



Sydney Cricket Ground Trust

**NOISE MONITORING, BIG BASH LEAGUE
– SYDNEY SIXERS VS BRISBANE HEAT
18 JANUARY 2018**

January 2018

Report Prepared by:

EVENT NOISE MANAGEMENT

Queensland – Unit 3, 4 Tombo Street, Capalaba, QLD 4157

New South Wales – 6/69 Reservoir Street, Surry Hills, NSW 2010

☎ 1300 851 761

✉ enm@ane.com.au

🌐 www.ane.com.au/enm

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Executive Summary

Monitoring of noise levels at sensitive receptors in the area surrounding Sydney Cricket Ground was undertaken during the Sydney Sixers vs Brisbane Heat Big Bash League cricket match held on 18 January 2018 to determine compliance with the following noise criteria defined in the site's Noise Management Plan (NMP):

'When measured at the specified monitoring locations, the L_{Amax} of noise emanating from any sound amplification equipment must not exceed 60 dB (A) during any sporting events.

This noise limit applies to wind speeds up to 5m/s, above which wind generated noise on the microphone limits measurement accuracy. During periods of wind greater than 5m/s this noise limit does not apply.

Noise levels measured when wind speed exceed 5 m/s (at microphone height) should not be used to measure compliance with noise limits, as wind generated noise may influence measurement accuracy. During periods of wind greater than 5 m/s the Trust must continue to take all reasonable and feasible actions to minimise noise.'

Noise levels were measured for the duration of the amplified activities associated with the event from 6:20 pm to 22:00 pm at the three positions required by the Noise Management Plan. During the monitoring, notes were also made regarding the sources of noise in the area and the source of any potential exceedences of the noise criteria.

Throughout the monitoring, noise levels were recorded at each location every two minutes. During each two minute period notes were also made regarding the sources of noise in the area and the source of any potential exceedences of the noise criteria. The noise levels recorded represent the highest RMS noise level recorded during the two minute period.

During the cricket match it was identified that noise levels from the event PA system were within the criteria defined in the site's NMP throughout the noise monitoring. At Positions 1 and 3 the match was audible at times, but no exceedances were recorded. At Position 2, amplified sound was inaudible due to the high volume of road traffic near the monitoring position.

No noise complaints were received by the Trust or by Event Noise Management staff during the event.

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1 INTRODUCTION

1.1 SCOPE OF ASSESSMENT

Sydney Cricket Ground Trust (SCGT) commissioned Event Noise Management to conduct event noise monitoring during the Sydney Sixers vs Brisbane Heat Big Bash League match held on 18 January 2018 as part of the requirements under the Noise Management Plan (NMP) for the facility¹.

This report presents a summary of the results of the monitoring and a comparison with the noise criteria for the event as defined in the NMP.

1.2 EVENT DETAILS

The sporting event was held at Sydney Cricket Ground (SCG) on Thursday 18 January 2018 from 6:30 pm to approximately 10:00 pm.

1.3 EVENT NOISE CRITERIA

Noise limits for sporting events held at the SCG are provided in the site's NMP as follows:

'When measured at the specified monitoring locations, the L_{Amax} of noise emanating from any sound amplification equipment must not exceed 60 dB (A) during any sporting events.'

This noise limit applies to wind speeds up to 5m/s, above which wind generated noise on the microphone limits measurement accuracy. During periods of wind greater than 5m/s this noise limit does not apply.

Noise levels measured when wind speed exceed 5m/s (at microphone height) should not be used to measure compliance with noise limits, as wind generated noise may influence measurement accuracy. During periods of wind greater than 5 m/s the Trust must continue to take all reasonable and feasible actions to minimise noise.'

Section 6.2.1 of the NMP details the monitoring positions that must be considered as follows:

'Monitoring Locations

For both sporting events and concerts attended monitoring locations will be as set out below.

