



Sydney Cricket Ground Trust

**NOISE MONITORING, A LEAGUE:
SYDNEY FC V WANDERERS**

14 JANUARY 2017

January 2017

Report Prepared by:

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Project Reference: 4838

Document Title: Noise Monitoring, A League: Sydney FC v Wanderers

Client: Sydney Cricket Ground Trust

Document Reference: /Network/Projects/4838/Reporting/4838_Report_ALeague_02.odt

| Version: | Description: | Date: | Author: | Approved by: |
|----------|---------------------------|------------|---------|--------------|
| 00 | Draft for internal review | 18/01/2017 | GH | - |
| 01 | Final for Client | 18/01/2017 | GH | SW |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |

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Executive Summary

Monitoring of noise levels at sensitive receptors in the area surrounding Allianz Stadium was undertaken during the A League Sydney FC v Wanderers Football match held on 14 January 2017 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 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.'

Noise levels were measured for the duration of the amplified activities associated with the event between 19:00 pm to 22:06pm at the two 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 measured continuously and the maximum 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 A-League Football match at Allianz Stadium, it was identified that amplified PA noise levels from the event were less than the criteria defined in the site's NMP.

At Position 1, sound emanating from the PA was audible at times, however generally noise from the PA was masked by crowd chanting and vehicle traffic on Moore Park Road. At Position 2 the sound emanating from the PA was audible at times, however noise levels were well below the criteria and noise from the match was usually masked by traffic and other ambient noise.

No complaints were forwarded to Event Noise Management staff for investigation.

During the event, L_{Amax} noise levels were higher than the 60 dB(A) criteria for the majority of the time due to traffic noise and patrons inside and external to the venue. These sources of noise are not directly attributable to the sound amplification system and therefore do not represent an exceedance of the criteria.

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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 A League Sydney FC v Wanderers Football match held on 14 January 2017 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 Allianz Stadium on Saturday 14 January 2017. The gates opened at 18:00 pm and the game concluded at approximately 22:00 pm, with amplified music, announcements and advertising continuing at a low level until approximately 22:04 pm.

1.3 EVENT NOISE CRITERIA

Noise limits for sporting events held at Allianz Stadium 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 Allianz Stadium:

- *At a point within one (1) metre of the boundary nearest to Allianz Stadium at 234 Moore Park Road, Paddington*
- *At a point within one (1) metre of the boundary nearest to Allianz Stadium of 10 Alexander Street, Paddington.*

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

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 of 234 Moore Park Road |
| 2 | Fixed monitoring position located within 1 m of the front boundary of 10 Alexander Street |



Figure 1: Noise Monitoring Positions (External Fixed Locations)

2.2 OPERATORS

During the monitoring undertaken on 14 January 2017, Event Noise Monitoring personnel were located at each position identified in Figure 1. The monitoring study was undertaken by the following personnel:

- Position 1: Gary Hall: Bsc (Hons) Env Sci.
- Position 2: Roger Treagus: BA, MA Env. Stud, 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 within the last 24 months 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 | 2741104 | 23/10/17 | Pulsar 105 | 62686 | 17/11/17 |
| 2 | Norsonic | 1404663 | 6/7/17 | Pulsar 105 | 62686 | 17/11/17 |

Field calibrations of each of the instruments were also undertaken prior to and immediately after the monitoring was completed. Less than 0.4 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 generally light south easterly winds. The temperature was generally warm to hot. No rain occurred during the monitoring.

2.5 METEOROLOGICAL INFLUENCES ON MONITORING

The light south easterly winds carried noise towards the northern residents (though to a lesser extent than direct source-to-receiver southerly to south-westerlies would have).

3 RESULTS OF MONITORING

3.1 METHODOLOGY

Noise monitoring was completed at each location throughout the monitoring period with the maximum noise levels 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

Noise monitoring during the A League Sydney FC v Wanderers Football match held on 14 January 2017 at Allianz Stadium was conducted between 19:00 pm and 22:06 pm at monitoring positions 1 and 2. The measured noise levels and associated notes that were recorded during this period are presented in Appendix B.

The event had a sell out crowd and a large crowd also attended the Sydney Cricket ground for the big bash match (total crowd size up to 80,000 people). Monitoring for the duration of the event was characterised by significant crowd singing and chanting during the game. Traffic levels were also very high throughout the match. The cricket game finished at around 21:00 and large crowds left the Sydney Cricket Grounds stadium and were gathering around the monitoring positions whilst making their way home. These large crowds and associated heavy traffic dominated the sound measurements recorded after 9 pm.

