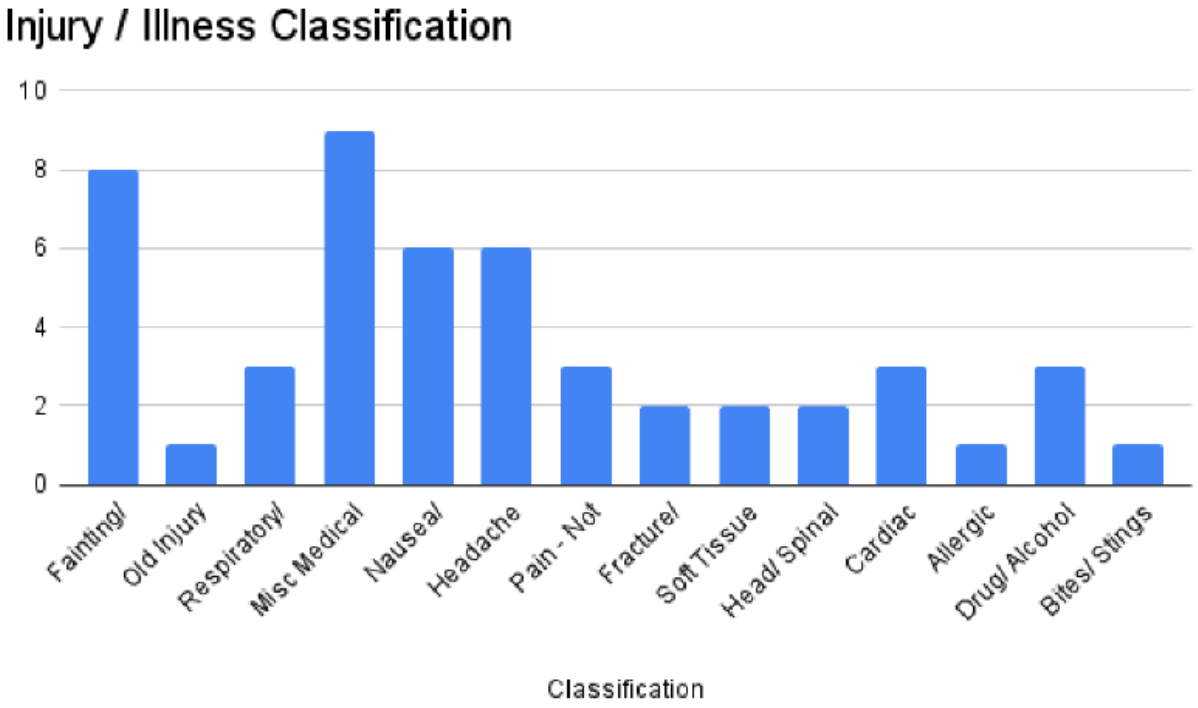
There was a significant number of medical issues, primarily related to heat/nausea. These were related heavily due to the weather conditions, duration of the event. Many GA patrons refused to leave their position once in place to use facilities or obtain water. The venue implemented continuous water on the barrier to assist staff in providing water to patrons.

The venue employed Red Frogs to assist with water distribution within the GA areas Following the number of incidents in the first two shows, additional Red Frogs staff were able to access the front barriers to assist with water distribution.

24/01/25



25/01/25



ATTACHMENT A: Patron Feedback

A1 Post Event Complaints and Compliments

NATURE OF FEEDBACK	24/1/25	25/1/25
Ticketing – Viewing	0	4
Ticketing – General	1	0
Ticketing - Categories	0	0
Sound Quality	0	0
Patron Behaviour	1	4
Staffing	2	3
Public Transport	0	0
Local Residents/Businesses	0	0
Operations	0	0
Catering	0	1
General Feedback	0	0

The Stadium website and social media platforms were used to communicate important event information for both shows. All incoming messages were monitored, and questions answered where necessary. Patron feedback from the concert was received. The venue received over 25,000 positive reactions & shares across social media posts regarding the concert. 2 complaints regarding taxis post show and concert staging were passed on to stakeholders and two compliments were received regarding staff.

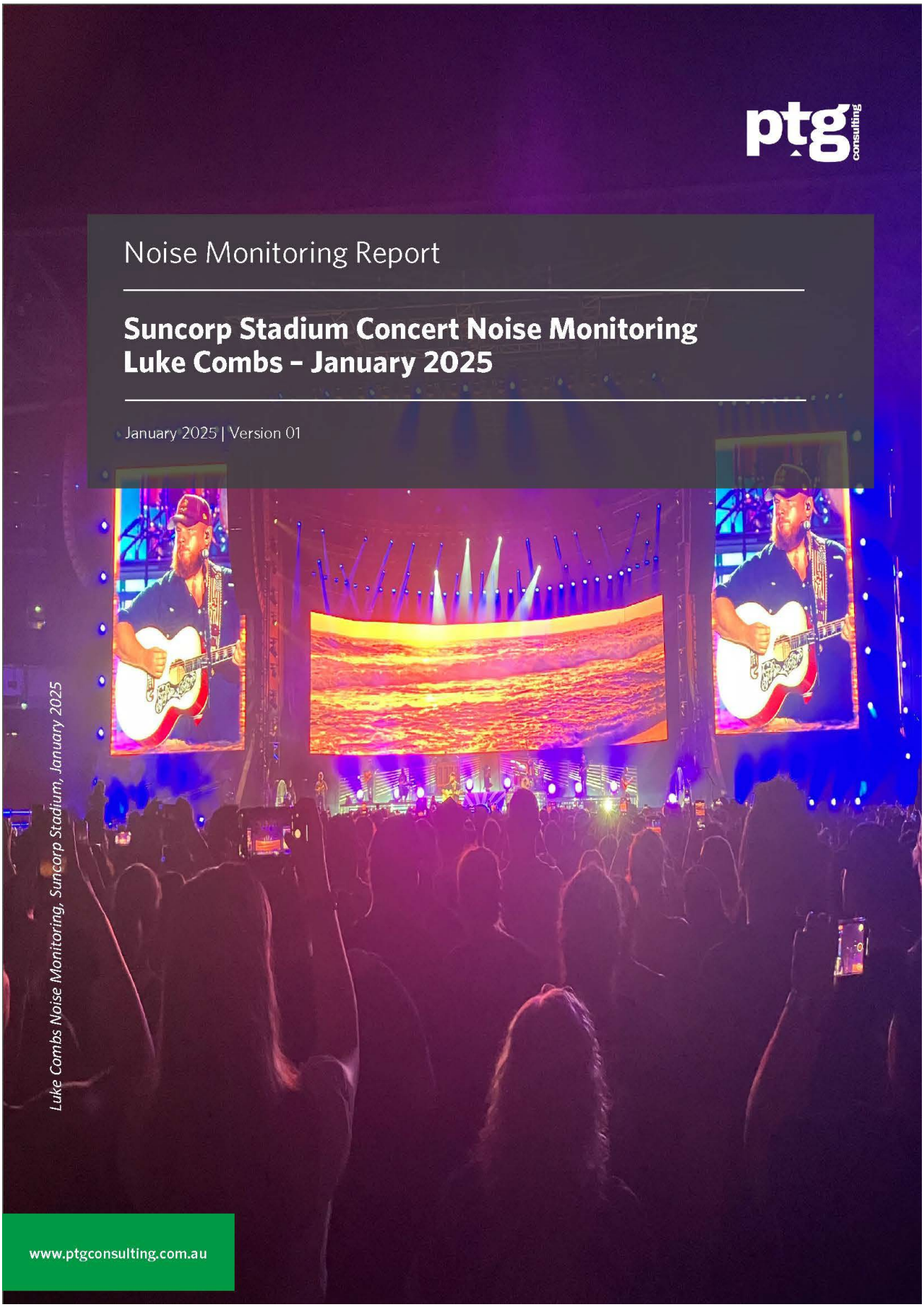
All complaints were responded to and feedback distributed to the relevant areas.

ATTACHMENT B: Acoustic Consultant Noise Monitoring Report

Noise Monitoring Report

Suncorp Stadium Concert Noise Monitoring
Luke Combs – January 2025

January 2025 | Version 01



Luke Combs Noise Monitoring, Suncorp Stadium, January 2025

www.ptgconsulting.com.au

CONTENTS

TABLE OF CONTENTS

»

REPORT DETAILS

Unique Document Identification	
Document Title	Suncorp Stadium Noise Monitoring Report
Project Number	A036
Document ID	pr_A036_PTG01432_Luke Combs 2025_01JM
Client	Suncorp Stadium
Client Contact	Graeme Kan

Protest Office Details	
Location	Brisbane
Address	Level 3, 159 Coronation Drive, Milton, Qld, 4064
Telephone	(07) 3444 6666
Email	Julie.mcdonagh@ptgconsulting.com.au
Web	www.ptgconsulting.com.au

Revision No.	Date	Comments
01-Draft	30/01/2025	Draft for Review

Document Approval

Author

Liam McDonagh
Senior Acoustic Engineer

Reviewed By

Julie McDonagh
Associate Director - Acoustics

EXECUTIVE SUMMARY

This report summarises the results of noise monitoring carried out during the Luke Combs, soundchecks and concert events on 23, 24 & 25 January 2025 at Suncorp Stadium, in accordance with Clause 8 of the Major Sports Facilities Authority (MSFA) Amendment Regulation (No.1) 2006, under the Sports Facilities Act 2001.