For activities taking place at the SCG:

- *At a point within one (1) metre of the boundary nearest to the SCG, at the corner of Poate Road and Poate Lane, Centennial Park;*
- *At a point within one (1) metre of the boundary nearest to the SCG, at the corner of Leinster and Regent Streets, Paddington; and*

¹ Sydney Cricket Ground and Allianz Stadium, Noise Management Plan (NMP), prepared by ERM for Sydney Cricket and Sports Ground Trust (SCGT), April 2015

- *At a point within one (1) metre of the boundary nearest to the SCG, at the corner of Robertson Road and Martin Road (northern intersection), Moore Park.*

2 MONITORING METHODOLOGY

2.1 MONITORING POSITIONS

Monitoring during the match was undertaken at two fixed monitoring positions as required by the NMP. Table 2.1 presents a summary of the monitoring locations assessed during the event, with the monitoring positions identified on Figure 1.

TABLE 2.1: SUMMARY OF MONITORING POSITIONS

Position	Description
1	Fixed monitoring position located within 1 m of the front boundary at the corner of Poate Road and Poate Lane
2	Fixed monitoring position located within 1 m of the front boundary at the corner of Leinster and Regent Streets
3	Fixed monitoring position located within 1 m of the front boundary at the corner of Robertson Road and Martin Road (northern intersection)

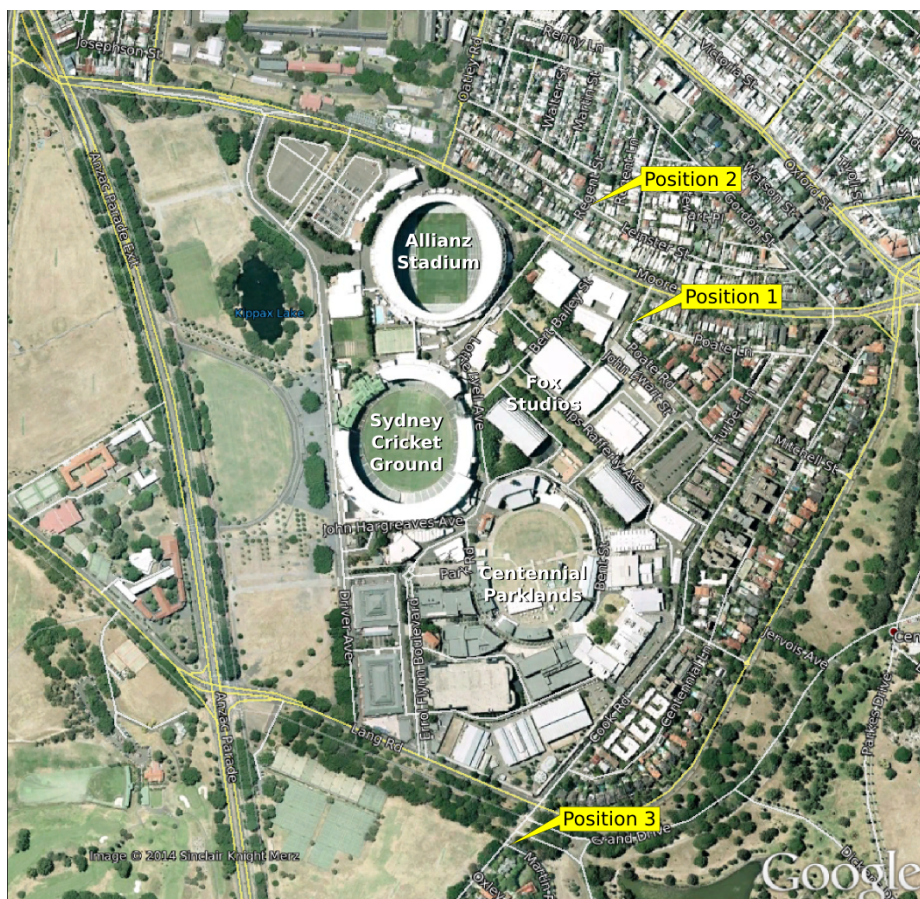


Figure 1: Noise Monitoring Positions (External Fixed Locations)

2.2 OPERATORS

During the monitoring, Event Noise Monitoring personnel were located at each position identified

in Figure 1. The monitoring exercise was undertaken by the following personnel:

- Position 1: Roger Treagus: BA, MA Env. Stud, MAAS.
- Position 2: Oliver Dibley: Bachelor of Creative Technology (Audio Engineering and Sound Production).
- Position 3: Samuel Wong: BEng(Chem), MAAS.