The amplified PA system was mostly inaudible for the event. Occasional short periods of sound were audible from the PA system during the event but these levels were below the crowd noise levels. The actual PA levels were difficult to distinguish from the crowd noise levels and were noted to be below the crowd and traffic levels for the duration of the event.

All recorded L_{Amax} noise levels were greater than the noise criteria set in the NMP for noise emanating from sound amplification equipment. However, these noise levels do not represent non-compliance with the NMP as the L_{Amax} levels recorded were attributable to extraneous ambient noise sources and not the Allianz Stadium PA system. These sources included chanting and singing of the crowd, passing vehicles, aircraft overhead, pedestrians, and event patrons outside the venue.

3.3 CONCERT HOTLINE

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

4 CONCLUSIONS

Monitoring of amplified noise from Allianz Stadium during the A League Sydney FC v Wanderers Football match held on 14 January 2017 was completed at two positions as required by the site's Noise Management Plan (NMP).

Noise levels were measured for the duration of the amplified activities associated with the event from 19:00 pm to 22:06 pm. Throughout the monitoring, noise levels were measured continuously, with the maximum levels for every two minute period recorded. 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 during the two minute period.

During the soccer match it was identified that PA noise levels were audible at times however, when audible, PA noise levels were below the criteria defined in the site's NMP for the duration of the event. No complaints were forwarded to Event Noise Management staff for investigation.

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: | 4838 | Date: | 14/1/17 |
| Project Description: | A-League | | |
| Monitoring Location: | 234 Moore Park Road | | |
| Operator: | GH | | |
| Weather Description: | Warm/Partly Cloudy/Light winds | | |
| Instrument: | B&K | Calibrator Model: | 105 |
| Instrument Serial: | 2741104 | Calibrator Serial: | 62686 |
| Instrument NATA Calibration Date: | 23/10/17 | Calibrator NATA Calibration Date: | 17/11/17 |
| Pre-calibration: | 93.8 | Post calibration: | 93.5 |

| Time | L_{Amax} dB(A) | <u>Description of Noise and/or Changes to Weather</u> |
|-------------|-------------------------------|--|
| 19:10:00 | 80.6 | Traffic dominant |
| 19:12:00 | - | Talking to Pedestrians |
| 19:14:00 | 92.2 | Red and black supporters march |
| 19:16:00 | 94.7 | Red and black supporters march |
| 19:18:00 | 81.6 | Traffic, PA – around 59-61dB |
| 19:20:00 | - | Talking to Pedestrians |
| 19:22:00 | - | Talking to Pedestrians |
| 19:24:00 | - | Talking to Pedestrians |
| 19:26:00 | 79.6 | Traffic, no PA audible over traffic |
| 19:28:00 | 89.7 | Pedestrians – local traffic, buses, no PA audible over traffic |
| 19:30:00 | - | Talking to Pedestrians |
| 19:32:00 | - | Talking to Pedestrians |
| 19:34:00 | - | Traffic |
| 19:36:00 | - | Traffic, pedestrians dominant |

| Time | L _{Amax} dB(A) | <u>Description of Noise and/or Changes to Weather</u> |
|----------|-------------------------|---|
| 19:38:00 | 79.6 | Crowd chanting 68-70, traffic 79.6dB |
| 19:40:00 | 90.8 | Traffic, crowd noise |
| 19:42:00 | 96.7 | Traffic, some PA audible – continual discernible traffic |
| 19:44:00 | 75.4 | Crowd singing, traffic |
| 19:46:00 | 76.4 | Traffic, crowd noise |
| 19:48:00 | 90.0 | Traffic, crowd singing, shouting 84.4 |
| 19:50:00 | 80.2 | Crowd singing/ Traffic |
| 19:52:00 | - | traffic |
| 19:54:00 | - | Talking to Pedestrians |
| 19:56:00 | 76.2 | Traffic, crowd noise |
| 19:58:00 | 75.2 | Crowd singing and traffic, PA not distinguishable above traffic |
| 20:00:00 | 77.4 | Crowd singing, traffic |
| 20:02:00 | 77.0 | Crowd singing |
| 20:04:00 | 80.9 | Crowd singing |
| 20:06:00 | 78.4 | Crowd singing |
| 20:08:00 | 82.0 | Crowd singing |
| 20:10:00 | 84.5 | Crowd singing |
| 20:12:00 | 77.1 | Crowd singing |
| 20:14:00 | 81.7 | Crowd singing, traffic |
| 20:16:00 | 79.3 | Crowd singing |
| 20:18:00 | 87.7 | Crowd singing, light rain |
| 20:20:00 | 85.1 | Crowd singing, traffic |
| 20:22:00 | 84.7 | Crowd singing, drums, traffic |
| 20:24:00 | 77.5 | Crowd singing, traffic |

