



REPORT REFERENCE:

SA - 5175

## INTERNAL NOISE ASSESSMENT

CLIENT:

Taylor Wimpey Southern Counties

Colvedene Court

Wessex Business Park

Colden Common

Hampshire

SO21 1WP

SITE:

Land at Ferring

Littlehampton Road

Ferring

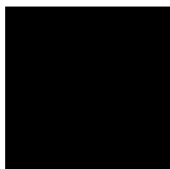
West Sussex

SURVEY DATES:

30<sup>th</sup> September – 3<sup>rd</sup> October 2017

Report Presented By

Mr. B. J. Scrivener MIOA-



Sound Advice Acoustics Ltd  
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|          |                                                                          |           |
|----------|--------------------------------------------------------------------------|-----------|
| <b>1</b> | <b>INTRODUCTION.....</b>                                                 | <b>3</b>  |
| <b>2</b> | <b>APPARATUS .....</b>                                                   | <b>4</b>  |
| 2.1      | NORSONIC NOISE METER S/N 31632 ENVIRONMENTAL TESTING .....               | 4         |
| 2.2      | NORSONIC NOISE METER S/N 1403140 ENVIRONMENTAL TESTING .....             | 4         |
| <b>3</b> | <b>INDOOR LIVING AREAS .....</b>                                         | <b>5</b>  |
| <b>4</b> | <b>RESULTS .....</b>                                                     | <b>6</b>  |
| 4.1      | PLOT 33, 30 <sup>TH</sup> SEPTEMBER – 1 <sup>ST</sup> OCTOBER 2017 ..... | 6         |
| 4.2      | PLOT 33, 1 <sup>ST</sup> – 2 <sup>ND</sup> OCTOBER 2017 .....            | 7         |
| 4.3      | PLOT 33, 2 <sup>ND</sup> – 3 <sup>RD</sup> OCTOBER 2017 .....            | 8         |
| 4.4      | PLOT 36, 30 <sup>TH</sup> SEPTEMBER – 1 <sup>ST</sup> OCTOBER 2017 ..... | 9         |
| 4.5      | PLOT 36, 1 <sup>ST</sup> – 2 <sup>ND</sup> OCTOBER 2017 .....            | 10        |
| 4.6      | PLOT 36, 2 <sup>ND</sup> – 3 <sup>RD</sup> OCTOBER 2017 .....            | 11        |
| <b>5</b> | <b>ENVIRONMENTAL CONDITIONS .....</b>                                    | <b>12</b> |

## **1 INTRODUCTION**

Internal noise levels were recorded in the first floor bedroom of Plot 33 & 36 facing Littlehampton Road, as the planning condition stated that:

*Before first occupation of dwellings on proposed plots 1 – 4, 34 – 36 and 37 – 40 as determined on Proposed Site Layout FD13-1121-55 Rev A, post validation testing shall be undertaken by a competent person to determine compliance with BS8233: 2014 as stated in the acoustic report SA 2613/RV.04 produced by Sound Advice acoustics Ltd. This must be submitted and agreed in writing with the local planning authority before first occupation.*

The measurements were taken over continuous 15 minute periods and are averaged over the relevant assessment periods as agreed.

The following tabulated results have been evaluated from the attached figures 1- 6 for internal measurements.

These measurements have demonstrated compliance with the relevant standards and further validate the 3D CADNA A model previously submitted.

Therefore at this stage no further remedial works are required with regards to acoustics.

## 2 APPARATUS

The equipment was calibrated using a sound pressure level of 114.0 dB at an octave band centre frequency of 1000Hz with reference to  $2 \times 10^{-5} \text{ Nm}^{-2}$  before and after the tests and the equipment set to have no inaccuracy greater than 0.2dB.

All the following equipment was calibrated in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service (UKAS) on the following dates. Calibration schedules are implemented within Sound Advice Acoustics Ltd in accordance with UKAS directive LAB 23.

### 2.1 Norsonic noise meter s/n 31632 environmental testing

| Description                         | Make     | Type | Serial No.    | Calibration Intervals | Last Calibrated | Next Due Calibration |
|-------------------------------------|----------|------|---------------|-----------------------|-----------------|----------------------|
| Integrated Sound Level Meter        | Norsonic | 118  | <u>31632</u>  | 2 YEARS               | 25.04.2016      | 25.04.2018           |
| 12.5mm Microphone (with windshield) | Norsonic | 1220 | <u>179711</u> | 2 YEARS               | 25.04.2016      | 25.04.2018           |
| Microphone Pre – Amplifier          | Norsonic | 1201 | <u>30479</u>  | 2 YEARS               | 25.04.2016      | 25.04.2018           |

### 2.2 Norsonic noise meter s/n 1403140 environmental testing

| Description                         | Make     | Type | Serial No.     | Calibration Intervals | Last Calibrated | Next Due Calibration |
|-------------------------------------|----------|------|----------------|-----------------------|-----------------|----------------------|
| Integrated Sound Level Meter        | Norsonic | 140  | <u>1403140</u> | 2 YEARS               | 13.06.2016      | 13.06.2018           |
| 12.5mm Microphone (with windshield) | Norsonic | 1220 | <u>52260</u>   | 2 YEARS               | 13.06.2016      | 13.06.2018           |
| Microphone Pre – Amplifier          | Norsonic | 1201 | <u>30233</u>   | 2 YEARS               | 13.06.2016      | 13.06.2018           |

Full calibration certificates are available upon request.

### 3 INDOOR LIVING AREAS

BS 8233: 2014 set the following parameters as target levels that should be designed to within rooms such as Living Rooms and Bedrooms.

Table 2 Indoor ambient noise levels in spaces when they are unoccupied and privacy is also important

| Objective                                                  | Typical situations        | Design Range   |
|------------------------------------------------------------|---------------------------|----------------|
|                                                            |                           | $L_{Aeq,t}$ dB |
| Typical noise levels for acoustic privacy in shared spaces | Restaurant                | 40 – 55        |
|                                                            | Open plan office          | 45 – 50        |
|                                                            | Night club, public house  | 40 – 45        |
|                                                            | Ballroom, banqueting hall | 35 – 40        |
|                                                            | Living room               | 35 – 40        |

NOTE See Noise control in building services [28] and BS EN ISO 3382.

Table 4 Indoor ambient noise levels for dwellings

| Activity                   | Location           | 07:00 – 23:00                    | 23:00 – 07:00                   |
|----------------------------|--------------------|----------------------------------|---------------------------------|
| Resting                    | Living Room        | 35 dB $L_{Aeq, 16 \text{ HOUR}}$ | --                              |
| Dining                     | Dining Room / Area | 40 dB $L_{Aeq, 16 \text{ HOUR}}$ | --                              |
| Sleeping (daytime resting) | Bedroom            | 35 dB $L_{Aeq, 16 \text{ HOUR}}$ | 30 dB $L_{Aeq, 8 \text{ HOUR}}$ |

Plot 33 Daytime Internal Noise Levels  $L_{Aeq, 16 \text{ HOUR}}$  dB

| Saturday 30 <sup>th</sup> September 2017 | Sunday 1 <sup>st</sup> October 2017 | Monday 2 <sup>nd</sup> October 2017 |
|------------------------------------------|-------------------------------------|-------------------------------------|
| 31.0                                     | 30.0                                | 31.2                                |

Plot 33 Night Time Internal Noise Levels  $L_{Aeq, 8 \text{ HOUR}}$  dB

| Saturday 30 <sup>th</sup> September 2017 | Sunday 1 <sup>st</sup> October 2017 | Monday 2 <sup>nd</sup> October 2017 |
|------------------------------------------|-------------------------------------|-------------------------------------|
| 24.0                                     | 24.1                                | 24.9                                |

Plot 36 Daytime Internal Noise Levels  $L_{Aeq, 16 \text{ HOUR}}$  dB

| Saturday 30 <sup>th</sup> September 2017 | Sunday 1 <sup>st</sup> October 2017 | Monday 2 <sup>nd</sup> October 2017 |
|------------------------------------------|-------------------------------------|-------------------------------------|
| 28.2                                     | 27.4                                | 33.2                                |

Plot 36 Night Time Internal Noise Levels  $L_{Aeq, 8 \text{ HOUR}}$  dB

| Saturday 30 <sup>th</sup> September 2017 | Sunday 1 <sup>st</sup> October 2017 | Monday 2 <sup>nd</sup> October 2017 |
|------------------------------------------|-------------------------------------|-------------------------------------|
| 22.2                                     | 21.5                                | 21.0                                |