2.3 MONITORING EQUIPMENT

Table 2.2 presents a summary of the equipment used to complete the monitoring. The monitoring instruments utilised conform to *Australian Standard 1259 "Acoustics - Sound Level Meters" (1990)* as Type 1 precision sound level meters and have an accuracy suitable for both field and laboratory use.

The sound level meters and calibrator used for the monitoring have been checked, adjusted and aligned to conform to the Type 1 specifications and issued with a conformance certificate (NATA).

TABLE 2.2: SUMMARY OF MONITORING EQUIPMENT

Position	Instrument Model	Instrument Serial	Instrument Calibration Due Date	Calibrator Model	Calibrator Serial	Calibrator Calibration Due Date
1	B&K 2250L	2741106	23/1/19	Pulsar 105	62686	16/11/18
2	Nor 140	1404261	2/6/19	Pulsar 105	62686	16/11/18
3	Nor 140	1405306	14/7/19	Pulsar 105	62686	16/11/18

Field calibrations of each of the instruments were also undertaken prior to and immediately after the monitoring was completed. Less than 0.5 dB drift occurred over the measurement periods. All instruments were fitted with a windshield and monitoring was completed at a height of 1.5 m above ground level.

2.4 WEATHER CONDITIONS DURING THE EVENT

During the monitoring period, wind conditions were light to moderate in speed and predominantly north-easterly. These conditions directed noise away from the nearest houses and monitoring positions, which were located to the south and north-east of the venue.

3 RESULTS OF MONITORING

3.1 METHODOLOGY

Noise monitoring was completed continuously at each location with the maximum noise level recorded for every two minute period. During the monitoring, notes were also made regarding the sources of noise in the area and the source of any potential exceedances of the noise criteria. The noise levels represent the highest RMS noise level recorded during the two minute period. Hence, even where exceedances are identified, it is possible such exceedances are due to noise sources unrelated to amplified event noise (e.g. road traffic).

3.2 MONITORING RESULTS

The measured noise levels and associated notes that were recorded during the monitoring are presented in Appendix B. During the cricket match it was identified that noise levels from the event were within the criteria defined in the site's NMP throughout the noise monitoring.

At Position 1 and 3, amplified sound from the event PA was audible at times, but noise levels were less than 52 dB(A) at Position 1 and less than 50 dB(A) at Position 3 (within the 60 dB(A) criteria). At Position 2, amplified sound was inaudible due to the high volume of road traffic near the monitoring position.

It is noted that all recorded L_{Amax} noise levels were greater than the noise criteria set in the NMP. However, these noise levels do not represent non-compliance with the NMP as the L_{Amax} levels recorded were attributable to extraneous noise sources and not the PA system. These sources included passing vehicles, aircraft overhead and pedestrians.

3.3 EVENT HOTLINE

During the event no noise complaint related calls were received on the event hotline established by the Sydney Cricket Ground Trust. No complaints were received by Event Noise Management staff for investigation.

4 CONCLUSIONS

Noise monitoring of amplified sound from the Sydney Cricket Ground during the Big Bash League cricket match held on 18 January 2018 was completed at three positions as required by the site's Noise Management Plan. Noise levels were measured for the duration of the amplified activities associated with the event from 6:20 pm to 10:00 pm.

During the cricket match it was identified that noise levels from the event were within the criteria defined in the site's NMP throughout the noise monitoring. At Positions 1 and 3 the match was audible at times, but no exceedances were recorded. At Position 2, amplified sound was inaudible due to the high volume of road traffic near the monitoring position.

No noise complaints were received by the Trust or by Event Noise Management staff during the event.