| Time | L _{Amax} dB(A) | <u>Description of Noise and/or Changes to Weather</u> |
|----------|-------------------------|---|
| 20:26:00 | 76.3 | Crowd singing, traffic |
| 20:28:00 | 86.2 | Crowd Chanting, traffic |
| 20:30:00 | 75.3 | Crowd singing, traffic |
| 20:32:00 | 75.3 | Crowd singing, traffic |
| 20:34:00 | 81.7 | Crowd singing, traffic |
| 20:36:00 | 90.0 | Crowd singing, traffic |
| 20:38:00 | 78.9 | Crowd singing, traffic |
| 20:40:00 | 76.0 | Crowd singing, traffic |
| 20:42:00 | 81.9 | Crowd singing, traffic |
| 20:44:00 | 76.4 | Crowd singing, traffic |
| 20:46:00 | 86.4 | Crowd singing, traffic |
| 20:48:00 | 83.6 | Crowd singing, traffic |
| 20:50:00 | 91.2 | Crowd singing, traffic |
| 20:52:00 | 78.3 | Crowd from cricket leaving, soccer crowd singing, traffic |
| 20:54:00 | 76.0 | Crowd from cricket leaving, soccer crowd singing, traffic |
| 20:56:00 | 74.1 | Crowd singing, traffic |
| 20:58:00 | 116.7* | Crowd shouting into SLM |
| 21:00:00 | 126.7* | Crowd shouting into Mic |
| 21:02:00 | 86.0 | Traffic and crowd – some PA audible but not above the traffic |
| 21:04:00 | 76.6 | Crowd and traffic |
| 21:06:00 | 99.5 | Crowd and traffic – cant distinguish PA above traffic |
| 21:08:00 | 87.0 | Crowd chanting and traffic |
| 21:10:00 | 94.0* | People shouting into the mic |
| 21:12:00 | 80.1 | Crowd chanting and traffic |

| Time | L _{Amax} dB(A) | <u>Description of Noise and/or Changes to Weather</u> |
|----------|-------------------------|---|
| 21:14:00 | 79.1 | Crowd and traffic |
| 21:16:00 | 87.1 | Crowd and traffic |
| 21:18:00 | 78.8 | Crowd and traffic |
| 21:20:00 | 74.4 | Crowd and traffic |
| 21:22:00 | 80.6 | Crowd chanting, traffic, No PA |
| 21:24:00 | 83.9 | Crowd, No PA |
| 21:26:00 | 79.7 | Crowd, No PA |
| 21:28:00 | 79.8 | Crowd, No PA |
| 21:30:00 | 86.3 | Crowd, No PA |
| 21:32:00 | 74.6 | Crowd, No PA |
| 21:34:00 | 88.2 | Crowd, No PA |
| 21:36:00 | 85.3 | Crowd, No PA |
| 21:38:00 | 75.9 | Crowd, No PA |
| 21:40:00 | 79.6 | Crowd, No PA |
| 21:42:00 | 117.2* | Person shouting into microphone |
| 21:44:00 | 77.3 | Crowd, traffic |
| 21:46:00 | 77.4 | Traffic and crowd chanting |
| 21:48:00 | 75.2 | Traffic and crowd |
| 21:50:00 | 73.2 | Crowd and traffic dominant |
| 21:52:00 | 86.8 | Crowd and traffic dominant |
| 21:54:00 | 78.1 | Crowd |
| 21:56:00 | 86.5 | Crowd |
| 21:58:00 | 87.8 | Crowd |
| 22:00:00 | 86.4 | Crowd |



| Time | L_{Amax} dB(A) | <u>Description of Noise and/or Changes to Weather</u> |
|-------------|-------------------------------|--|
| 22:02:00 | 87.2 | Crowd |
| 22:04:00 | 87.8 | Crowd |
| 22:06:00 | 79.4 | Crowd |



EVENT NOISE MANAGEMENT

| | | | |
|--|----------------------------------|--|-----------|
| Project Number: | 4838 | Date: | 14/1/17 |
| Project Description: | A-League | | |
| Monitoring Location: | 10 Alexander Street Paddington | | |
| Operator: | RT | | |
| Weather Description: | Warm/ Partly Cloudy, Light Winds | | |
| Instrument: | Nor10 | Calibrator Model: | Pulsar105 |
| Instrument Serial: | 1404663 | Calibrator Serial: | 62686 |
| Instrument NATA Calibration Date: | 6/7/17 | Calibrator NATA Calibration Date: | 17/11/17 |
| Pre-calibration: | 93.6 | Post calibration: | 93.6 |