Noise monitoring was carried out at the five residential sites surrounding the stadium as specified in Clause 7 of the MSFA Regulation and at a location representative of the mixing console located within the stadium bowl.

The MSFA Regulation requires that noise monitoring is carried out in accordance with the Queensland Government Environmental Protection (Noise) Policy 1997 (EPP Noise). Note that subsequent revisions of the EPP Noise do not affect the requirements of the MSFA Regulation. Therefore, the results of the noise monitoring analysis have been compared with the noise emission criteria specified schedule 3A "Acoustic Quality Compliance for Special Events" from this policy.

The analysis has found that the internal stadium criterion was complied with throughout the concert and sound checks for all time periods.

Measured noise levels associated with the sound checks and concerts complied with the EPA "Special Events" external noise criteria of LAeq,15min 70 dB(A) at all the nominated external monitoring locations throughout the sound checks and the concerts for all time periods.

We understand that there were no noise complaints recorded during the sound checks and concert periods.

It was noted that there was light to moderate north westerly to north easterly wind conditions, during the line, sound checks on 23 and 24 January moving to south easterly for the concert on the 24 and all day on the 25 January which are likely to have influenced the noise emissions from the stadium to sound louder than usual to the south and west of the stadium, and quieter than usual on the eastern side.

GLOSSARY OF TERMS

A-weighted Level	As per dB(A) defined below.
Ambient Sound	Of an environment: the all-encompassing sound associated with that environment, being a composite of sounds from many sources, near and far.
Background Sound Level	The average of the lowest levels of the sound levels measured in an affected area in the absence of noise from occupants and from unwanted external ambient noise sources.
Decibel, dB	Unit of acoustic measurement. Measurements of power, pressure and intensity may be expressed in dB relative to standard reference levels.
L90, L10 etc.	A statistical measurement giving the sound pressure level which is exceeded for the given percentile of an observation period, i.e., L90 is the level which is exceeded for 90 percent of an observation period. L90 is commonly referred to as a basis for measuring the background sound level.
LAbg, T	The A-weighted background sound level measured over a time interval T.
LAeq, T	Equivalent continuous A-weighted sound pressure level. This is the value of the A-weighted sound pressure level of a continuous steady sound that, within a measurement time interval T, has the same A-weighted sound energy as the actual time-varying sound.
Sound Pressure Level, Lp, dB, of a sound	A measurement obtained directly obtained using a microphone and sound level meter. Sound pressure level varies with distance from a source and with changes to the measuring environment. Sound pressure level equals 20 times the logarithm to the base 10 of the ratio of the r.m.s. sound pressure to the reference sound pressure of 20 microPascals.
Sound Power Level, Lw, dB of a source	Sound power level is a measure of the sound energy emitted by a source, does not change with distance, and cannot be directly measured. Sound power level of a machine may vary depending on the actual operating load and is calculated from sound pressure level measurements with appropriate corrections for distance and/or environmental conditions. Sound power level is equal to 10 times the logarithm to the base 10 of the ratio of the sound power of the source to the reference sound power of 1 picoWatt.

1. REFERENCED DOCUMENTS

The following documents have been referenced during preparation of this report.

- "MSFA Amendment Regulation (No.1) 2006" – Queensland Government.
- Environmental Protection and Other Legislation Amendment Act (No. 2) 2008 (EPOLA No. 2)
- "Environmental Protection (Noise) Amendment Policy 1997" (Reprint No.3) as part of the Environmental Protection Act 1994 – Queensland Environmental Protection Agency.
- "Suncorp Stadium, State of Origin 2003 - Noise Impact Assessment Report" – Hyder Consulting
- "Suncorp Stadium, Robbie Williams Concert - Noise Impact Assessment Report" – Hyder Consulting
- "Suncorp Stadium, The Police Concert - Noise Impact Assessment Report" – Hyder Consulting
- "Suncorp Stadium, Andre Rieu Concert – Noise Impact Assessment Report" – Hyder Consulting
- "Suncorp Stadium, U2 Concert – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Bon Jovi Concert – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Justin Bieber Concert – Noise Monitoring Report" - Cardno.
- "Suncorp Stadium, Worlds Biggest Orchestra World Record Attempt – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Taylor Swift Concert 2013 – Noise Monitoring Report" - Cardno).
- "Suncorp Stadium, Bon Jovi Concert 2013 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Eminem Concert 2014 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, One Direction Concert 2015 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Foo Fighters Concert 2015 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Ed Sheeran Concert 2015 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Taylor Swift Concert 2015 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Coldplay Concert 2016 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Justin Bieber Concert March 2017 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Paul McCartney Concert December 2017 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Foo Fighters Concert January 2018 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Ed Sheeran Concerts March 2018 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Bon Jovi Concert December 2018 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Phil Collins Concert January 2019 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, U2 Concert November 2019 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Queen Concert February 2020 – Noise Monitoring Report" - Cardno
- "Suncorp Stadium, Guns 'n' Roses Concert November 2022 – Noise Monitoring Report" – Cardno
- "Suncorp Stadium, Elton John Concert January 2023 – Noise Monitoring Report" – Stantec
- "Suncorp Stadium, Red Hot Chilli Peppers Concert January 2023 – Noise Monitoring Report" – Stantec

- "Suncorp Stadium, Ed Sheeran Concerts March 2023 – Noise Monitoring Report" – Stantec
- "Suncorp Stadium, Paul McCartney Concert November 2023 – Noise Monitoring Report" – Protest Engineering.
- "Suncorp Stadium, Motley Crue & Def Leppard Concert November 2023 – Noise Monitoring Report" – Protest Engineering.
- "Suncorp Stadium, Foo Fighters Concert December 2023– Noise Monitoring Report" – Protest Engineering.
- "Suncorp Stadium, Pink Concert February & March 2024– Noise Monitoring Report" – Protest Engineering.
- "Suncorp Stadium, Travis Scott Concert October 2024– Noise Monitoring Report" – PTG Consulting.

2. NOISE EMISSION CRITERIA

It should be noted that the EPP (Noise) 1997, which forms part of the EPA 1994, has been superseded by the EPA 2019. However, the Environmental Protection and Other Legislation Amendment Act (No. 2) 2008 (EPOLA No. 2), allows for the previous criteria contained within the EPA 1994 to be retained for special events at Suncorp Stadium, in accordance with the MSFA Regulation (No 1) 2006. Therefore, the following assessment EPA 1994 criteria applies to amplified concert event noise emissions from the Stadium:

2.1. State Government EPA Criteria

The EPA Criteria for "Special Events" is as follows:

Schedule 3A - Acoustic quality compliance for special events:

Acoustic quality compliance levels

1) *An acoustic quality compliance level is authorised for a special event if the level is equal to or less than at least 1 of the following.*
   - a) *100 dB(A) Leq, measured at 15-minute intervals, measured at a point 50m directly in front of the front edge of the performance stage.*
   - b) *70 dB(A) Leq, measured at 15-minute intervals, measured at the locations mentioned in the Major Sports Facilities Regulation 2002, schedule 2, section 7(1).*
2) *To remove any doubt, it is declared that subsection (1) is satisfied even if the level measured is greater than 1 of the levels stated in the subsection.*

MSFA Regulation (No 1) 2006

'7 Noise

1) *During the event, including rehearsals and sound tests, the operator must ensure that the noise levels from the event are continuously monitored by a suitably qualified acoustic consultant at, or as near as practicable to, the following locations –*
   - *8.5 Petrie Terrace, City*
   - *15 Plunkett Street, Paddington*
   - *(1)36 Judge Street, City*
   - *26 Princess Street, City*
   - *31 Isaac Street, Milton*
2) *The operator must ensure the taking of the noise measurements complies with the Environmental Protection Agency's Noise Measurement Manual.*
3) *During the event, including rehearsals and sound tests, the Authority must ensure that 1 of its employees or its agent –*
   - a) *is present at the sound mixing desk for the event and is able to exercise ultimate control on the noise levels from the sound amplification equipment; and*
   - b) *can conduct and communicate with all of the acoustic consultants conducting the monitoring of the noise levels from the event.*

Notes:

(1) The original monitoring location in this area was 105 Hale Street. However, an alternative, nearby location has subsequently been selected. It was found from previous concerts, that 105 Hale Street was not an ideal monitoring site given the high levels of traffic noise incident on the site from Hale Street. The traffic noise was found to affect the monitored levels, resulting in difficulty in determining compliance. Therefore, 36 Judge Street was selected as being close to the original location but further away from Hale Street, and therefore, less affected by road traffic noise.