APPENDIX A

ACOUSTIC GLOSSARY

APPENDIX A: GLOSSARY OF ACOUSTIC TERMINOLOGY

A-Weighting	A response provided by an electronic circuit which modifies sound in such a way that the resulting level is similar to that perceived by the human ear.
dB (decibel)	This is the scale on which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and the reference pressure (0.00002N/m ²).
dB(A)	This is a measure of the overall noise level of sound across the audible spectrum with a frequency weighting (i.e. 'A' weighting) to compensate for the varying sensitivity of the human ear to sound at different frequencies.
dB(C)	This is a standard weighting of the audible frequencies, commonly used for the measurement of Peak Sound Pressure level.
Facade Noise Level	Refers to a sound pressure level determined at a point close to an acoustically reflective surface (in addition to the ground). Typically a distance of 1 metre is used.
Free Field	Refers to a sound pressure level determined at a point away from reflective surfaces other than the ground with no significant contribution due to sound from other reflective surfaces; generally as measured outside and away from buildings.
Hertz (Hz)	A measure of the frequency of sound. It measures the number of pressure peaks per second passing a point when a pure tone is present.
L_{Aeq} Equivalent Continuous Sound Level	This is the equivalent steady sound level in dB(A) containing the same acoustic energy as the actual fluctuating sound level over the given period. For a steady sound with small fluctuations, its value is close to the average sound pressure level.
L_{A90,T}	This is the dB(A) level exceeded 90% of the time, T.
L_{A10,T}	This is the dB(A) level exceeded 10% of the time, T.
L_{Amax}	is the maximum A-weighted sound pressure level recorded over the period stated.
L_{Cmax}	is the maximum C-weighted sound pressure level recorded over the period stated.

APPENDIX B

DETAILED MONITORING DATA (FIXED POSITIONS)

EVENT NOISE MANAGEMENT

Project Number:	5258	Date:	18/1/18
Project Description:	Noise Monitoring – Big Bash League		
Monitoring Location:	Position 1		
Operator:	Roger Treagus		
Weather Description:	Light North-easterly winds		
Instrument:	B&K 2250L	Calibrator Model:	Pulsar 105
Instrument Serial:	2741106	Calibrator Serial:	62686
Instrument NATA Calibration Date:	23/01/17	Calibrator NATA Calibration Date:	16/11/17
Pre-calibration:	94.0	Post calibration:	94.0

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
18:36	74.1	Traffic
18:38	69.4	Traffic
18:40	71.3	Traffic
18:42	78.5	Traffic
18:44	82.3	Traffic
18:46	73.6	Traffic
18:48	71.7	Traffic
18:50	76.0	Traffic, birds
18:52	67.1	Traffic
18:54	68.8	Traffic
18:56	71.0	Traffic
18:58	75.3	Traffic
19:00	75.8	Traffic
19:02	71.8	Traffic
19:04	74.9	Traffic

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
19:06	76.8	Traffic
19:08	69.0	Event PA faintly audible, traffic
19:10	73.6	Event PA faintly audible, traffic
19:12	67.8	Traffic, aircraft
19:14	71.9	Traffic
19:16	75.8	Event PA faintly audible, less than 50dB(A)max, traffic
19:18	70.5	Event PA audible, less than 50dB(A)max, traffic
19:20	74.3	Event PA audible, traffic
19:22	68.0	Traffic, aircraft
19:24	68.8	Traffic, aircraft
19:26	67.9	Traffic
19:28	68.9	Event PA faintly audible less than 50dB(A)max, traffic
19:30	62.0	Event PA faintly audible, traffic
19:32	74.6	Event PA faintly audible, traffic, aircraft
19:34	67.4	Traffic, aircraft
19:36	70.0	Traffic, aircraft
19:38	72.7	Event PA faintly audible, traffic
19:40	61.3	Traffic
19:42	69.5	Traffic
19:44	66.0	Traffic
19:46	70.6	PA music, less than 52dB(A) max, traffic
19:48	64.2	Traffic
19:50	69.0	Traffic, aircraft
19:52	73.9	Event crowd noise, less than 52dB(A)max, traffic