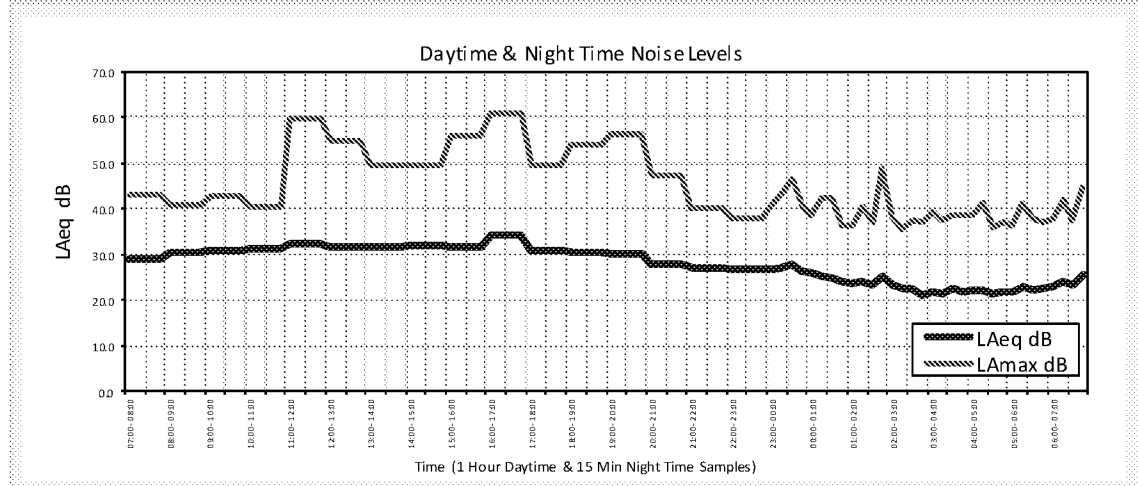
## 4 RESULTS

### 4.1 Plot 33, 30<sup>th</sup> September – 1<sup>st</sup> October 2017

| NOISE LEVEL SUMMARY ASSESSMENT                                                           |      |      | Octave Band Centre Frequency (Hz) |      |      |      |      |      |      |      |      |       |
|------------------------------------------------------------------------------------------|------|------|-----------------------------------|------|------|------|------|------|------|------|------|-------|
| Date / Time                                                                              | LAeq | LAmx | 31.5                              | 63   | 125  | 250  | 500  | 1.0k | 2.0k | 4.0k | 8.0k | 16.0k |
| DAYTIME 07:00 - 23:00<br><small>LAeq 16 HOUR &amp; Cor 1 second eq LAmx 16 HOUR</small>  | 31.0 | 54.0 | 46.5                              | 46.7 | 35.2 | 34.3 | 25.6 | 27.1 | 17.9 | 11.8 | 10.7 | 9.8   |
| NIGHT TIME 23:00 - 07:00<br><small>LAeq 8 HOUR &amp; Cor 1 second eq LAmx 8 HOUR</small> | 24.0 | 41.0 | 38.5                              | 38.1 | 28.1 | 26.1 | 18.9 | 19.5 | 12.8 | 11.7 | 10.8 | 9.8   |

| DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES |      |      | Octave Band Centre Frequency (Hz) |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------|------|------|-----------------------------------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                       | LAeq | LAmx | 31.5                              | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 07:00 - 08:00                                     | 29.1 | 43.3 | 43.8                              | 44.4 | 33.3 | 32.3 | 23.1 | 25.4  | 15.8  | 11.0  | 10.6  | 9.8    |
| 08:00 - 09:00                                     | 30.4 | 40.9 | 46.3                              | 45.7 | 33.6 | 33.3 | 24.5 | 27.0  | 17.1  | 11.3  | 10.6  | 9.8    |
| 09:00 - 10:00                                     | 30.7 | 42.9 | 46.9                              | 47.0 | 34.8 | 33.9 | 24.9 | 27.1  | 17.0  | 11.5  | 10.6  | 9.8    |
| 10:00 - 11:00                                     | 31.2 | 40.6 | 47.6                              | 47.8 | 35.2 | 34.3 | 25.4 | 27.6  | 17.3  | 11.5  | 10.6  | 9.8    |
| 11:00 - 12:00                                     | 32.4 | 59.9 | 48.4                              | 48.1 | 35.9 | 35.4 | 25.8 | 29.0  | 20.0  | 11.5  | 10.6  | 9.8    |
| 12:00 - 13:00                                     | 31.6 | 54.7 | 48.5                              | 48.3 | 35.6 | 34.6 | 25.4 | 28.1  | 18.4  | 11.3  | 10.8  | 9.8    |
| 13:00 - 14:00                                     | 31.7 | 49.4 | 48.1                              | 48.1 | 36.8 | 35.9 | 26.0 | 27.3  | 16.9  | 11.2  | 10.6  | 9.8    |
| 14:00 - 15:00                                     | 32.1 | 49.6 | 49.1                              | 49.1 | 37.7 | 36.7 | 26.7 | 27.2  | 16.9  | 11.7  | 10.7  | 9.8    |
| 15:00 - 16:00                                     | 31.8 | 55.9 | 47.9                              | 47.9 | 36.8 | 35.0 | 26.1 | 27.9  | 19.6  | 12.5  | 10.7  | 9.8    |
| 16:00 - 17:00                                     | 34.3 | 61.0 | 47.4                              | 48.1 | 39.4 | 38.3 | 31.6 | 29.2  | 18.4  | 12.4  | 10.7  | 9.8    |
| 17:00 - 18:00                                     | 31.0 | 49.5 | 46.3                              | 47.1 | 35.1 | 34.1 | 25.4 | 27.5  | 17.3  | 11.4  | 10.6  | 9.8    |
| 18:00 - 19:00                                     | 30.7 | 54.2 | 45.7                              | 46.5 | 34.2 | 33.1 | 24.4 | 26.8  | 21.2  | 11.6  | 10.7  | 9.8    |
| 19:00 - 20:00                                     | 30.2 | 56.5 | 44.1                              | 44.3 | 32.8 | 32.5 | 23.0 | 27.3  | 16.5  | 11.7  | 10.7  | 9.8    |
| 20:00 - 21:00                                     | 27.6 | 47.1 | 41.3                              | 41.8 | 32.3 | 31.6 | 21.3 | 23.9  | 15.4  | 12.3  | 10.8  | 9.8    |
| 21:00 - 22:00                                     | 27.0 | 40.1 | 40.3                              | 41.3 | 29.5 | 28.4 | 20.9 | 23.9  | 15.3  | 11.9  | 10.8  | 9.8    |
| 22:00 - 23:00                                     | 26.6 | 37.8 | 41.9                              | 41.6 | 29.3 | 28.6 | 21.6 | 22.9  | 15.7  | 13.7  | 11.0  | 9.8    |

| NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES |      |      | Octave Band Centre Frequency (Hz) |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------------|------|------|-----------------------------------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                             | LAeq | LAmx | 31.5                              | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 23:00 - 23:15                                           | 26.7 | 40.8 | 40.7                              | 40.4 | 29.0 | 28.7 | 21.2 | 23.0  | 15.8  | 13.7  | 11.0  | 9.8    |
| 23:15 - 23:30                                           | 27.2 | 43.6 | 41.7                              | 41.2 | 32.3 | 29.3 | 21.8 | 23.2  | 15.6  | 13.4  | 11.0  | 9.8    |
| 23:30 - 23:45                                           | 27.8 | 46.6 | 41.8                              | 42.0 | 34.5 | 29.7 | 22.1 | 23.6  | 16.0  | 13.6  | 11.0  | 9.8    |
| 23:45 - 00:00                                           | 26.5 | 40.6 | 40.1                              | 41.5 | 29.2 | 28.3 | 20.7 | 22.9  | 15.0  | 12.7  | 10.9  | 9.8    |
| 00:00 - 00:15                                           | 25.9 | 36.8 | 39.5                              | 39.2 | 28.7 | 27.1 | 20.5 | 22.4  | 14.6  | 12.5  | 10.9  | 9.8    |
| 00:15 - 00:30                                           | 25.3 | 42.5 | 37.6                              | 41.4 | 28.5 | 27.0 | 19.7 | 21.1  | 13.6  | 12.0  | 10.9  | 9.8    |
| 00:30 - 00:45                                           | 25.0 | 42.4 | 39.4                              | 38.0 | 27.9 | 26.9 | 20.2 | 20.8  | 14.0  | 12.5  | 11.0  | 9.8    |
| 00:45 - 01:00                                           | 24.1 | 36.4 | 36.8                              | 39.0 | 26.8 | 25.6 | 19.0 | 19.7  | 13.3  | 12.3  | 10.9  | 9.8    |
| 01:00 - 01:15                                           | 23.9 | 36.5 | 39.0                              | 37.5 | 26.9 | 26.0 | 18.8 | 19.4  | 12.8  | 11.9  | 10.9  | 9.8    |
| 01:15 - 01:30                                           | 24.1 | 40.4 | 39.6                              | 37.0 | 27.3 | 25.2 | 19.1 | 19.9  | 13.1  | 12.0  | 10.9  | 9.8    |
| 01:30 - 01:45                                           | 23.4 | 37.1 | 37.6                              | 38.1 | 25.9 | 24.2 | 18.5 | 19.1  | 12.6  | 11.7  | 10.8  | 9.8    |
| 01:45 - 02:00                                           | 25.4 | 48.7 | 38.4                              | 38.7 | 33.1 | 29.6 | 19.6 | 19.5  | 12.7  | 11.6  | 10.8  | 9.8    |
| 02:00 - 02:15                                           | 23.3 | 36.3 | 38.5                              | 35.6 | 25.4 | 24.4 | 18.1 | 19.3  | 12.5  | 11.4  | 10.8  | 9.8    |
| 02:15 - 02:30                                           | 22.4 | 35.7 | 38.4                              | 35.5 | 25.6 | 24.4 | 17.6 | 17.2  | 11.4  | 11.1  | 10.8  | 9.8    |
| 02:30 - 02:45                                           | 22.6 | 37.4 | 38.2                              | 39.8 | 26.0 | 23.9 | 17.6 | 17.5  | 11.9  | 11.4  | 10.8  | 9.8    |
| 02:45 - 03:00                                           | 21.2 | 37.3 | 37.2                              | 34.8 | 24.1 | 21.9 | 16.8 | 15.9  | 10.8  | 10.9  | 10.7  | 9.8    |
| 03:00 - 03:15                                           | 21.8 | 39.3 | 37.4                              | 35.6 | 25.1 | 23.3 | 17.3 | 16.4  | 11.3  | 11.2  | 10.7  | 9.8    |
| 03:15 - 03:30                                           | 21.6 | 37.6 | 37.8                              | 33.9 | 24.7 | 23.4 | 17.1 | 16.0  | 11.1  | 11.1  | 10.7  | 9.8    |
| 03:30 - 03:45                                           | 22.5 | 38.7 | 38.1                              | 39.4 | 25.2 | 23.5 | 18.0 | 17.6  | 11.7  | 11.4  | 10.8  | 9.8    |
| 03:45 - 04:00                                           | 21.9 | 38.8 | 36.5                              | 34.7 | 25.0 | 23.5 | 17.1 | 16.8  | 11.1  | 11.0  | 10.7  | 9.8    |
| 04:00 - 04:15                                           | 22.1 | 38.5 | 37.4                              | 34.5 | 25.1 | 23.8 | 17.5 | 16.9  | 11.3  | 11.2  | 10.8  | 9.8    |
| 04:15 - 04:30                                           | 22.3 | 41.1 | 38.0                              | 34.0 | 25.8 | 23.2 | 17.6 | 17.4  | 11.8  | 11.3  | 10.7  | 9.8    |
| 04:30 - 04:45                                           | 21.3 | 36.0 | 37.1                              | 37.5 | 24.5 | 22.7 | 16.9 | 15.7  | 10.3  | 10.8  | 10.7  | 9.8    |
| 04:45 - 05:00                                           | 22.0 | 37.3 | 36.4                              | 35.9 | 25.1 | 22.8 | 17.3 | 17.1  | 11.3  | 11.0  | 10.7  | 9.8    |
| 05:00 - 05:15                                           | 21.9 | 36.4 | 36.9                              | 35.7 | 24.8 | 23.3 | 17.4 | 16.8  | 10.9  | 10.9  | 10.7  | 9.8    |
| 05:15 - 05:30                                           | 22.8 | 41.3 | 38.0                              | 37.3 | 28.6 | 26.1 | 17.4 | 16.7  | 11.2  | 11.1  | 10.7  | 9.8    |
| 05:30 - 05:45                                           | 22.2 | 37.8 | 37.6                              | 36.4 | 25.8 | 23.5 | 17.7 | 17.3  | 11.4  | 11.0  | 10.7  | 9.8    |
| 05:45 - 06:00                                           | 22.7 | 37.3 | 37.6                              | 35.5 | 25.1 | 23.8 | 18.1 | 16.3  | 11.7  | 11.0  | 10.7  | 9.8    |
| 06:00 - 06:15                                           | 22.8 | 37.7 | 38.5                              | 38.5 | 25.9 | 24.7 | 18.3 | 17.5  | 11.7  | 11.2  | 10.7  | 9.8    |
| 06:15 - 06:30                                           | 24.2 | 41.9 | 37.3                              | 38.1 | 30.5 | 28.2 | 19.1 | 18.3  | 11.5  | 11.0  | 10.7  | 9.8    |
| 06:30 - 06:45                                           | 23.2 | 37.5 | 35.7                              | 36.0 | 25.1 | 24.1 | 18.4 | 19.1  | 12.5  | 11.4  | 10.7  | 9.8    |
| 06:45 - 07:00                                           | 25.6 | 44.5 | 38.5                              | 37.3 | 30.4 | 30.6 | 19.3 | 20.6  | 13.0  | 11.5  | 10.7  | 9.8    |

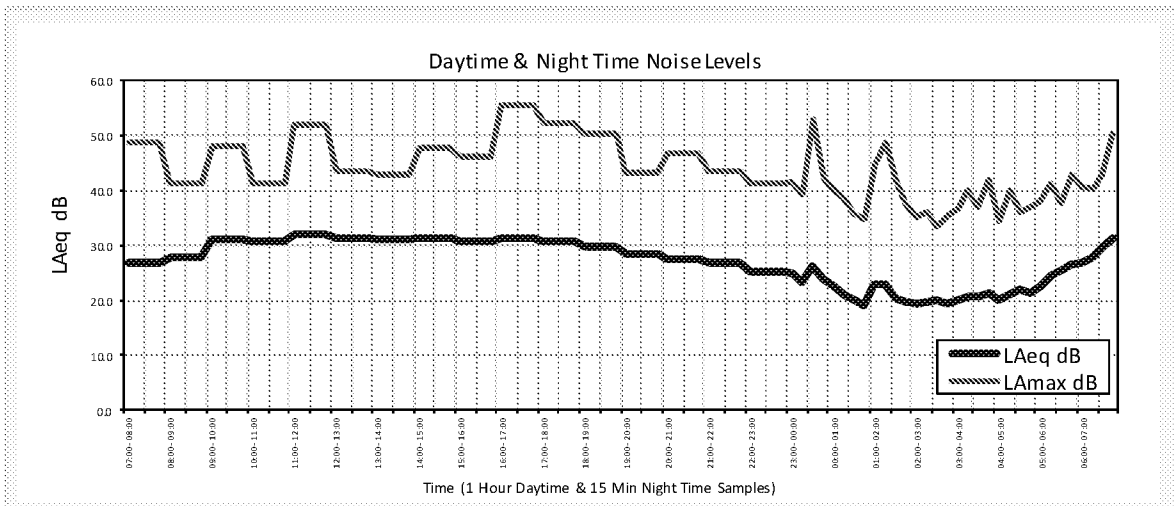


## 4.2 Plot 33, 1<sup>st</sup> – 2<sup>nd</sup> October 2017

| NOISE LEVEL SUMMARY ASSESSMENT                                                          |      | Octave Band Centre Frequency (Hz) |      |      |      |      |      |      |      |      |      |       |
|-----------------------------------------------------------------------------------------|------|-----------------------------------|------|------|------|------|------|------|------|------|------|-------|
| Date / Time                                                                             | LAeq | LAmaz                             | 31.5 | 63   | 125  | 250  | 500  | 1.0k | 2.0k | 4.0k | 8.0k | 16.0k |
| DAYTIME 07:00 - 23:00<br><small>LAeq 16 HOUR &amp; Corresponding LAmaz 16 HOUR</small>  | 30.0 | 48.7                              | 44.8 | 45.2 | 33.7 | 32.7 | 24.3 | 26.5 | 17.3 | 12.0 | 10.7 | 9.8   |
| NIGHT TIME 23:00 - 07:00<br><small>LAeq 8 HOUR &amp; Corresponding LAmaz 8 HOUR</small> | 24.1 | 43.1                              | 38.4 | 38.6 | 28.1 | 26.8 | 19.6 | 19.6 | 11.5 | 10.3 | 10.6 | 9.8   |

| DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES |      | Octave Band Centre Frequency (Hz) |      |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------|------|-----------------------------------|------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                       | LAeq | LAmaz                             | 31.5 | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 07:00 - 08:00                                     | 26.9 | 48.7                              | 40.2 | 40.5 | 30.2 | 30.0 | 21.7 | 23.0  | 15.0  | 12.5  | 10.8  | 9.8    |
| 08:00 - 09:00                                     | 27.7 | 41.0                              | 41.9 | 42.5 | 29.9 | 29.4 | 22.0 | 24.5  | 16.0  | 13.0  | 10.9  | 9.8    |
| 09:00 - 10:00                                     | 30.9 | 47.9                              | 44.2 | 44.7 | 35.3 | 33.5 | 26.3 | 27.3  | 18.0  | 13.7  | 10.9  | 9.8    |
| 10:00 - 11:00                                     | 30.8 | 41.3                              | 46.5 | 46.9 | 33.5 | 32.8 | 25.0 | 27.8  | 18.0  | 12.3  | 10.7  | 9.8    |
| 11:00 - 12:00                                     | 32.0 | 51.9                              | 47.9 | 48.6 | 35.5 | 34.5 | 26.2 | 28.6  | 19.3  | 11.9  | 10.7  | 9.8    |
| 12:00 - 13:00                                     | 31.4 | 43.6                              | 47.8 | 47.6 | 36.1 | 34.4 | 25.7 | 27.7  | 17.4  | 11.4  | 10.6  | 9.8    |
| 13:00 - 14:00                                     | 31.1 | 43.0                              | 47.5 | 47.2 | 34.1 | 33.9 | 25.7 | 27.7  | 17.6  | 11.7  | 10.7  | 9.8    |
| 14:00 - 15:00                                     | 31.4 | 47.5                              | 47.2 | 47.7 | 35.3 | 34.2 | 25.9 | 27.8  | 18.0  | 12.3  | 10.7  | 9.8    |
| 15:00 - 16:00                                     | 30.8 | 46.0                              | 45.8 | 46.6 | 35.2 | 33.8 | 25.0 | 27.4  | 17.4  | 11.9  | 10.7  | 9.8    |
| 16:00 - 17:00                                     | 31.2 | 55.5                              | 44.9 | 45.9 | 34.4 | 33.3 | 25.0 | 27.8  | 20.4  | 12.5  | 10.7  | 9.8    |
| 17:00 - 18:00                                     | 30.8 | 52.1                              | 43.8 | 44.3 | 34.7 | 34.5 | 24.1 | 27.3  | 17.8  | 12.1  | 10.7  | 9.8    |
| 18:00 - 19:00                                     | 29.7 | 50.3                              | 42.5 | 43.2 | 34.2 | 33.3 | 23.9 | 26.0  | 16.8  | 11.6  | 10.6  | 9.8    |
| 19:00 - 20:00                                     | 28.5 | 43.2                              | 41.3 | 41.9 | 31.3 | 31.0 | 22.6 | 25.4  | 16.2  | 11.5  | 10.7  | 9.8    |
| 20:00 - 21:00                                     | 27.3 | 46.6                              | 40.2 | 41.0 | 30.9 | 29.9 | 21.8 | 23.8  | 14.9  | 11.1  | 10.6  | 9.8    |
| 21:00 - 22:00                                     | 26.7 | 43.4                              | 39.3 | 40.9 | 30.9 | 29.1 | 21.4 | 23.0  | 14.5  | 11.0  | 10.6  | 9.8    |
| 22:00 - 23:00                                     | 25.2 | 41.2                              | 38.5 | 38.6 | 28.9 | 27.5 | 19.9 | 21.4  | 13.3  | 10.8  | 10.7  | 9.8    |

| NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES |      | Octave Band Centre Frequency (Hz) |      |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------------|------|-----------------------------------|------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                             | LAeq | LAmaz                             | 31.5 | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 23:00 - 23:15                                           | 24.7 | 41.5                              | 40.3 | 41.6 | 26.3 | 24.6 | 19.6 | 21.3  | 13.3  | 10.7  | 10.6  | 9.8    |
| 23:15 - 23:30                                           | 23.2 | 39.3                              | 34.4 | 34.8 | 25.4 | 24.2 | 18.5 | 19.5  | 11.5  | 10.3  | 10.6  | 9.8    |
| 23:30 - 23:45                                           | 26.0 | 53.0                              | 35.9 | 37.4 | 32.0 | 31.5 | 21.9 | 19.7  | 11.6  | 10.5  | 10.6  | 9.8    |
| 23:45 - 00:00                                           | 23.8 | 42.1                              | 37.4 | 38.8 | 28.1 | 26.9 | 18.8 | 19.1  | 11.4  | 10.3  | 10.8  | 9.8    |
| 00:00 - 00:15                                           | 22.6 | 40.1                              | 32.8 | 34.3 | 25.9 | 23.8 | 17.9 | 18.4  | 11.0  | 10.3  | 10.6  | 9.8    |
| 00:15 - 00:30                                           | 20.9 | 38.6                              | 31.4 | 30.7 | 22.9 | 20.7 | 17.1 | 16.1  | 10.1  | 10.2  | 10.6  | 9.8    |
| 00:30 - 00:45                                           | 20.1 | 35.7                              | 31.8 | 35.6 | 22.8 | 19.8 | 16.6 | 14.1  | 9.5   | 10.1  | 10.6  | 9.8    |
| 00:45 - 01:00                                           | 19.1 | 34.7                              | 29.6 | 32.2 | 21.8 | 18.5 | 16.3 | 11.4  | 8.7   | 10.1  | 10.6  | 9.8    |
| 01:00 - 01:15                                           | 22.8 | 44.7                              | 35.1 | 34.5 | 29.8 | 27.0 | 18.6 | 15.1  | 9.8   | 10.2  | 10.6  | 9.8    |
| 01:15 - 01:30                                           | 23.0 | 48.8                              | 37.0 | 35.3 | 30.4 | 28.0 | 18.7 | 15.7  | 9.3   | 10.1  | 10.6  | 9.8    |
| 01:30 - 01:45                                           | 20.2 | 41.4                              | 37.3 | 36.3 | 23.6 | 19.9 | 16.8 | 14.2  | 9.1   | 10.1  | 10.6  | 9.8    |
| 01:45 - 02:00                                           | 19.6 | 37.8                              | 30.0 | 30.2 | 24.5 | 20.8 | 16.3 | 11.9  | 8.6   | 10.1  | 10.6  | 9.8    |
| 02:00 - 02:15                                           | 19.5 | 35.1                              | 30.9 | 31.0 | 23.4 | 20.6 | 16.1 | 12.2  | 8.7   | 10.1  | 10.6  | 9.8    |
| 02:15 - 02:30                                           | 19.6 | 36.0                              | 28.7 | 28.2 | 23.5 | 21.3 | 16.1 | 12.1  | 8.6   | 10.0  | 10.6  | 9.8    |
| 02:30 - 02:45                                           | 20.0 | 33.5                              | 35.1 | 36.7 | 23.8 | 21.3 | 16.5 | 12.8  | 8.7   | 10.1  | 10.6  | 9.8    |
| 02:45 - 03:00                                           | 19.2 | 35.3                              | 29.4 | 29.1 | 21.7 | 18.8 | 16.1 | 12.4  | 8.7   | 10.1  | 10.6  | 9.8    |
| 03:00 - 03:15                                           | 20.0 | 36.6                              | 32.0 | 31.4 | 22.5 | 20.0 | 16.6 | 14.3  | 9.3   | 10.1  | 10.6  | 9.8    |
| 03:15 - 03:30                                           | 20.5 | 39.8                              | 42.9 | 38.8 | 24.6 | 20.6 | 17.0 | 13.3  | 9.1   | 10.3  | 10.6  | 9.8    |
| 03:30 - 03:45                                           | 20.6 | 37.1                              | 33.3 | 36.4 | 23.4 | 20.7 | 16.8 | 15.0  | 9.6   | 10.2  | 10.6  | 9.8    |
| 03:45 - 04:00                                           | 21.4 | 41.7                              | 36.1 | 38.6 | 25.3 | 21.9 | 18.2 | 15.0  | 9.5   | 10.2  | 10.6  | 9.8    |
| 04:00 - 04:15                                           | 20.1 | 34.5                              | 33.0 | 32.1 | 22.6 | 20.3 | 16.9 | 14.1  | 9.3   | 10.1  | 10.6  | 9.8    |
| 04:15 - 04:30                                           | 21.0 | 40.0                              | 32.6 | 31.5 | 23.2 | 20.8 | 17.4 | 16.3  | 10.2  | 10.1  | 10.6  | 9.8    |
| 04:30 - 04:45                                           | 22.1 | 35.9                              | 37.9 | 39.9 | 26.1 | 24.1 | 18.3 | 16.2  | 10.0  | 10.2  | 10.6  | 9.8    |
| 04:45 - 05:00                                           | 21.2 | 36.9                              | 35.2 | 35.9 | 26.4 | 22.7 | 18.0 | 14.2  | 9.5   | 10.2  | 10.6  | 9.8    |
| 05:00 - 05:15                                           | 22.5 | 38.0                              | 34.0 | 35.1 | 24.8 | 23.8 | 18.6 | 16.3  | 10.5  | 10.2  | 10.6  | 9.8    |
| 05:15 - 05:30                                           | 24.4 | 41.3                              | 42.9 | 37.5 | 28.0 | 27.1 | 20.3 | 20.1  | 11.4  | 10.3  | 10.8  | 9.8    |
| 05:30 - 05:45                                           | 25.4 | 37.7                              | 39.5 | 39.9 | 28.0 | 27.0 | 20.5 | 21.9  | 13.0  | 10.4  | 10.6  | 9.8    |
| 05:45 - 06:00                                           | 26.5 | 42.8                              | 40.7 | 39.2 | 31.6 | 29.3 | 21.1 | 22.6  | 13.4  | 10.6  | 10.6  | 9.8    |
| 06:00 - 06:15                                           | 26.7 | 40.7                              | 41.5 | 40.6 | 31.2 | 29.1 | 21.7 | 23.1  | 13.8  | 10.5  | 10.6  | 9.8    |
| 06:15 - 06:30                                           | 27.8 | 40.2                              | 43.0 | 43.1 | 30.7 | 30.3 | 23.0 | 24.4  | 14.6  | 10.7  | 10.6  | 9.8    |
| 06:30 - 06:45                                           | 29.7 | 42.8                              | 43.8 | 44.7 | 34.3 | 33.4 | 24.2 | 26.0  | 15.7  | 10.9  | 10.6  | 9.8    |
| 06:45 - 07:00                                           | 31.3 | 50.2                              | 44.9 | 46.6 | 34.9 | 35.2 | 26.3 | 27.5  | 17.3  | 11.3  | 10.6  | 9.8    |