3. NOISE MONITORING METHODOLOGY

3.1. Noise Monitoring Locations

Continuous noise monitoring was conducted within the stadium bowl to determine whether internal noise levels complied with MSFA criteria. External noise monitoring was also conducted at the following locations as required by the MSFA Regulation:

- *8.5 Petrie Terrace*
- *15 Plunkett Street*
- *36 Judge Street*
- *26 Princess Street.*
- *31 Isaac Street*

The above external locations relative to the stadium are shown in Appendix A.

Continuous noise monitoring was also conducted within the stadium bowl to provide correlation with external noise levels.

3.2. Monitoring Methodology

The event noise monitoring was conducted to provide a co-ordinated set of noise level data at the five MSFA external locations and inside the stadium. Noise level loggers were installed at locations 1, 2, 3, 4, 5, and inside the stadium bowl at a location representative of the usual location at the mixing console.

The Luke Combs production comprised of a traditional stage layout at the northern end of the stadium with the mixing desk located approximately 50 metres from the front of house speakers. Monitoring was undertaken at this location as per the legislation.

Manual noise measurements were recorded using sound level meters at locations 1 to 5 and inside the stadium, to confirm the results of the noise loggers, identify any extraneous noise sources not associated with stadium noise emissions, and determine whether the criteria were being exceeded inside or outside the stadium.

There were line and sound checks carried out on 23 January prior to the day of the concerts providing intermittent audible noise emissions externally between 14:00 and 17:30. Line and sound checks were also carried out on the day of the concerts on 24 & 25 January between 11:00 and 22:15.

The general schedule was as follows:

Thursday, 23 January 2025

18:00 and 20:00	Backing tracks through the PA / Line checks / House PA / Luke Combs Soundcheck

Friday, 24 January 2025

10:45 to 16:00:	Backing tracks through the PA / Line checks / House PA / Soundcheck Support Bands
17:30 to 18:00:	Support - Lane Pittman
18:15 to 19:00:	Support – Mitchell Tenpenny
19:00 to 19:45:	Support –Jordan Davis

19:45 to 20:15: Evacuation (for storm)

20:30 to 22:15: Main Act – Luke Combs

Saturday, 25 January 2025

12:00 to 15:45: Line checks / House PA

17:30 to 18:00: Support - Lane Pittman

18:15 to 19:00: Support – Mitchell Tenpenny

19:15 to 20:00: Support – Jordan Davis

20:15 to 22:00: Main Act – Luke Combs

3.3. Instrumentation

Appendix B lists the instrumentation used for the noise monitoring. Calibration of all instrumentation was conducted before and after the measurement session with no significant (less than + / - 0.4 dB(A) drift in calibration noted.

All noise logger clocks were synchronised with the noise logger installed in the stadium to ensure a coherent set of measurement data.

3.4. Weather Conditions

Appendix C lists the weather conditions during the measurement session.

The weather conditions were mostly fine with some cloud throughout the monitoring period with a short storm on the evening of the 24th.

It was noted that there was light to moderate north westerly to north easterly wind conditions, during the line, sound checks on 23 and 24 January moving to south easterly for the concert on the 24th and all day on the 25 January which are likely to have influenced the noise emissions from the stadium to sound louder than usual to the south and west of the stadium, and quieter than usual on the eastern side.

4. NOISE MONITORING RESULTS

The results from the noise monitoring for 23, 24 & 25 January are shown graphically in Figure 1 to Figure 5. The charts show the following information:

- Noise levels measured in the stadium in terms of LAeq, 15min, or the equivalent continuous noise level during each 15-minute sample period.
- Noise levels measured at each external location in terms of LAeq, 15min noise levels.
- The LAeq,15 min relevant noise goal.

Figure 1: External Noise Measurements - Site 1 - 6/8 Petrie Terrace on 23, 24 & 25 January.

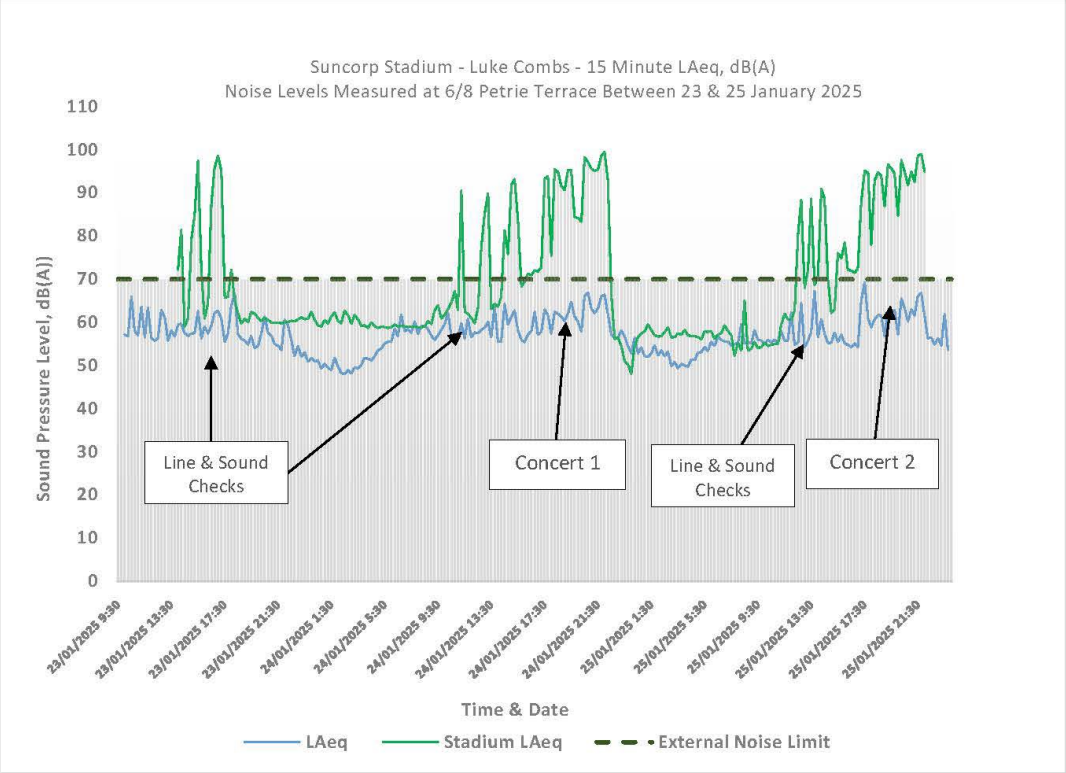


Figure 2: External Noise Measurements - Site 2 – 15 Plunkett Street on 23, 24 & 25 January.

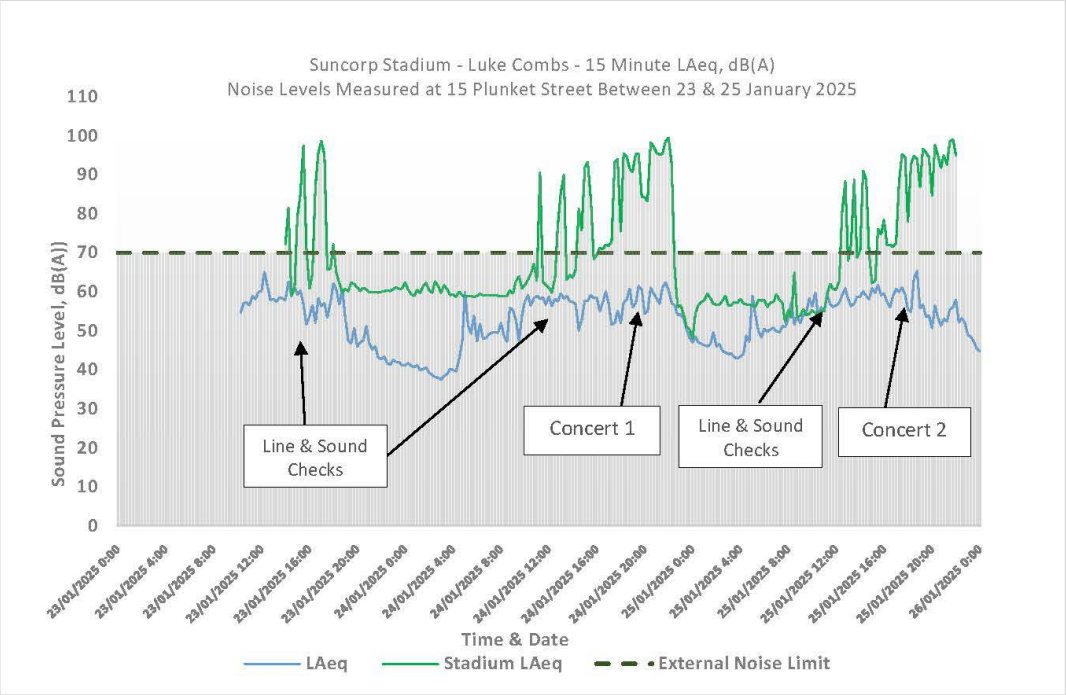


Figure 3: External Noise Measurements - Site 3 – 36 Judge Street on 23, 24 & 25 January.