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
19:54	68.7	Event music, less than 52dB(A) max, traffic
19:56	73.0	Event music, less than 52dB(A) max, traffic
19:58	68.9	No event music, traffic
20:00	75.0	Traffic
20:02	72.0	Traffic
20:04	69.4	Traffic
20:06	72.2	Traffic, aircraft
20:08	65.3	Traffic, aircraft
20:10	61.5	Traffic, aircraft
20:12	65.5	Traffic, aircraft
20:14	73.5	Event faintly audible, less than 50dB(A) max, ambient traffic
20:16	70.6	Event faintly audible, less than 50dB(A) max, ambient traffic
20:18	74.3	Event faintly audible, less than 50dB(A) max, ambient traffic
20:20	73.7	Event faintly audible, less than 50dB(A) max, ambient traffic
20:22	66.5	PA faintly audible, less than 52dB(A) max, 66.5dB(A) max caused by traffic
20:24	73.0	PA faintly audible, less than 52dB(A) max, traffic
20:26	67.2	PA faintly audible, less than 52dB(A) max, traffic
20:28	77.8	Event faintly audible, traffic
20:30	67.8	PA music faintly audible, less than 52dB(A) max, traffic, crickets
20:32	67.4	PA music, less than 52dB(A) max, 67.4dB(A) max caused by traffic and crickets
20:34	67.6	Traffic, crickets
20:36	69.0	Traffic, crickets
20:38	67.5	Traffic, crickets

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
20:40	70.5	Event faintly audible, traffic, crickets
20:42	74.2	Crowd noise, 74dB(A) max caused by traffic, crickets
20:44	69.9	Traffic, crickets
20:46	64.1	Traffic, crickets
20:48	64.9	Event crowd noise, traffic, crickets
20:50	75.4	PA, less than 51dB(A) max, traffic, crickets
20:52	80.0	PA, less than 51dB(A) max, traffic, crickets
20:54	72.1	PA, less than 51dB(A)max, 72.1 dB(A) max caused by traffic,crickets
20:56	67.7	PA, less than 52dB(A) max, traffic
20:58	67.6	PA, less than 52dB(A) max, traffic
21:00	59.1	PA, less than 52dB(A) max, traffic
21:02	65.2	PA, less than 52dB(A) max, traffic
21:04	64.6	PA, less than 52dB(A) max, 64.6dB(A) max caused by traffic
21:06	73.9	No event noise, 73.9dB(A) max caused by traffic
21:08	64.1	PA, less than 52dB(A) max, traffic
21:10	73.6	Traffic
21:12	70.7	Traffic
21:14	62.5	Traffic
21:16	64.3	64.3dB(A) max caused by traffic
21:18	67.1	Crowd noise, traffic
21:20	77.5	PA, less than 50dB(A) max, traffic
21:22	66.2	Traffic
21:24	66.9	PA, less than 50dB(A) max, traffic
21:26	66.1	Crowd noise, 66.1dB(A) max caused by traffic

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
21:28	59.6	PA, less than 50dB(A) max, traffic
21:30	62.9	PA music, less than 50dB(A) max, traffic
21:32	60.8	PA, less than 50dB(A) max, traffic
21:34	62.4	PA, less than 50dB(A) max, traffic
21:36	83.4	Event crowd noise, 83.4dB(A) max
21:38	64.9	Traffic
21:40	61.4	Crowd Noise, traffic
21:42	68.9	PA, less than 50dB(A)max, traffic
21:44	69.0	PA, less than 50dB(A)max, traffic
21:46	70.6	PA, less than 50dB(A)max, traffic
21:48	67.5	Traffic
21:50	72.6	Traffic
21:52	74.7	Ambient traffic 74.7dB(A)max
21:54	68.1	Traffic
21:56	63.8	Traffic 63.8dB(A)max
21:58	65.2	Traffic
22:00	68.3	Traffic
22:02	69.4	Traffic
22:04	72.8	Traffic

Project Number:	5258	Date:	18/1/18
Project Description:	Noise Monitoring – Big Bash League		
Monitoring Location:	Position 1		
Operator:	Oliver Dibley		
Weather Description:	North-easterly		
Instrument:	NOR 140	Calibrator Model:	Pulsar 105
Instrument Serial:	1404261	Calibrator Serial:	62686
Instrument NATA Calibration Date:	02/06/17	Calibrator NATA Calibration Date:	16/11/17
Pre-calibration:	94.2	Post calibration:	94.0

Time	L_{Amax} dB(A)	<u>Description of Noise and/or Changes to Weather</u>
18:18	88.0	Police Siren
18:20	76.2	Traffic
18:22	85.5	People talking on street
18:24	89.1	People talking on street
18:26	85.1	People talking on street
18:28	75.3	Traffic
18:30	81.5	Traffic
18:32	87.6	Traffic
18:34	75.2	Traffic
18:36	71.9	Horn honking
18:38	78.5	Children yelling
18:40	72.1	Traffic
18:42	69.7	Traffic
18:44	67.2	Traffic
18:46	91.0	Motorbike
18:48	73.4	Traffic