| Time | L_{Amax} dB(A) | Description of Noise and/or Changes to Weather |
|-------------|-------------------------------|--|
| 18:52 | 73.1 | Noise levels defined by traffic and music from nearby residents |
| 18:55 | 74.7 | |
| 18:59 | 80.6 | PA audible from venue. Traffic noise and and music from nearby residents dominant |
| 19:01 | 67.3 | PA audible with levels at 50 dB(A). L _{Amax} defined by traffic noise and and music from nearby residents. |
| 19:03 | 67.9 | |
| 19:06 | 78.2 | |
| 19:08 | 61.3 | |
| 19:10 | 68.8 | PA audible, up to 56 dB(A) at times. L _{Amax} defined by traffic noise and and music from nearby residents. |
| 19:13 | 69.5 | PA audible, up to 50 dB(A) at times. L _{Amax} defined by traffic noise and and music from nearby residents. |
| 19:17 | 71.5 | |
| 19:20 | 74.1 | |
| 19:22 | 73.4 | |
| 19:24 | 71.4 | |
| 19:27 | 73.2 | PA audible, L _{Amax} of 53 dB(A). Traffic noise defining L _{Amax} |
| 19:30 | 90.7 | PA audible up to 50dB(A). Traffic defining L _{Amax} . |
| 19:33 | 61.4 | PA audible up to 50dB(A). Traffic defining L _{Amax} . |
| 19:35 | 71.5 | |
| 19:37 | 70.7 | |
| 19:39 | 67.1 | PA audible up to 52dB(A). Traffic defining L _{Amax} . |
| 19:43 | 68.4 | |

| Time | L _{Amax} dB(A) | Description of Noise and/or Changes to Weather |
|-------|-------------------------|--|
| 19:48 | 72.0 | |
| 19:50 | 67.4 | PA audible <50 dB(A). Crowd noise dominant. Traffic noise defining L _{Amax} . |
| 19:52 | 68.1 | |
| 19:54 | 68.1 | |
| 19:56 | 70.7 | |
| 19:59 | 67.5 | |
| 20:01 | 64.5 | |
| 20:03 | 70.2 | |
| 20:06 | 70.1 | |
| 20:08 | 67.9 | |
| 20:10 | 68.2 | |
| 20:12 | 61.8 | No audible amplified noise from venue. Crowd noise and traffic defining levels |
| 20:14 | 65.0 | |
| 20:16 | 67.2 | |
| 20:18 | 72.8 | |
| 20:20 | 62.0 | PA audible <50 dB(A). Crowd noise up to 64 dB(A). Traffic noise defining L _{Amax} . |
| 20:22 | 68.1 | No audible amplified noise from venue. Crowd noise and traffic defining levels |
| 20:25 | 63.9 | |
| 20:27 | 68.8 | |
| 20:29 | 62.4 | |
| 20:31 | 74.8 | |
| 20:33 | 77.2 | |
| 20:36 | 66.4 | |
| 20:38 | 65.3 | |
| 20:40 | 60.0 | |
| 20:42 | 68.9 | |
| 20:44 | 65.7 | |
| 20:46 | 62.1 | |
| 20:49 | 63.6 | |
| 20:51 | 68.1 | |
| 20:53 | 64.9 | |
| 20:55 | 74.4 | |
| 20:57 | 68.0 | |
| 20:59 | 66.2 | |

| Time | L _{Amax} dB(A) | Description of Noise and/or Changes to Weather |
|-------|-------------------------|--|
| 21:01 | 63.7 | No audible amplified noise from venue. Crowd noise and traffic defining levels |
| 21:03 | 69.5 | |
| 21:06 | 69.3 | |
| 21:08 | 69.0 | |
| 21:10 | 62.7 | |
| 21:12 | 77.3 | |
| 21:15 | 70.9 | |
| 21:17 | 62.8 | |
| 21:19 | 60.1 | |
| 21:21 | 72.4 | |
| 21:25 | 65.2 | |
| 21:27 | 63.8 | |
| 21:30 | 67.9 | |
| 21:32 | 62.0 | |
| 21:34 | 63.7 | |
| 21:36 | 62.1 | |
| 21:39 | 57.6 | |
| 21:42 | 66.5 | |
| 21:45 | 62.1 | |
| 21:47 | 62.2 | |
| 21:49 | 59.5 | |
| 21:52 | 72.7 | |
| 21:54 | 60.0 | |
| 21:56 | 64.1 | |
| 21:58 | 64.0 | PA audible <50 dB(A). Traffic and crowd noise defining L _{Amax} . |
| 22:01 | 65.7 | |
| 22:03 | 79.1 | No audible amplified noise from venue |
| 22:05 | 70.6 | |