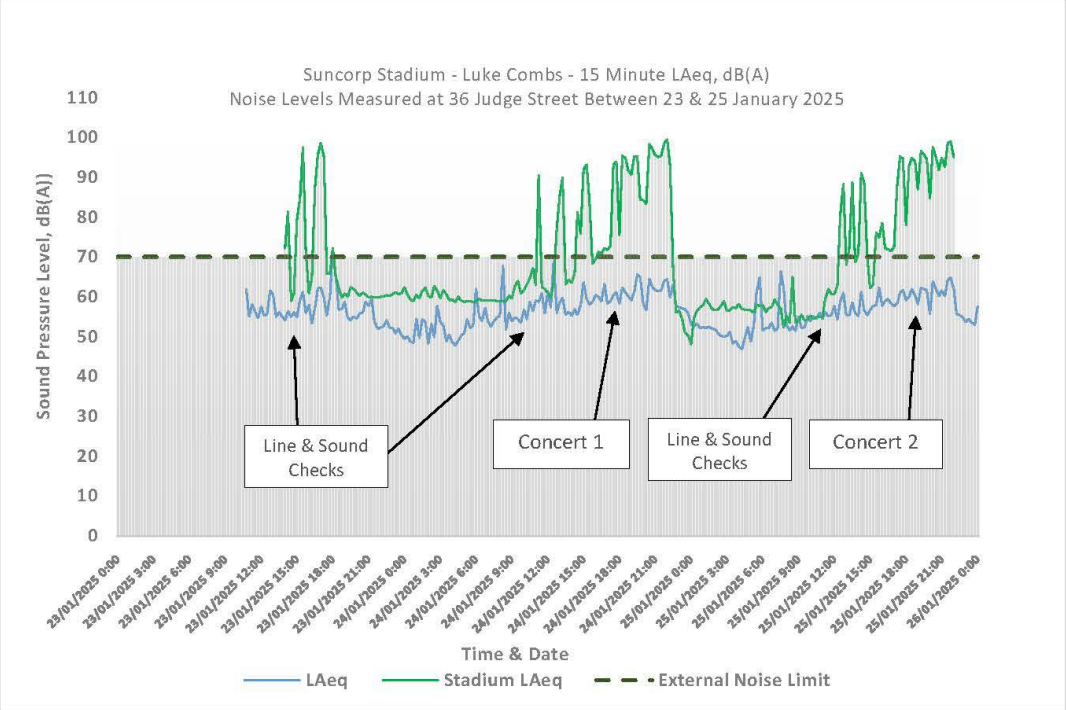


Figure 4: External Noise Measurements - Site 4 – 26 Princess Street on 23, 24 & 25 January.

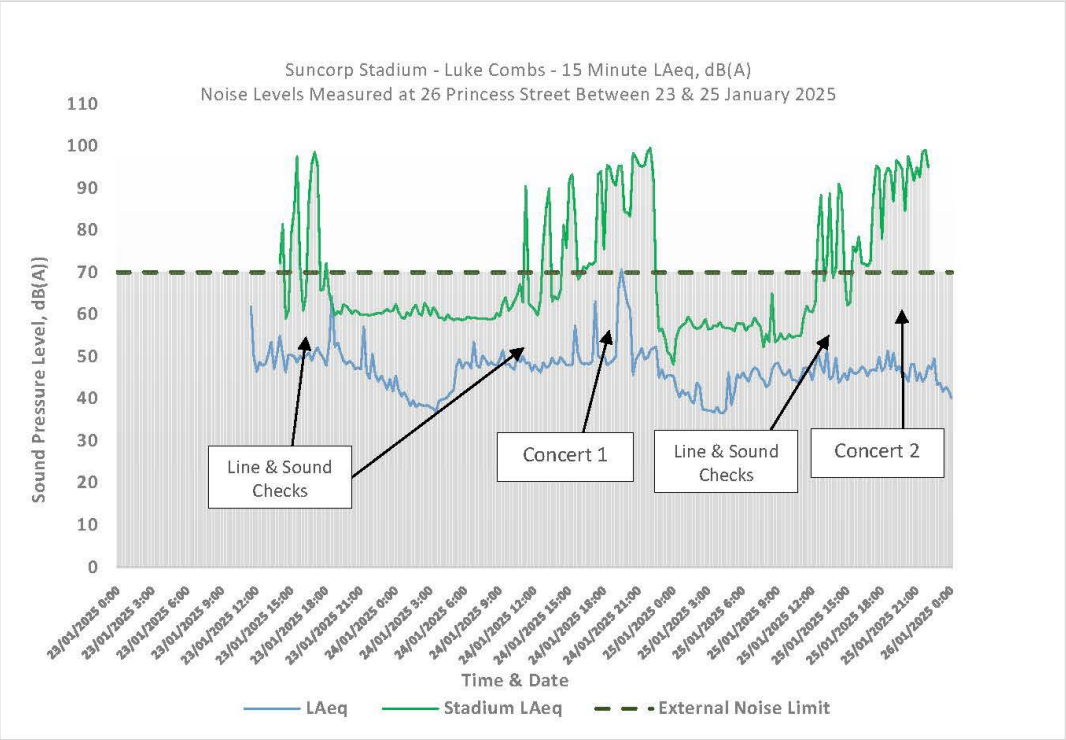
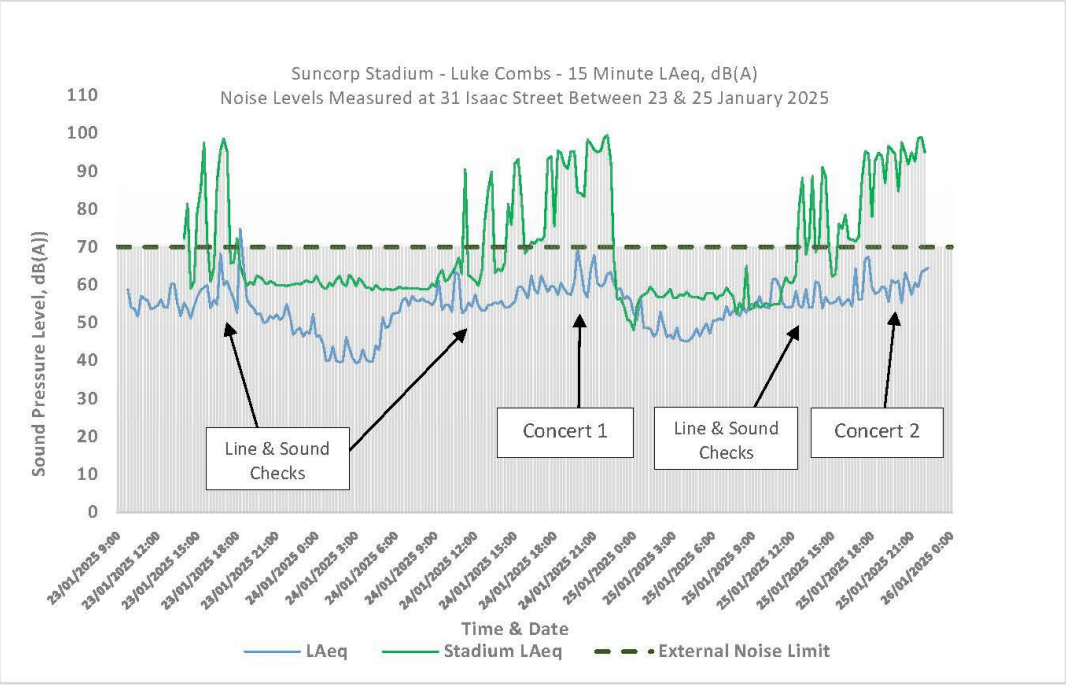


Figure 5: External Noise Measurements - Site 5 – 31 Isaac Street on 23, 24 & 25 January.



The above graphs indicate that the noise levels measured externally, were generally independent of the sound check noise levels inside the stadium at Princess and Plunkett Street but affected by the Stadium noise level at the locations closest to the Stadium (Locations 1, 3 and 5).

The concert was audible to some extent at all locations during the sound checks and the concert. There were loud levels of ambient noise noted at some of the locations that included mechanical plant, aircraft, fauna and local traffic, which were not associated with noise emissions from the stadium, particularly at Petrie Terrace, Princess and Isaac Streets.