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
18:50	82.5	Motorbike
18:52	70.9	Traffic
18:54	71.2	Traffic
18:56	75.6	Traffic
18:58	76.0	Traffic
19:00	75.7	Traffic
19:02	70.9	Traffic
19:04	77.5	Traffic
19:06	69.2	Traffic
19:08	77.8	Traffic
19:10	75.1	Traffic
19:12	76.0	Traffic
19:14	74.4	Traffic
19:16	73.7	Traffic
19:18	77.2	Traffic
19:20	90.9	Yelling on street
19:22	72.2	Traffic
19:24	69.1	Traffic
19:26	76.2	Motorbike
19:28	71.3	Traffic
19:30	75.8	Traffic
19:32	75.5	Traffic
19:34	82.3	Child making noise with paper
19:36	90.1	Motorbike

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
19:38	69.4	Traffic
19:40	70.4	Traffic
19:42	67.4	Traffic
19:44	71.9	Traffic
19:46	71.2	Traffic
19:48	81.5	Motorbike
19:50	74.5	Traffic
19:52	78.4	Traffic
19:54	74.5	Traffic
19:56	67.8	Traffic
19:58	63.4	Traffic
20:00	67.4	Traffic
20:02	82.4	Coughing
20:04	89.2	Pedestrian laughing
20:06	81.1	Traffic
20:08	78.9	Traffic
20:10	82.7	Traffic
20:12	78.1	Traffic
20:14	81.2	People talking on the street
20:16	82.1	Traffic
20:18	85.2	Traffic
20:20	90.0	Pedestrian Yelling
20:22	70.9	Traffic
20:24	81.3	Traffic

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
20:26	84.4	Traffic
20:28	71.1	Traffic
20:30	76.3	Traffic
20:32	71.6	Traffic
20:34	76.0	Traffic
20:36	70.9	Traffic
20:38	68.1	Traffic
20:40	74.8	Traffic
20:42	80.0	Motorbike
20:44	76.9	Traffic
20:46	74.3	Traffic
20:48	65.7	Traffic
20:50	86.1	Traffic
20:52	66.0	Traffic
20:54	70.8	Pedestrian Yelling
20:56	67.5	Traffic
20:58	73.8	Traffic
21:00	76.2	Traffic
21:02	67.4	Traffic
21:04	69.5	Traffic
21:06	66.6	Traffic
21:08	65.0	Traffic
21:10	68.1	Traffic
21:12	64.8	Traffic

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
21:14	68.2	Traffic
21:16	72.6	Traffic
21:18	70.3	Traffic
21:20	69.2	Traffic
21:22	71.5	Traffic
21:24	71.4	Traffic
21:26	69.3	Traffic
21:28	82.6	Car Alarm
21:30	83.3	Car Alarm
21:32	83.7	Car Alarm
21:34	83.3	Car Alarm
21:36	76.3	Traffic
21:38	78.1	Traffic
21:40	86.5	Pedestrian talking
21:42	85.9	Pedestrian talking
21:44	83.7	Pedestrian talking
21:46	84.0	Pedestrian talking
21:48	80.8	Pedestrian talking
21:50	91.1	Pedestrian yelling
21:52	84.4	Pedestrian talking
21:54	85.5	Pedestrian talking
21:56	83.2	Pedestrian talking
21:58	68.1	Traffic

Project Number:	5258	Date:	18/1/18
Project Description:	Noise Monitoring – Big Bash League		
Monitoring Location:	Position 3 - Robertson and Martin Road		
Operator:	Samuel Wong		
Weather Description:	North-easterly		
Instrument:	Nor140	Calibrator Model:	Pulsar 105
Instrument Serial:	1405306	Calibrator Serial:	62686
Instrument NATA Calibration Date:	14/7/17	Calibrator NATA Calibration Date:	16/11/17
Pre-calibration:	94.2	Post calibration:	94.0