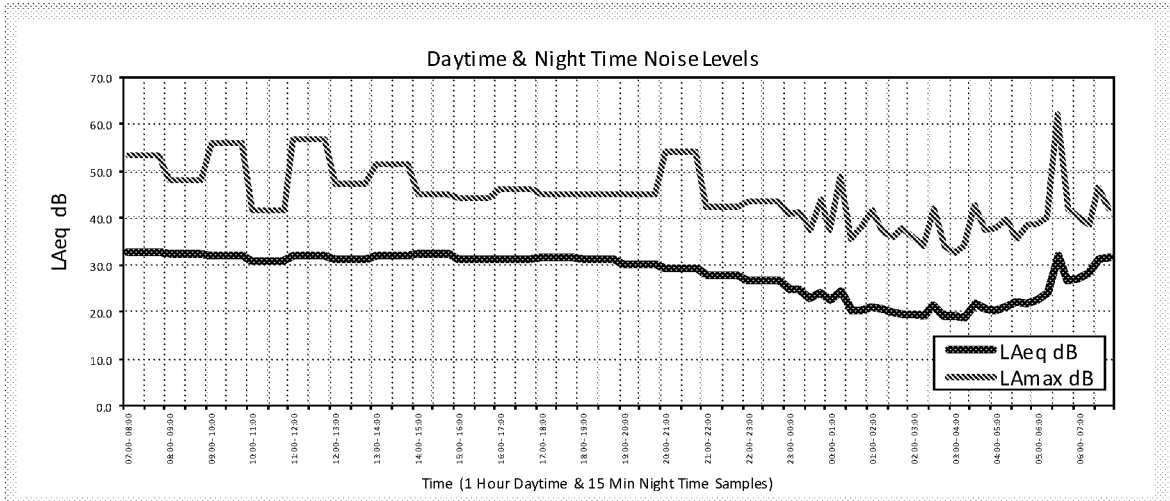


## 4.3 Plot 33, 2<sup>nd</sup> – 3<sup>rd</sup> October 2017

| NOISE LEVEL SUMMARY ASSESSMENT                                                          |      |       | Octave Band Centre Frequency (Hz) |      |      |      |      |      |      |      |      |       |
|-----------------------------------------------------------------------------------------|------|-------|-----------------------------------|------|------|------|------|------|------|------|------|-------|
| Date / Time                                                                             | LAeq | LAmaz | 31.5                              | 63   | 125  | 250  | 500  | 1.0k | 2.0k | 4.0k | 8.0k | 16.0k |
| DAYTIME 07:00 - 23:00<br><small>LAeq 16 HOUR &amp; Corresponding LAmaz 16 HOUR</small>  | 31.2 | 50.7  | 47.7                              | 47.4 | 35.2 | 34.6 | 26.1 | 27.3 | 17.9 | 12.1 | 10.7 | 9.8   |
| NIGHT TIME 23:00 - 07:00<br><small>LAeq 8 HOUR &amp; Corresponding LAmaz 8 HOUR</small> | 24.9 | 47.9  | 37.7                              | 38.6 | 29.1 | 28.5 | 19.8 | 20.3 | 12.1 | 10.3 | 10.6 | 9.8   |

| DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES |      |       |                                   |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------|------|-------|-----------------------------------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                       | LAeq | LAmaz | Octave Band Centre Frequency (Hz) |      |      |      |      |       |       |       |       |        |
|                                                   |      |       | 31.5                              | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 07:00 - 08:00                                     | 32.9 | 53.5  | 48.3                              | 47.6 | 37.0 | 37.2 | 27.2 | 28.9  | 18.6  | 11.8  | 10.6  | 9.8    |
| 08:00 - 09:00                                     | 32.3 | 48.1  | 48.5                              | 48.7 | 36.4 | 35.8 | 27.0 | 28.5  | 18.3  | 11.8  | 10.6  | 9.8    |
| 09:00 - 10:00                                     | 32.0 | 56.0  | 49.1                              | 48.3 | 35.4 | 34.8 | 26.2 | 28.5  | 20.0  | 11.7  | 10.6  | 9.8    |
| 10:00 - 11:00                                     | 31.0 | 41.5  | 48.6                              | 48.3 | 35.1 | 34.7 | 25.7 | 27.0  | 16.8  | 11.3  | 10.6  | 9.8    |
| 11:00 - 12:00                                     | 32.1 | 56.9  | 49.3                              | 48.8 | 36.1 | 35.5 | 26.0 | 28.4  | 19.0  | 11.5  | 10.6  | 9.8    |
| 12:00 - 13:00                                     | 31.2 | 47.5  | 49.5                              | 48.2 | 35.9 | 34.7 | 26.0 | 26.9  | 16.7  | 11.6  | 10.6  | 9.8    |
| 13:00 - 14:00                                     | 31.9 | 51.6  | 48.6                              | 48.1 | 36.3 | 35.4 | 28.2 | 27.4  | 17.4  | 12.2  | 10.7  | 9.8    |
| 14:00 - 15:00                                     | 32.3 | 45.0  | 49.0                              | 48.6 | 36.4 | 36.2 | 29.6 | 27.2  | 16.8  | 11.5  | 10.6  | 9.8    |
| 15:00 - 16:00                                     | 31.3 | 44.2  | 48.8                              | 48.5 | 36.0 | 34.6 | 26.0 | 27.4  | 17.0  | 11.3  | 10.6  | 9.8    |
| 16:00 - 17:00                                     | 31.4 | 46.1  | 48.0                              | 48.2 | 35.7 | 35.3 | 26.0 | 27.4  | 16.9  | 11.2  | 10.6  | 9.8    |
| 17:00 - 18:00                                     | 31.5 | 45.2  | 47.8                              | 48.2 | 34.9 | 34.4 | 26.1 | 28.0  | 17.8  | 12.2  | 10.7  | 9.8    |
| 18:00 - 19:00                                     | 31.1 | 45.1  | 46.0                              | 46.2 | 35.4 | 34.1 | 25.4 | 27.7  | 16.2  | 13.2  | 10.8  | 9.8    |
| 19:00 - 20:00                                     | 30.1 | 44.9  | 45.3                              | 45.5 | 33.6 | 33.0 | 24.3 | 26.5  | 17.9  | 14.4  | 11.0  | 9.8    |
| 20:00 - 21:00                                     | 29.5 | 54.2  | 42.3                              | 43.0 | 32.2 | 31.1 | 22.7 | 25.9  | 20.9  | 13.3  | 10.8  | 9.8    |
| 21:00 - 22:00                                     | 27.9 | 42.6  | 41.5                              | 42.0 | 32.0 | 30.0 | 22.3 | 24.5  | 15.6  | 11.7  | 10.7  | 9.8    |
| 22:00 - 23:00                                     | 26.6 | 43.7  | 40.3                              | 41.0 | 30.6 | 29.0 | 21.0 | 23.1  | 14.3  | 10.8  | 10.6  | 9.8    |

| NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES |                  |                   |                                   |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------------|------------------|-------------------|-----------------------------------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                             | L <sub>Aeq</sub> | L <sub>Amax</sub> | Octave Band Centre Frequency (Hz) |      |      |      |      |       |       |       |       |        |
|                                                         |                  |                   | 31.5                              | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 23:00 - 23:15                                           | 24.7             | 40.8              | 36.3                              | 37.9 | 29.2 | 26.6 | 19.0 | 21.1  | 12.7  | 10.5  | 10.6  | 9.8    |
| 23:15 - 23:30                                           | 25.0             | 41.1              | 35.1                              | 39.0 | 30.5 | 26.2 | 19.5 | 21.3  | 13.0  | 10.5  | 10.6  | 9.8    |
| 23:30 - 23:45                                           | 23.0             | 37.6              | 35.0                              | 37.2 | 26.0 | 23.6 | 18.0 | 19.2  | 11.9  | 10.3  | 10.6  | 9.8    |
| 23:45 - 00:00                                           | 24.0             | 43.9              | 35.8                              | 37.1 | 29.1 | 27.7 | 17.8 | 19.5  | 11.9  | 10.3  | 10.6  | 9.8    |
| 00:00 - 00:15                                           | 22.5             | 37.5              | 33.2                              | 33.2 | 25.2 | 24.8 | 17.8 | 18.4  | 11.0  | 10.2  | 10.6  | 9.8    |
| 00:15 - 00:30                                           | 24.3             | 49.0              | 37.4                              | 40.7 | 29.0 | 29.9 | 18.3 | 18.1  | 11.2  | 10.3  | 10.6  | 9.8    |
| 00:30 - 00:45                                           | 20.2             | 35.6              | 29.3                              | 34.0 | 22.7 | 20.0 | 16.6 | 14.7  | 9.7   | 10.1  | 10.6  | 9.8    |
| 00:45 - 01:00                                           | 20.2             | 38.1              | 30.5                              | 33.7 | 23.0 | 20.1 | 16.5 | 14.4  | 9.7   | 10.1  | 10.6  | 9.8    |
| 01:00 - 01:15                                           | 21.0             | 41.7              | 29.4                              | 31.3 | 23.5 | 21.6 | 17.2 | 16.2  | 10.1  | 10.2  | 10.6  | 9.8    |
| 01:15 - 01:30                                           | 20.8             | 37.2              | 32.3                              | 34.8 | 23.6 | 21.5 | 17.0 | 15.7  | 9.6   | 10.1  | 10.6  | 9.8    |
| 01:30 - 01:45                                           | 20.0             | 36.1              | 29.1                              | 34.2 | 24.0 | 20.8 | 16.4 | 13.9  | 9.0   | 10.1  | 10.6  | 9.8    |
| 01:45 - 02:00                                           | 19.6             | 37.7              | 31.1                              | 34.9 | 22.2 | 18.8 | 16.3 | 13.2  | 9.0   | 10.1  | 10.6  | 9.8    |
| 02:00 - 02:15                                           | 19.6             | 35.9              | 33.1                              | 31.8 | 22.2 | 17.7 | 16.5 | 13.5  | 9.3   | 10.1  | 10.6  | 9.8    |
| 02:15 - 02:30                                           | 19.3             | 34.1              | 26.7                              | 28.3 | 22.6 | 18.9 | 16.5 | 12.5  | 8.7   | 10.0  | 10.6  | 9.8    |
| 02:30 - 02:45                                           | 21.4             | 42.0              | 34.4                              | 35.5 | 23.7 | 22.0 | 18.0 | 16.5  | 9.4   | 10.1  | 10.6  | 9.8    |
| 02:45 - 03:00                                           | 19.1             | 34.2              | 28.6                              | 27.3 | 21.9 | 18.9 | 16.5 | 11.5  | 8.7   | 10.0  | 10.6  | 9.8    |
| 03:00 - 03:15                                           | 19.1             | 32.7              | 29.7                              | 29.8 | 21.9 | 18.2 | 16.6 | 12.0  | 8.7   | 10.0  | 10.6  | 9.8    |
| 03:15 - 03:30                                           | 18.9             | 34.0              | 30.0                              | 29.3 | 21.7 | 16.8 | 16.7 | 11.1  | 8.6   | 10.0  | 10.6  | 9.8    |
| 03:30 - 03:45                                           | 22.0             | 42.7              | 39.6                              | 38.6 | 25.6 | 22.8 | 18.2 | 16.9  | 10.3  | 10.2  | 10.6  | 9.8    |
| 03:45 - 04:00                                           | 20.8             | 37.4              | 30.4                              | 30.0 | 22.5 | 19.8 | 17.3 | 16.1  | 9.9   | 10.1  | 10.6  | 9.8    |
| 04:00 - 04:15                                           | 20.2             | 37.8              | 34.4                              | 34.8 | 23.1 | 20.9 | 17.3 | 13.5  | 9.1   | 10.1  | 10.6  | 9.8    |
| 04:15 - 04:30                                           | 21.0             | 39.6              | 32.7                              | 31.3 | 23.1 | 21.1 | 17.6 | 16.2  | 10.0  | 10.1  | 10.6  | 9.8    |
| 04:30 - 04:45                                           | 22.1             | 35.6              | 36.0                              | 37.3 | 24.9 | 23.8 | 17.9 | 17.3  | 10.7  | 10.2  | 10.6  | 9.8    |
| 04:45 - 05:00                                           | 21.7             | 38.7              | 33.6                              | 33.3 | 24.5 | 23.6 | 17.9 | 16.8  | 10.4  | 10.1  | 10.6  | 9.8    |
| 05:00 - 05:15                                           | 22.7             | 38.5              | 36.0                              | 34.8 | 25.1 | 24.4 | 18.1 | 18.6  | 10.9  | 10.2  | 10.6  | 9.8    |
| 05:15 - 05:30                                           | 24.2             | 40.0              | 40.6                              | 36.5 | 27.7 | 26.2 | 19.2 | 20.5  | 12.0  | 10.3  | 10.6  | 9.8    |
| 05:30 - 05:45                                           | 32.0             | 62.0              | 38.9                              | 44.3 | 38.3 | 38.6 | 26.2 | 22.4  | 13.8  | 10.8  | 10.6  | 9.8    |
| 05:45 - 06:00                                           | 26.6             | 42.1              | 41.4                              | 39.3 | 29.0 | 29.5 | 21.3 | 23.1  | 14.3  | 10.7  | 10.6  | 9.8    |
| 06:00 - 06:15                                           | 27.0             | 40.3              | 42.5                              | 40.3 | 28.9 | 29.6 | 21.8 | 23.8  | 14.4  | 10.7  | 10.6  | 9.8    |
| 06:15 - 06:30                                           | 28.3             | 38.6              | 42.4                              | 42.3 | 31.0 | 31.0 | 22.8 | 25.1  | 15.3  | 10.8  | 10.6  | 9.8    |
| 06:30 - 06:45                                           | 31.1             | 46.4              | 44.0                              | 44.9 | 36.1 | 35.1 | 25.1 | 27.3  | 17.3  | 11.3  | 10.6  | 9.8    |
| 06:45 - 07:00                                           | 31.6             | 42.2              | 45.3                              | 46.7 | 35.4 | 35.2 | 25.8 | 28.1  | 18.3  | 11.8  | 10.6  | 9.8    |

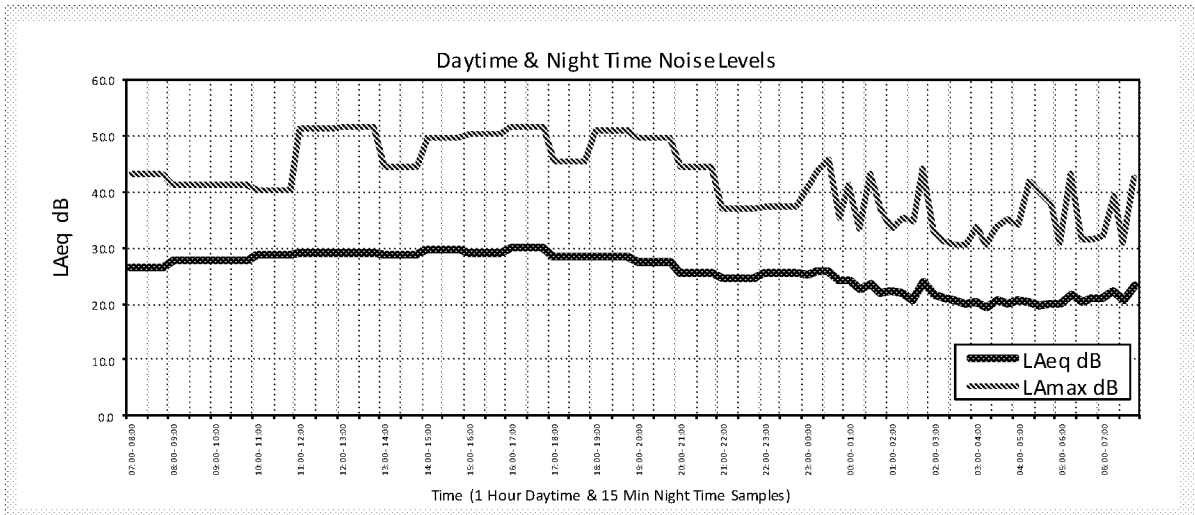


## 4.4 Plot 36, 30<sup>th</sup> September – 1<sup>st</sup> October 2017

| NOISE LEVEL SUMMARY ASSESSMENT                                                           |      | Octave Band Centre Frequency (Hz) |      |      |      |      |      |      |      |      |      |       |
|------------------------------------------------------------------------------------------|------|-----------------------------------|------|------|------|------|------|------|------|------|------|-------|
| Date / Time                                                                              | LAeq | LAmaz                             | 31.5 | 63   | 125  | 250  | 500  | 1.0k | 2.0k | 4.0k | 8.0k | 16.0k |
| DAYTIME 07:00 - 23:00<br><small>LAeq 16 HOUR &amp; Cor responding LAmaz 16 HOUR</small>  | 28.2 | 47.9                              | 49.5 | 49.0 | 33.8 | 29.9 | 18.4 | 21.6 | 19.5 | 14.3 | 10.8 | 10.8  |
| NIGHT TIME 23:00 - 07:00<br><small>LAeq 8 HOUR &amp; Cor responding LAmaz 8 HOUR</small> | 22.2 | 39.0                              | 43.3 | 39.0 | 25.9 | 22.4 | 11.7 | 14.2 | 15.0 | 14.3 | 10.9 | 10.8  |

| DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES |      | Octave Band Centre Frequency (Hz) |      |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------|------|-----------------------------------|------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                       | LAeq | LAmaz                             | 31.5 | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 07:00 - 08:00                                     | 26.5 | 43.2                              | 46.3 | 46.5 | 32.3 | 28.3 | 16.0 | 20.1  | 18.0  | 12.9  | 10.8  | 10.8   |
| 08:00 - 09:00                                     | 27.9 | 41.1                              | 50.2 | 48.8 | 32.9 | 29.3 | 18.1 | 21.7  | 19.4  | 13.4  | 10.8  | 10.8   |
| 09:00 - 10:00                                     | 27.9 | 41.2                              | 49.6 | 49.1 | 33.6 | 29.5 | 18.1 | 21.8  | 18.9  | 13.7  | 10.8  | 10.8   |
| 10:00 - 11:00                                     | 28.6 | 40.3                              | 50.1 | 50.3 | 34.3 | 30.0 | 18.8 | 22.3  | 19.2  | 13.3  | 10.8  | 10.8   |
| 11:00 - 12:00                                     | 29.1 | 51.1                              | 51.3 | 50.6 | 34.6 | 30.7 | 19.1 | 22.5  | 20.9  | 13.4  | 10.8  | 10.8   |
| 12:00 - 13:00                                     | 29.0 | 51.6                              | 51.4 | 50.3 | 34.9 | 30.3 | 18.7 | 23.2  | 19.9  | 13.6  | 10.8  | 10.8   |
| 13:00 - 14:00                                     | 28.8 | 44.4                              | 50.8 | 50.4 | 35.2 | 31.5 | 19.0 | 21.8  | 18.6  | 13.2  | 10.8  | 10.8   |
| 14:00 - 15:00                                     | 29.8 | 49.7                              | 52.3 | 51.6 | 36.5 | 33.3 | 19.7 | 22.0  | 18.8  | 13.7  | 10.8  | 10.8   |
| 15:00 - 16:00                                     | 29.2 | 50.4                              | 51.3 | 50.2 | 34.8 | 31.2 | 19.2 | 22.3  | 20.8  | 15.0  | 10.8  | 10.8   |
| 16:00 - 17:00                                     | 29.9 | 51.6                              | 50.5 | 50.2 | 35.8 | 32.5 | 23.2 | 23.1  | 20.0  | 14.7  | 10.8  | 10.8   |
| 17:00 - 18:00                                     | 28.4 | 45.4                              | 49.4 | 49.4 | 34.2 | 29.9 | 18.3 | 22.4  | 19.2  | 13.5  | 10.8  | 10.8   |
| 18:00 - 19:00                                     | 28.5 | 51.0                              | 48.4 | 48.6 | 33.4 | 28.8 | 17.4 | 21.8  | 21.9  | 15.0  | 10.9  | 10.8   |
| 19:00 - 20:00                                     | 27.4 | 49.7                              | 46.5 | 46.5 | 32.4 | 28.5 | 16.3 | 21.5  | 20.3  | 14.1  | 10.8  | 10.8   |
| 20:00 - 21:00                                     | 25.5 | 44.4                              | 44.2 | 43.7 | 31.5 | 27.3 | 14.5 | 18.8  | 17.9  | 15.0  | 10.9  | 10.8   |
| 21:00 - 22:00                                     | 24.4 | 36.9                              | 43.3 | 43.6 | 27.9 | 23.9 | 13.7 | 18.0  | 17.2  | 14.4  | 10.9  | 10.8   |
| 22:00 - 23:00                                     | 25.4 | 37.4                              | 45.8 | 43.0 | 28.0 | 24.6 | 15.4 | 17.9  | 16.8  | 17.3  | 10.9  | 10.8   |

| NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES |      | Octave Band Centre Frequency (Hz) |      |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------------|------|-----------------------------------|------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                             | LAeq | LAmaz                             | 31.5 | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 23:00 - 23:15                                           | 25.3 | 40.6                              | 44.5 | 41.6 | 27.4 | 25.3 | 14.5 | 18.1  | 18.8  | 17.3  | 10.9  | 10.8   |
| 23:15 - 23:30                                           | 25.9 | 43.7                              | 44.7 | 43.4 | 30.3 | 27.1 | 16.4 | 18.5  | 18.8  | 17.1  | 10.9  | 10.8   |
| 23:30 - 23:45                                           | 25.9 | 45.8                              | 46.4 | 43.8 | 31.9 | 26.1 | 15.6 | 18.0  | 18.6  | 17.2  | 10.9  | 10.8   |
| 23:45 - 00:00                                           | 24.1 | 35.3                              | 45.2 | 42.0 | 27.0 | 23.9 | 13.8 | 17.1  | 17.1  | 15.5  | 10.9  | 10.8   |
| 00:00 - 00:15                                           | 24.2 | 41.2                              | 43.2 | 41.5 | 30.1 | 24.1 | 14.7 | 16.7  | 16.7  | 15.2  | 10.9  | 10.8   |
| 00:15 - 00:30                                           | 22.7 | 33.4                              | 42.8 | 40.2 | 24.7 | 22.3 | 12.3 | 15.5  | 15.7  | 14.7  | 10.9  | 10.8   |
| 00:30 - 00:45                                           | 23.5 | 43.3                              | 44.6 | 42.2 | 27.8 | 23.0 | 13.2 | 14.9  | 16.1  | 15.5  | 10.9  | 10.8   |
| 00:45 - 01:00                                           | 22.0 | 36.7                              | 42.8 | 38.3 | 25.4 | 21.1 | 11.1 | 13.7  | 14.9  | 14.6  | 10.9  | 10.8   |
| 01:00 - 01:15                                           | 22.2 | 33.3                              | 44.6 | 39.7 | 24.8 | 21.8 | 11.9 | 14.0  | 15.0  | 14.7  | 10.9  | 10.8   |
| 01:15 - 01:30                                           | 22.1 | 35.3                              | 43.3 | 38.7 | 24.8 | 20.7 | 11.6 | 14.1  | 15.2  | 14.7  | 10.9  | 10.8   |
| 01:30 - 01:45                                           | 20.7 | 34.7                              | 40.9 | 37.6 | 22.3 | 18.7 | 9.9  | 12.4  | 13.6  | 13.8  | 10.9  | 10.8   |
| 01:45 - 02:00                                           | 24.0 | 44.1                              | 42.9 | 38.9 | 30.6 | 27.5 | 12.7 | 14.2  | 16.4  | 14.1  | 10.9  | 10.8   |
| 02:00 - 02:15                                           | 21.5 | 33.0                              | 44.2 | 37.3 | 22.9 | 20.4 | 10.9 | 14.0  | 14.7  | 14.1  | 10.9  | 10.8   |
| 02:15 - 02:30                                           | 21.1 | 31.1                              | 44.3 | 36.9 | 23.1 | 20.5 | 11.0 | 12.9  | 14.0  | 13.8  | 10.9  | 10.8   |
| 02:30 - 02:45                                           | 20.7 | 30.5                              | 44.2 | 37.7 | 22.5 | 19.6 | 10.0 | 11.8  | 13.4  | 13.7  | 10.9  | 10.8   |
| 02:45 - 03:00                                           | 20.0 | 30.5                              | 43.3 | 36.6 | 22.0 | 18.2 | 9.4  | 11.5  | 12.7  | 13.1  | 10.9  | 10.8   |
| 03:00 - 03:15                                           | 20.4 | 33.7                              | 42.6 | 37.3 | 22.2 | 18.7 | 9.4  | 11.6  | 13.2  | 13.4  | 10.8  | 10.8   |
| 03:15 - 03:30                                           | 19.4 | 30.4                              | 42.1 | 34.4 | 20.2 | 17.2 | 8.5  | 10.2  | 12.2  | 12.9  | 10.8  | 10.8   |
| 03:30 - 03:45                                           | 20.8 | 33.6                              | 43.3 | 35.9 | 22.3 | 19.4 | 10.5 | 12.6  | 13.8  | 13.9  | 10.9  | 10.8   |
| 03:45 - 04:00                                           | 20.1 | 35.1                              | 42.4 | 35.9 | 23.0 | 19.8 | 9.2  | 11.7  | 12.7  | 13.1  | 10.8  | 10.8   |
| 04:00 - 04:15                                           | 20.8 | 34.2                              | 44.6 | 35.2 | 21.9 | 19.5 | 10.7 | 12.6  | 13.8  | 13.8  | 10.9  | 10.8   |
| 04:15 - 04:30                                           | 20.4 | 41.9                              | 43.2 | 34.7 | 21.7 | 18.0 | 9.4  | 11.8  | 13.5  | 13.7  | 10.9  | 10.8   |
| 04:30 - 04:45                                           | 19.6 | 39.8                              | 42.8 | 33.8 | 20.4 | 18.0 | 9.2  | 11.3  | 12.3  | 12.8  | 10.8  | 10.8   |
| 04:45 - 05:00                                           | 20.1 | 37.9                              | 41.9 | 38.6 | 22.7 | 17.7 | 8.7  | 11.3  | 12.5  | 12.9  | 10.8  | 10.8   |
| 05:00 - 05:15                                           | 20.1 | 31.0                              | 43.3 | 37.5 | 21.6 | 18.5 | 9.6  | 12.0  | 12.6  | 12.9  | 10.8  | 10.8   |
| 05:15 - 05:30                                           | 21.5 | 43.3                              | 42.6 | 36.9 | 26.7 | 24.4 | 9.6  | 11.9  | 13.4  | 14.0  | 10.9  | 10.8   |
| 05:30 - 05:45                                           | 20.2 | 31.4                              | 42.1 | 36.0 | 23.4 | 18.5 | 9.6  | 11.8  | 13.0  | 13.1  | 10.8  | 10.8   |
| 05:45 - 06:00                                           | 20.9 | 31.5                              | 42.1 | 37.3 | 21.8 | 19.4 | 10.4 | 13.7  | 13.9  | 13.1  | 10.8  | 10.8   |
| 06:00 - 06:15                                           | 21.1 | 32.1                              | 43.1 | 38.5 | 23.1 | 20.2 | 10.6 | 12.5  | 14.1  | 13.7  | 10.8  | 10.8   |
| 06:15 - 06:30                                           | 22.2 | 39.2                              | 39.1 | 37.4 | 28.2 | 23.9 | 11.7 | 14.4  | 14.3  | 13.4  | 10.8  | 10.8   |
| 06:30 - 06:45                                           | 20.7 | 30.7                              | 37.8 | 37.1 | 22.0 | 19.3 | 9.4  | 13.3  | 13.7  | 12.9  | 10.9  | 10.8   |
| 06:45 - 07:00                                           | 23.4 | 42.6                              | 42.4 | 38.7 | 27.4 | 27.2 | 11.4 | 15.5  | 15.7  | 14.2  | 10.9  | 10.8   |