It was noted that the weather conditions were mostly fine with some cloud throughout the monitoring period with a short storm on the evening of the 24th. In addition, there were light to moderate north westerly to north easterly wind conditions, during the line, sound checks on 23 and 24 January moving to south easterly for the concert on the 24th and all day on the 25 January which are likely to have influenced the noise emissions from the stadium to sound louder than usual to the south and west of the stadium, and quieter than usual on the eastern side.

The unattended measurements recorded were observed to vary considerably as can be seen in Figure 1 to Figure 5. This was generally observed to be due to concert noise, during the soundchecks and the concert, at the locations closest to the stadium. However, additional ambient conditions that could have potentially affected the external noise measurements were noted at each site and are detailed below in Table 1.

Table 1: Summary of External Site Measurement Conditions

Site		Measurement Conditions
1	8.5 Petrie Tce	Road traffic on Petrie Terrace and Hale Street was the primary sources of ambient noise during the day on all three days with some aircraft flyovers. Traffic noise was elevated due to wet roads during the evening of 24 January after the storm. Crowd noise from the stadium and the concert and sound checks (primarily guitar, vocals and bass) were clearly audible during the soundcheck and concert and were the primary source of noise once the roads in the surrounding area had been closed.
2	15 Plunkett St	The concert was faintly to clearly audible at times. Vocals were faintly audible during the sound check and the concert. The crowd was audible at times. Ambient noise consisted of regular traffic pass-bys on Dowse Street and local road traffic on Plunkett Street and some ambulances on Given Terrace. Distant traffic on Given Terrace was the main source on noise in the absence of local traffic. Traffic noise was higher than usual due to the rain during the concert on the 24th after the storm due to wet roads.
3	36 Judge St	Concert and sound checks were clearly audible at this location. Distant hum of traffic from Hale Street and Caxton Street, aircraft and helicopter flyovers, ambulances on Hale Street and car pass-bys on Judge Street were the main noise sources in addition to concert noise from the stadium. Traffic noise was elevated due to wet roads on the evening of 24th. Some continuous plant noise from nearby licensed premises was also continuously audible throughout the monitoring periods.
4	26 Princess St	During the sound check and concert, concert and crowd noise would have been faintly audible based on the measured levels and the weather conditions. The primary source of noise at this location was local air-conditioners, distant traffic noise and car pass-bys on Princess Street.
5	31 Isaac St	Concert and sound checks were clearly audible at this location. Road traffic noise (elevated due to wet roads on 24 January) on Isaac Street and Council trucks deploying road closure barriers, were the main source of noise during the concert with one or two aircraft / helicopter flyovers and ambulance sirens during the sound checks, as well as continuous air-conditioner noise from local residences.

5. ANALYSIS

Table 2 summarises the unattended measured (logger) LAeq, 15min noise levels for the line, sound checks and concerts. Measurements were recorded at all times during the sound checks and concerts when music was audible outside the Stadium.

The LAeq, 15min event noise levels reported below in Table 2 are based on an analysis of the noise logger data measured at the monitoring locations. Supplementary manual measurements were also carried out at these locations (Table 3) and generally agreed with those recorded by the loggers. There were some differences due to the slightly different time periods, the dynamic nature of the shows, and the difference in height between the noise logger and attended sound level meter microphones.

The grey shading in Table 2 and Table 3 depicts rain affected measurements.

Table 2: Continuous Logger $L_{Aeq,15min}$ Noise Levels, 23, 24 and 25 January 2025, Line & Sound Checks & Concert

Date	Time (recorded Previous 15 Minutes)	Sound Checks & Concert					
		(6) Stadium	(1) Petrie Terrace	(2) Plunkett Street	(3) Judge Street	(4) Princess Street	(5) Isaac Street
Criteria		100	70	70	70	70	70
23/01/25	14:00	72	60	58	54	55	55
23/01/25	14:15	81	60	63	56	51	54
23/01/25	14:30	59	58	59	55	46	51
23/01/25	14:45	61	57	61	56	51	54
23/01/25	15:00	79	57	59	55	50	57
23/01/25	15:15	85	58	60	59	50	59
23/01/25	15:30	98	63	57	61	49	59
23/01/25	15:45	72	56	52	56	50	60
23/01/25	16:00	61	59	54	58	50	54
23/01/25	16:15	65	57	57	53	50	56
23/01/25	16:30	88	59	52	57	51	55
23/01/25	16:45	96	62	58	62	49	68
23/01/25	17:00	99	63	56	62	51	60
23/01/25	17:15	95	61	57	60	52	61
23/01/25	17:30	66	56	54	55	51	58
23/01/25	17:45	66	57	57	60	50	56
23/01/25	18:00	72	64	62	72*	48	53
24 January 2025							
24/01/25	10:30	65	57	57	59	50	64
24/01/25	10:45	67	56	58	57	49	63
24/01/25	11:00	63	57	59	59	50	53
24/01/25	11:15	91	60	58	59	48	53
24/01/25	11:30	63	56	59	61	49	55
24/01/25	11:45	62	61	57	56	47	54
24/01/25	12:00	61	57	59	62	48	58
24/01/25	12:15	60	58	56	57	47	55
24/01/25	12:30	63	58	58	69	46	53
24/01/25	12:45	77	58	58	56	49	53
24/01/25	13:00	85	59	60	59	47	55
24/01/25	13:15	90	60	58	60	48	55
24/01/25	13:30	63	57	59	56	50	55
24/01/25	13:45	64	64	58	56	48	55
24/01/25	14:00	64	56	57	55	48	56
24/01/25	14:15	66	56	57	57	50	54
24/01/25	14:30	81	64	50	56	49	54
24/01/25	14:45	76	60	53	58	48	55

Date	Time (recorded Previous 15 Minutes)	Sound Checks & Concert					
		(6) Stadium	(1) Petrie Terrace	(2) Plunkett Street	(3) Judge Street	(4) Princess Street	(5) Isaac Street
Criteria		100	70	70	70	70	70
24/01/25	15:00	92	61	58	64	48	56
24/01/25	15:15	93	63	58	59	48	59
24/01/25	15:30	84	58	59	58	57	60
24/01/25	15:45	68	56	58	59	51	58
24/01/25	16:00	69	55	59	60	49	57
24/01/25	16:15	71	57	55	60	48	62
24/01/25	16:30	71	58	57	59	48	59
24/01/25	16:45	72	63	60	63	48	58
24/01/25	17:00	72	57	57	58	49	63
24/01/25	17:15	73	58	52	59	63	60
24/01/25	17:30	93	63	52	60	50	58
24/01/25	17:45	94	62	55	61	50	60
24/01/25	18:00	76	57	52	58	50	60
24/01/25	18:15	95	63	57	62	48	57
24/01/25	18:30	95	62	58	61	49	61
24/01/25	18:45	92	61	61	60	49	59
24/01/25	19:00	91	60	56	59	50	58
24/01/25	19:15	95	62	57	61	66	57
24/01/25	19:30	95	65	62	66	71*	61
24/01/25	19:45	84	61	61	65	66	70
24/01/25	20:00	84	60	54	58	63	64
24/01/25	20:15	83	58	55	57	61	58
24/01/25	20:30	98	66	61	65	46	57
24/01/25	20:45	97	67	60	63	49	64
24/01/25	21:00	96	63	58	62	51	68
24/01/25	21:15	95	62	57	62	52	61
24/01/25	21:30	95	63	61	62	49	60
24/01/25	21:45	99	66	62	64	50	60
24/01/25	22:00	100	66	61	64	52	63
24/01/25	22:15	93	62	57	60	52	63
24/01/25	22:30	66	57	57	63	52	60
25 January 2025							
25/01/25	13:15	72	56	56	55	52	48
25/01/25	13:30	89	58	57	59	45	46
25/01/25	13:45	69	67	59	56	45	47
25/01/25	14:00	71	57	59	55	50	53
25/01/25	14:15	91	61	60	61	44	50
25/01/25	14:30	89	57	59	57	45	46
25/01/25	14:45	70	55	58	55	46	47
25/01/25	15:00	62	55	61	57	44	46
25/01/25	15:15	63	58	60	58	47	49
25/01/25	15:30	76	56	62	58	46	46
25/01/25	15:45	75	57	59	62	46	45
25/01/25	16:00	79	55	60	58	47	45
25/01/25	16:15	72	55	58	59	48	46
25/01/25	16:30	72	54	56	59	47	47
25/01/25	16:45	72	55	59	58	45	48
25/01/25	17:00	73	54	61	58	47	47
25/01/25	17:15	88	65	60	58	47	48
25/01/25	17:30	95	69	61	61	47	50
25/01/25	17:45	95	61	59	62	50	47
25/01/25	18:00	78	59	55	59	47	51

Date	Time (recorded Previous 15 Minutes)	Sound Checks & Concert					
		(6) Stadium	(1) Petrie Terrace	(2) Plunkett Street	(3) Judge Street	(4) Princess Street	(5) Isaac Street
Criteria		100	70	70	70	70	70
25/01/25	18:15	93	61	55	60	48	51
25/01/25	18:30	95	62	64	62	51	51
25/01/25	18:45	94	62	65	60	47	51
25/01/25	19:00	87	57	56	58	51	54
25/01/25	19:15	97	63	57	62	47	52
25/01/25	19:30	96	62	54	62	48	53
25/01/25	19:45	95	63	54	62	46	54
25/01/25	20:00	85	57	51	56	46	52
25/01/25	20:15	98	66	57	64	44	54
25/01/25	20:30	95	63	54	62	48	53
25/01/25	20:45	92	60	51	60	48	55
25/01/25	21:00	95	63	53	62	44	55
25/01/25	21:15	93	62	53	60	46	54
25/01/25	21:30	99	66	56	64	44	57
25/01/25	21:45	99	67	56	65	45	54
25/01/25	22:00	95	61	58	62	48	54
25/01/25	22:15	-	56	52	56	47	54
25/01/25	22:30	-	57	53	55	50	-

*Noise Level due to ambient noise sources and not noise from the stadium.