Time	L_{Amax} dB(A)	<u>Description of Noise and/or Changes to Weather</u>
18:42	82.5	Traffic
18:44	75.4	Traffic
18:46	71.3	Traffic
18:48	59.5	Traffic
18:50	68.9	Traffic
18:52	73.8	Traffic
18:54	70.3	Traffic
18:56	71.1	Traffic
18:58	74.2	Traffic
19:00	71.1	Traffic
19:02	70.7	Traffic
19:04	76.2	Car horn caused max, traffic dominant
19:06	69.4	Traffic
19:08	67.7	Traffic
19:10	71	Traffic
19:12	68	Traffic

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
19:14	74.9	Plane overhead
19:16	73.7	Traffic
19:18	69.3	Traffic
19:20	73.3	Traffic
19:22	70.1	Motorbike
19:24	65.5	Traffic
19:26	64.9	Traffic, music from fitness class in park
19:28	67.6	Traffic, music from fitness class in park
19:30	71.8	Traffic, music from fitness class in park
19:32	74.9	Traffic, music from fitness class in park
19:34	63.3	Traffic, music from fitness class in park
19:36	67.7	Traffic, music from fitness class in park
19:38	75.5	Traffic, music from fitness class in park
19:40	78	Motorbikes, traffic
19:42	75.6	Motorbikes, traffic
19:44	78.8	Traffic, music from fitness class in park
19:46	76.6	PA just audible for short period, traffic dominant and causing max
19:48	71.7	Traffic
19:50	83.8	Traffic
19:52	71.3	Plane overhead, music just audible for a few seconds, traffic dominant
19:54	68.6	Traffic
19:56	74.4	Traffic
19:58	66.1	PA audible during low traffic period, less than 52 dBA, traffic caused max

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
20:00	68.4	Traffic
20:02	75.9	Traffic
20:04	70.5	Traffic
20:06	73.5	Plane overhead
20:08	70	Traffic
20:10	66.7	PA audible for a few seconds, less than 50 dB(A), traffic caused max
20:12	64.3	PA audible for a few seconds, less than 50 dB(A), traffic caused max
20:14	74.5	Plane overhead
20:16	70.6	Traffic
20:18	76.3	Traffic
20:20	74.2	Traffic
20:22	66.6	PA audible for a few seconds, less than 50 dB(A), traffic caused max
20:24	62.9	Traffic
20:26	62	Traffic
20:28	66	Traffic
20:30	68.8	Traffic
20:32	67	Traffic
20:34	81.9	People talking nearby
20:36	76.2	Traffic
20:38	63.2	Traffic
20:40	66.5	Traffic
20:42	63.4	Traffic
20:44	71.4	Traffic
20:46	64.9	Traffic

Time	L _{Amax} dB(A)	Description of Noise and/or Changes to Weather
20:48	65.6	PA audible during low traffic period, less than 48 dBA, traffic caused max
20:50	71.3	Plane overhead
20:52	62.9	Traffic
20:54	61.9	Traffic
20:56	68.8	Traffic
20:58	70.2	Traffic
21:00	69.5	PA just audible during low traffic period, less than 46 dBA, traffic caused max
21:02	76.7	PA just audible during low traffic period, less than 46 dBA, traffic caused max
21:04	62.5	Traffic
21:06	70.5	Traffic
21:08	-	-
21:10	-	-
21:12	-	-
21:14	-	-
21:16	-	-
21:18	-	-
21:20	-	-
21:22	-	-
21:24	64.2	Traffic
21:26	82.4	Max from person walking on a branch
21:28	67.2	Traffic
21:30	65.6	Traffic
21:32	73.5	Traffic

Time	L _{Amax} dB(A)	<u>Description of Noise and/or Changes to Weather</u>
21:34	73.2	Traffic
21:36	62.1	Traffic
21:38	75.5	Traffic
21:40	75.3	Squeaky bicycle brakes
21:42	69.7	Traffic
21:44	67.6	Traffic
21:46	63.5	Music from car passing by
21:48	73.8	Traffic
21:50	70.7	Traffic
21:52	66.2	Traffic
21:54	65.4	Traffic
21:56	66.1	Traffic
21:58	70	Traffic