Table 3: Manually Recorded LAeq,15min Noise Levels, 23, 24 and 25 January 2025 – Line & Sound Checks & Concert

Date	Time (recorded Previous 15 Minutes)	Sound Checks & Concert					
		(6) Stadium	(1) Petrie Terrace	(2) Plunkett Street	(3) Judge Street	(4) Princess Street	(5) Isaac Street
Criteria		100	70	70	70	70	70
23/01/25	14:00	-	-	-	-	55	-
23/01/25	14:15	-	-	-	-	51	-
23/01/25	14:30	-	60	-	-	46	-
23/01/25	14:45	57	55	-	-	51	-
23/01/25	15:00	61	55	-	-	50	-
23/01/25	15:15	82	60	-	-	50	-
23/01/25	15:30	86	56	-	-	49	-
23/01/25	15:45	97	62	-	-	50	-
23/01/25	16:00	69	57	-	-	50	-
23/01/25	16:15	56	-	-	-	50	-
23/01/25	16:30	58	-	-	-	51	-
23/01/25	16:45	88	-	-	-	49	-
23/01/25	17:00	95	60	-	-	51	-
23/01/25	17:15	98	60	-	-	52	-
23/01/25	17:30	93	56	-	-	51	-
23/01/25	17:45	-	-	-	-	50	-
23/01/25	18:00	-	-	-	-	48	-
24 January 2025							
24/01/25	10:30		-	-	-	50	-
24/01/25	10:45		-	-	-	49	-
24/01/25	11:00	66	-	-	-	50	-
24/01/25	11:15	80	-	-	59	48	58
24/01/25	11:30	89	-	-	58	49	58
24/01/25	11:45	63	56	-	-	47	61
24/01/25	12:00		61	-	-	48	63
24/01/25	12:15	58	56	-	-	47	-

Date	Time (recorded Previous 15 Minutes)	Sound Checks & Concert					
		(6) Stadium	(1) Petrie Terrace	(2) Plunkett Street	(3) Judge Street	(4) Princess Street	(5) Isaac Street
Criteria		100	70	70	70	70	70
24/01/25	12:30	63	57	-	-	46	-
24/01/25	12:45	64	56	52	-	49	-
24/01/25	13:00	78	56	53	-	47	-
24/01/25	13:15	84	57	56	-	48	-
24/01/25	13:30		-	-	-	50	62
24/01/25	13:45		-	-	-	48	-
24/01/25	14:00		-	-	57	48	-
24/01/25	14:15		-	-	54	50	59
24/01/25	14:30	68	-	-	55	49	59
24/01/25	14:45	80	-	-	54	48	60
24/01/25	15:00	75	-	-	57	48	59
24/01/25	15:15	92	58	-	-	48	63
24/01/25	15:30	91	59	-	-	57	60
24/01/25	15:45	73	57	-	-	51	-
24/01/25	16:00	-	-	-	-	49	64
24/01/25	16:15		-	-	-	48	-
24/01/25	16:30		-	-	-	48	-
24/01/25	16:45		-	-	-	48	-
24/01/25	17:00		-	-	-	49	-
24/01/25	17:15		-	-	58	63	-
24/01/25	17:30		-	-	58	50	67
24/01/25	17:45	93	-	-	60	50	62
24/01/25	18:00	93	-	-	61	50	62
24/01/25	18:15	80	-	-	58	48	63
24/01/25	18:30	95	60	-	-	49	60
24/01/25	18:45	94	60	-	-	49	-
24/01/25	19:00	90	59	56	-	50	-
24/01/25	19:15	92	58	56	-	66	-
24/01/25	19:30	94	-	57	62	71[5]	-
24/01/25	19:45	95	-	55	63	66	-
24/01/25	20:00	-	-	-	-	63	-
24/01/25	20:15	-	-	-	-	61	-
24/01/25	20:30	82	-	-	-	46	66
24/01/25	20:45	96	-	-	66	49	64
24/01/25	21:00	95	-	-	65	51	63
24/01/25	21:15	94	-	-	63	52	61
24/01/25	21:30	93	-	-	63	49	61
24/01/25	21:45	94	-	-	63	50	61
24/01/25	22:00	96	-	59	66	52	-
24/01/25	22:15	98	-	59	67	52	-
24/01/25	22:30	-	-	-	-	52	-
25 January 2025							
25/01/25	12:00	-	-		54	45	
25/01/25	12:15	61			58	48	
25/01/25	12:30	57			53	51	56
25/01/25	12:45	81			58	48	55
25/01/25	13:00	87	61			46	60
25/01/25	13:15		52	-		52	56
25/01/25	13:30	72	56	-	-	45	60
25/01/25	13:45	88	57	-	-	45	59
25/01/25	14:00	60	70	-	-	50	59

Suncorp Stadium Noise Monitoring
Luke Combs, January 2025

19

Date	Time (recorded Previous 15 Minutes)	Sound Checks & Concert					
		(6) Stadium	(1) Petrie Terrace	(2) Plunkett Street	(3) Judge Street	(4) Princess Street	(5) Isaac Street
Criteria		100	70	70	70	70	70
25/01/25	14:15	75	58	-	-	44	56
25/01/25	14:30	91	-	-	61	45	57
25/01/25	14:45	86	-	-	56	46	56
25/01/25	15:00	68	-	-	54	44	62
25/01/25	15:15	58	-	-	55	47	-
25/01/25	15:30	54	54	-	-	46	59
25/01/25	15:45	73	54	-	-	46	61
25/01/25	16:00	-	-	-	-	47	-
25/01/25	16:15	-	-	-	-	48	-
25/01/25	16:30	-	-	-	-	47	-
25/01/25	16:45	-	-	-	-	45	-
25/01/25	17:00	-	-	-	-	47	-
25/01/25	17:15	-	-	-	57	47	-
25/01/25	17:30	91	-	-	58	47	-
25/01/25	17:45	94	-	-	61	50	64
25/01/25	18:00	94	-	-	61	47	61
25/01/25	18:15	77	-	-	61	48	62
25/01/25	18:30	92	60	-	-	51	59
25/01/25	18:45	93	60	-	-	47	60
25/01/25	19:00	93	60	-	-	51	-
25/01/25	19:15	88	53	55	-	47	-
25/01/25	19:30	95	-	54	63	48	-
25/01/25	19:45	95	-	54	63	46	-
25/01/25	20:00	93	-	60	63	46	-
25/01/25	20:15	87	-	-	54	44	-
25/01/25	20:30	96	65	-	-	48	63
25/01/25	20:45	93	62	-	-	48	60
25/01/25	21:00	91	59	-	-	44	61
25/01/25	21:15	93	63	61	-	46	-
25/01/25	21:30	92	-	56	62	44	-
25/01/25	21:45	98	-	66	66	45	-
25/01/25	22:00	91	-	-	67	48	63
25/01/25	22:15	-	-	-	66	47	64
25/01/25	22:30	-	-	-	-	50	-

Notes:

1. *Approximate time period for comparison purposes. The 15-minute measurement period was generally within 1-4 minutes of the stated times.*
2. *The values for Princess Street were obtained in real time on concert day from a remote access noise logging station. Therefore, these results have been added to the attended noise measurement table for information.*
3. *The attended handheld measurements inside the stadium on 25 January were noted to be 1-2 dB(A) less than those measured by the logger. This was due to unavoidable shielding at the attended monitoring location primarily as a result of shielding from rain protection and the audience attending the concert.*
4. *Grey shaded entries indicate light to moderate rain periods or showers.*
5. *External noise level exceedances were due to ambient noise sources and not noise from the stadium.*

We understand that no complaints were received on any of the three days, during any of the line, soundchecks or concerts.

The above results indicate that all internal measurements recorded within the stadium for the duration of the events, complied with the 100 dB(A) EPA "Special Events" internal LAeq,15 min noise criteria, for all time periods.

Measured noise levels associated with the sound checks and concerts also complied with the EPA "Special Events" external noise criteria of LAeq,15min 70 dB(A) at all external locations throughout the sound checks and the concert for all time periods.

It was noted that the weather conditions were mostly fine with some cloud throughout the monitoring period with a short storm on the evening of the 24th. In addition, there were light to moderate north westerly to north easterly wind conditions, during the line, sound checks on 23 and 24 January moving to south easterly for the concert on the 24th and all day on the 25 January which are likely to have influenced the noise emissions from the stadium to sound louder than usual to the south and west of the stadium, and quieter than usual on the eastern side.

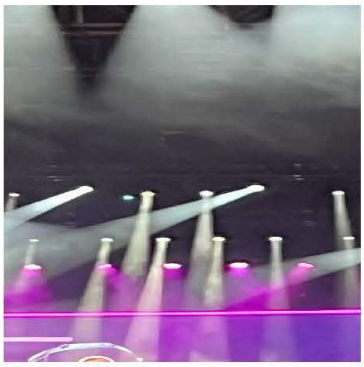
6. CONCLUSION

Noise emissions were monitored in accordance with the specified MSFA Regulation and EPP (Noise) 1997 requirements.

Concert noise emissions from Suncorp Stadium measured during the Luke Combs production line checks, sound checks and concerts on 23, 24 and 25 January 2025, indicated compliance with the MSFA Regulation for all the external noise monitoring sites for all time periods.

Noise emissions from the Luke Combs production inside the stadium complied with the internal EPP criteria for the duration of both concerts and all sound checks and line checks at the stadium internal monitoring location.

Luke Combs, January 2025



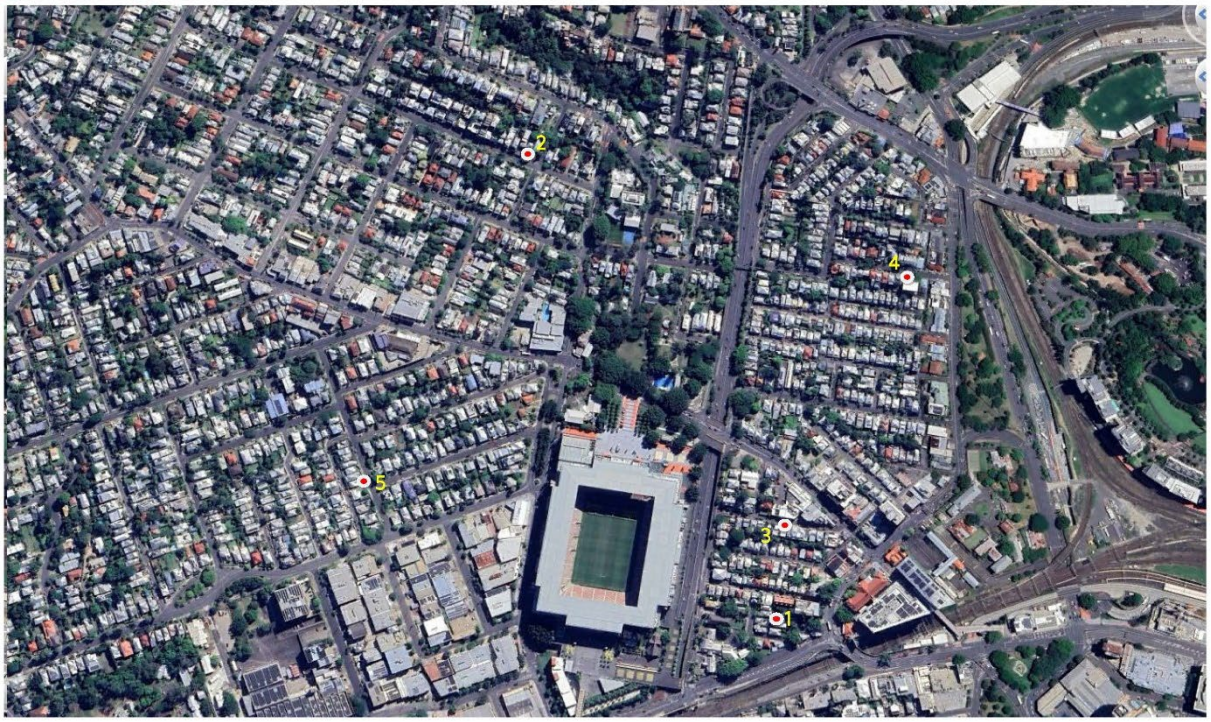
APPENDIX A

External Measurement Locations

23

APPENDIX A

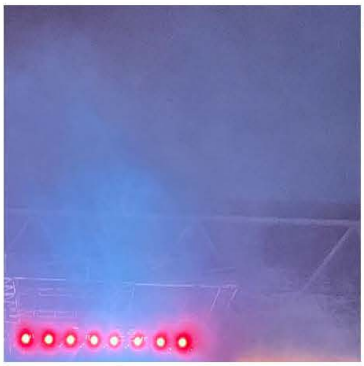
Figure A1 External Measurement Locations



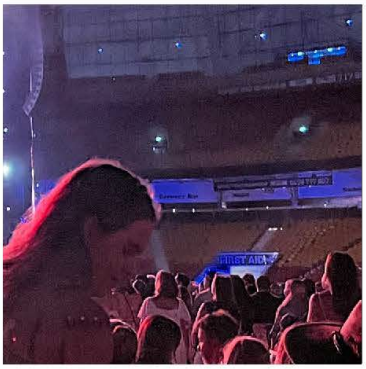
Suncorp Stadium Noise Monitoring
Luke Combs, January 2025

24

B



APPENDIX B
Instrumentation



25

APPENDIX B

Table B1 Instrumentation – February 2024

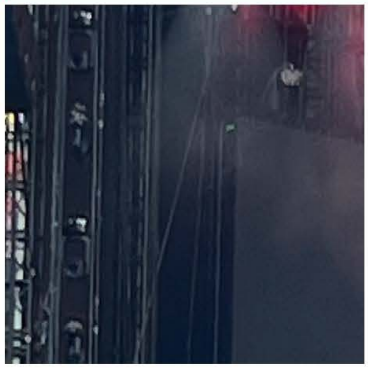
Site		Noise Logger	Serial No.	Sound Level Meter	Serial No.
Sound Level Meters & Loggers					
-	Stadium Bowl	Rion NL-21	00276274	Rion NA-28	00722662
1	6/8 Petrie Terrace	Rion NL-21	0006651	Rion NL-21	00776884
2	15 Plunkett Street	Rion NL-21	00365350	Rion NA-43	00430292
3	36 Judge Street	Rion NL-21	01277353	Rion NL-21	00776884
4	26 Princess Street	Rion NL-43	00230099	Rion NL-43	00230099
5	31 Isaac Street	Larson Davis LxT	0006675	Rion NL-43	00430292
Calibrators					
		Rion NC-75	34835117		
		Rion NC-75	34835116		

All items of equipment used for this project hold current NATA Calibration certificates.

Table B1 Instrumentation – Pre and Post Measurement Calibration

Site		Noise Logger / SLM	Serial No.	Pre- Measurement Calibration Level, dB(A)	Post- Measurement Calibration Level, dB(A)
Unattended Noise Loggers					
1	Stadium Bowl	Rion NL-21	00276274	93.9	93.9
2	6/8 Petrie Terrace	Larson Davis LxT	0006651	94.0	94.0
3	15 Plunkett Street	Rion NL-21	00365350	94.0	93.9
4	36 Judge Street	Rion NL-21	01277353	94.1	93.9
5	26 Princess Street	Rion NL-43	00230099	93.9	94.0
6	31 Isaac Street	Larson Davis LxT	0006675	94.0	94.0
Hand Held Sound Level Meters					
7	Stadium Bowl	Rion NA-28	00722662	94.0	94.1
8	Judge St. / Petrie Tce.	Rion NL-21	00776884	94.2	93.8
9	Isaac / Plunkett Sts.	Rion NA-43	00430292	93.7	93.9

APPENDIX C
Weather Conditions



27

APPENDIX C

Table C1: Monitoring Weather Conditions

Date & Time	Temp °C	Humidity %	Wind Speed m/s	Wind Direction	Rain 10 min mm
23/01/2025 0:00	26.7	92	0	N	0
23/01/2025 0:30	26.1	94	0	N	0
23/01/2025 1:00	25.6	93	0	N	0
23/01/2025 1:30	25.6	83	4	SW	0
23/01/2025 2:00	25.0	80	0	N	0
23/01/2025 2:30	25.2	68	6	SSW	0
23/01/2025 3:00	24.6	67	4	SW	0
23/01/2025 3:30	24.6	68	6	WSW	0
23/01/2025 4:00	24.6	67	6	WSW	0
23/01/2025 4:30	24.5	69	2	SSW	0
23/01/2025 5:00	24.7	70	6	SSW	0
23/01/2025 5:30	24.7	70	4	SSE	0
23/01/2025 6:00	23.8	83	4	WNW	0
23/01/2025 6:30	24.4	83	0	N	0
23/01/2025 7:00	27.3	69	0	N	0
23/01/2025 7:30	27.6	65	6	SE	0
23/01/2025 8:00	29.5	61	-	-	0
23/01/2025 8:30	29.1	57	6	ESE	0
23/01/2025 9:00	29.4	61	-	-	0
23/01/2025 9:30	29.9	60	9	SE	0
23/01/2025 10:00	29.9	60	6	SE	0
23/01/2025 10:30	30.1	62	13	E	0
23/01/2025 11:00	28.6	56	15	ESE	0
23/01/2025 11:30	28.6	60	13	ESE	0
23/01/2025 12:00	29.0	58	13	ESE	0
23/01/2025 12:30	29.0	58	13	NE	0
23/01/2025 13:00	29.7	57	11	NE	0
23/01/2025 13:30	29.8	57	9	NE	0
23/01/2025 14:00	30.7	53	7	NNE	0
23/01/2025 14:30	30.7	53	9	NNE	0
23/01/2025 15:00	29.9	55	13	NNE	0
23/01/2025 15:30	30.1	52	11	NNE	0
23/01/2025 16:00	29.8	56	9	NNE	0
23/01/2025 16:30	29.6	58	9	NNE	0
23/01/2025 17:00	28.5	64	11	NNE	0
23/01/2025 17:30	27.5	66	9	NNE	0
23/01/2025 18:00	27.5	68	7	N	0
23/01/2025 18:30	25.8	78	7	NNE	0.4
23/01/2025 19:00	25.9	77	9	NNE	0

Date & Time	Temp °C	Humidity %	Wind Speed m/s	Wind Direction	Rain 10 min mm
23/01/2025 19:30	26.0	78	6	NNE	0
23/01/2025 20:00	26.4	78	6	N	0
23/01/2025 20:30	26.2	78	6	NNW	0
23/01/2025 21:00	26.2	77	4	N	0
23/01/2025 21:30	26.2	78	4	N	0
23/01/2025 22:00	26.3	79	4	N	0
23/01/2025 22:30	26.5	79	2	NNE	0
23/01/2025 23:00	26.7	81	6	NNE	0
23/01/2025 23:30	26.9	83	6	NE	0
24/01/2025 0:00	26.9	86	4	N	0
24/01/2025 0:30	26.6	80	4	W	0
24/01/2025 1:00	26.0	84	0	N	0
24/01/2025 1:30	25.3	88	0	N	0
24/01/2025 2:00	26.2	87	4	NW	0
24/01/2025 2:30	25.9	88	4	NW	0
24/01/2025 3:00	25.7	88	4	NNW	0
24/01/2025 3:30	25.6	87	4	NW	0
24/01/2025 4:00	25.4	86	6	NW	0
24/01/2025 4:30	25.0	87	2	NNE	0
24/01/2025 5:00	24.5	89	0	N	0
24/01/2025 5:30	24.3	90	0	N	0
24/01/2025 6:00	24.5	90	0	N	0
24/01/2025 6:30	25.2	87	4	NE	0
24/01/2025 7:00	25.6	86	4	E	0
24/01/2025 7:30	26.1	79	4	NE	0
24/01/2025 8:00	26.6	76	4	NNE	0
24/01/2025 8:30	27.6	73	4	N	0
24/01/2025 9:00	28.3	75	4	NE	0
24/01/2025 9:30	28.5	71	0	N	0
24/01/2025 10:00	29.3	70	4	NNE	0.2
24/01/2025 10:30	29.3	71	4	N	0
24/01/2025 11:00	30.4	70	2	NNE	0
24/01/2025 11:30	30.7	67	4	NW	0
24/01/2025 12:00	31.7	63	4	NNW	0
24/01/2025 12:30	33.0	60	6	NNW	0
24/01/2025 13:00	33.3	59	6	NW	0
24/01/2025 13:30	34.4	56	6	NW	0
24/01/2025 14:00	34.0	55	6	NW	0
24/01/2025 14:30	34.5	55	4	NW	0
24/01/2025 15:00	35.4	54	6	NNW	0
24/01/2025 15:30	34.7	53	7	NNW	0
24/01/2025 16:00	35.0	54	6	N	0

Date & Time	Temp °C	Humidity %	Wind Speed m/s	Wind Direction	Rain 10 min mm
24/01/2025 16:30	34.8	53	7	NW	0
24/01/2025 17:00	34.9	54	6	NNW	0
24/01/2025 17:30	35.0	54	4	NNW	0
24/01/2025 18:00	34.5	53	6	NNW	0
24/01/2025 18:30	33.6	58	4	NNE	0
24/01/2025 19:00	31.5	71	7	E	0
24/01/2025 19:30	31.0	71	13	ESE	0
24/01/2025 20:00	25.4	69	17	ENE	4.6
24/01/2025 20:30	25.3	88	15	ESE	0
24/01/2025 21:00	25.1	86	9	SE	0
24/01/2025 21:30	25.3	80	9	SE	0
24/01/2025 22:00	25.3	76	7	SE	0
24/01/2025 22:30	25.2	75	7	SSE	0
24/01/2025 23:00	25.3	77	6	SE	0
24/01/2025 23:30	25.4	76	9	SSE	0
25/01/2025 0:00	25.3	77	7	SSE	0
25/01/2025 0:30	25.3	77	7	SE	0
25/01/2025 1:00	25.3	76	7	SE	0
25/01/2025 1:30	25.3	75	7	SE	0
25/01/2025 2:00	25.3	73	9	ESE	0
25/01/2025 2:30	25.2	73	6	SE	0
25/01/2025 3:00	25.2	72	6	SSE	0
25/01/2025 3:30	24.9	73	6	SE	0
25/01/2025 4:00	24.9	74	4	SE	0
25/01/2025 4:30	24.6	73	7	SSE	0
25/01/2025 5:00	24.4	73	2	SE	0
25/01/2025 5:30	24.5	73	2	SE	0
25/01/2025 6:00	25.0	71	6	SE	0
25/01/2025 6:30	25.6	68	9	SE	0
25/01/2025 7:00	26.3	66	9	SSE	0
25/01/2025 7:30	26.9	63	9	SE	0
25/01/2025 8:00	27.1	61	13	SE	0
25/01/2025 8:30	27.6	59	11	ESE	0
25/01/2025 9:00	27.8	60	11	E	0
25/01/2025 9:30	28.4	57	11	E	0
25/01/2025 10:00	29.0	59	11	E	0
25/01/2025 10:30	29.4	61	13	E	0
25/01/2025 11:00	29.3	59	13	ESE	0
25/01/2025 11:30	28.4	63	-	-	0
25/01/2025 12:00	27.9	64	13	ESE	0
25/01/2025 12:30	28.6	62	15	ESE	0
25/01/2025 13:00	28.1	61	13	E	0

Suncorp Stadium Noise Monitoring
Luke Combs, January 2025

30

Date & Time	Temp °C	Humidity %	Wind Speed m/s	Wind Direction	Rain 10 min mm
25/01/2025 13:30	28.3	63	11	E	0
25/01/2025 14:00	28.9	60	11	E	0
25/01/2025 14:30	28.6	58	15	E	0
25/01/2025 15:00	29.5	58	13	E	0
25/01/2025 15:30	29.1	59	13	E	0
25/01/2025 16:00	27.5	64	13	E	0
25/01/2025 16:30	27.9	63	11	E	0
25/01/2025 17:00	27.7	63	11	E	0
25/01/2025 17:30	27.4	64	9	ESE	0
25/01/2025 18:00	26.8	67	9	E	0
25/01/2025 18:30	26.0	70	9	E	0
25/01/2025 19:00	25.4	72	11	ENE	0
25/01/2025 19:30	25.0	73	11	ENE	0
25/01/2025 20:00	25.0	74	6	ENE	0
25/01/2025 20:30	25.1	73	7	ENE	0
25/01/2025 21:00	25.1	73	-	-	0
25/01/2025 21:30	25.1	73	-	-	0
25/01/2025 22:00	25.1	73	-	-	0
25/01/2025 22:30	25.1	73	-	-	0
25/01/2025 23:00	25.0	74	-	ESE	0
25/01/2025 23:30	24.9	75	-	-	0
26/01/2025 0:00	24.9	75	7	ESE	0

ptg consulting

www.ptgconsulting.com.au