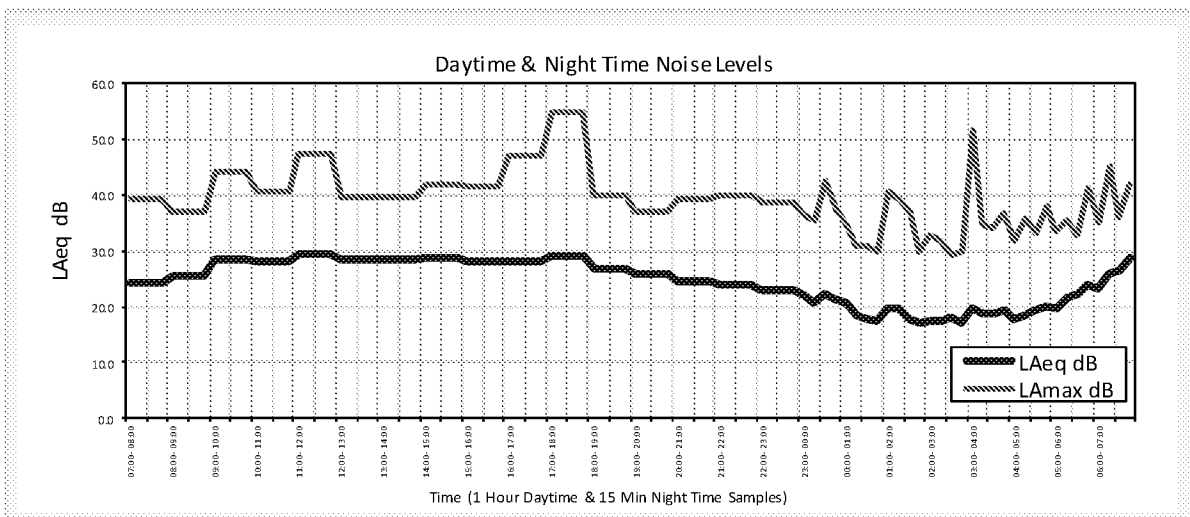


#### 4.5 Plot 36, 1<sup>st</sup> – 2<sup>nd</sup> October 2017

| NOISE LEVEL SUMMARY ASSESSMENT                                                                               |                  |                   | Octave Band Centre Frequency (Hz) |      |      |      |      |      |      |      |      |       |
|--------------------------------------------------------------------------------------------------------------|------------------|-------------------|-----------------------------------|------|------|------|------|------|------|------|------|-------|
| Date / Time                                                                                                  | L <sub>Aeq</sub> | L <sub>Amax</sub> | 31.5                              | 63   | 125  | 250  | 500  | 1.0k | 2.0k | 4.0k | 8.0k | 16.0k |
| DAYTIME 07:00 - 23:00<br><small>L<sub>Aeq</sub> 18 HOUR &amp; Corresponding L<sub>Amax</sub> 18 HOUR</small> | 27.4             | 45.3              | 47.9                              | 46.8 | 32.2 | 29.1 | 17.2 | 21.3 | 19.6 | 14.6 | 10.8 | 10.8  |
| NIGHTTIME 23:00 - 07:00<br><small>L<sub>Aeq</sub> 8 HOUR &amp; Corresponding L<sub>Amax</sub> 8 HOUR</small> | 21.5             | 39.9              | 40.6                              | 39.8 | 26.2 | 21.9 | 11.2 | 14.8 | 13.2 | 11.7 | 10.8 | 10.8  |

| DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES |      |       |                                   |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------|------|-------|-----------------------------------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                       | LAeq | LAmaz | Octave Band Centre Frequency (Hz) |      |      |      |      |       |       |       |       |        |
|                                                   |      |       | 31.5                              | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 07:00 - 08:00                                     | 24.3 | 39.2  | 42.0                              | 41.4 | 27.4 | 24.3 | 13.7 | 17.6  | 17.5  | 15.4  | 10.9  | 10.8   |
| 08:00 - 09:00                                     | 25.6 | 37.0  | 44.1                              | 44.0 | 28.6 | 25.3 | 15.0 | 19.3  | 18.7  | 16.3  | 10.9  | 10.8   |
| 09:00 - 10:00                                     | 28.4 | 44.0  | 46.5                              | 46.3 | 34.1 | 29.6 | 18.8 | 22.2  | 20.8  | 17.2  | 10.9  | 10.8   |
| 10:00 - 11:00                                     | 28.2 | 40.6  | 49.2                              | 48.6 | 32.2 | 28.6 | 18.2 | 22.5  | 20.6  | 15.1  | 10.9  | 10.8   |
| 11:00 - 12:00                                     | 29.5 | 47.3  | 51.0                              | 50.5 | 34.6 | 30.2 | 19.3 | 23.6  | 21.5  | 14.4  | 10.8  | 10.8   |
| 12:00 - 13:00                                     | 28.5 | 39.7  | 51.1                              | 49.5 | 34.2 | 30.0 | 18.7 | 22.4  | 19.5  | 13.5  | 10.8  | 10.8   |
| 13:00 - 14:00                                     | 28.3 | 39.5  | 50.7                              | 49.1 | 33.2 | 29.7 | 18.6 | 22.3  | 20.0  | 14.0  | 10.8  | 10.8   |
| 14:00 - 15:00                                     | 28.7 | 41.8  | 51.0                              | 49.5 | 34.0 | 30.0 | 19.1 | 22.5  | 20.4  | 15.0  | 10.9  | 10.8   |
| 15:00 - 16:00                                     | 28.2 | 41.6  | 51.5                              | 48.3 | 33.5 | 29.7 | 18.1 | 22.2  | 20.1  | 14.4  | 10.9  | 10.8   |
| 16:00 - 17:00                                     | 28.2 | 46.9  | 47.0                              | 46.9 | 32.4 | 29.1 | 18.1 | 22.5  | 21.1  | 15.1  | 10.9  | 10.8   |
| 17:00 - 18:00                                     | 29.1 | 54.8  | 45.8                              | 45.4 | 33.6 | 34.9 | 17.5 | 22.1  | 20.5  | 14.8  | 10.9  | 10.8   |
| 18:00 - 19:00                                     | 26.9 | 39.9  | 44.4                              | 44.6 | 32.1 | 28.3 | 16.6 | 21.1  | 19.6  | 14.0  | 10.8  | 10.8   |
| 19:00 - 20:00                                     | 25.7 | 36.9  | 43.7                              | 43.5 | 29.6 | 26.1 | 15.4 | 20.3  | 18.7  | 13.6  | 10.8  | 10.8   |
| 20:00 - 21:00                                     | 24.4 | 39.2  | 42.4                              | 42.2 | 28.8 | 24.8 | 14.1 | 18.6  | 17.2  | 13.0  | 10.8  | 10.8   |
| 21:00 - 22:00                                     | 24.0 | 39.9  | 41.9                              | 41.8 | 28.6 | 25.0 | 13.6 | 17.8  | 16.5  | 12.7  | 10.8  | 10.8   |
| 22:00 - 23:00                                     | 22.8 | 38.6  | 42.2                              | 40.3 | 27.3 | 23.8 | 12.3 | 16.6  | 15.3  | 12.3  | 10.8  | 10.8   |

| NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES |      |       |                                   |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------------|------|-------|-----------------------------------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                             | LAeq | Lamax | Octave Band Centre Frequency (Hz) |      |      |      |      |       |       |       |       |        |
|                                                         |      |       | 31.5                              | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 23:00 - 23:15                                           | 21.9 | 36.5  | 42.3                              | 42.2 | 24.0 | 19.9 | 11.1 | 15.5  | 14.7  | 12.1  | 10.8  | 10.8   |
| 23:15 - 23:30                                           | 20.6 | 35.3  | 38.1                              | 36.6 | 22.3 | 19.3 | 9.7  | 14.3  | 13.5  | 11.7  | 10.8  | 10.8   |
| 23:30 - 23:45                                           | 22.4 | 42.4  | 38.3                              | 37.8 | 31.9 | 24.7 | 11.9 | 14.6  | 13.0  | 11.6  | 10.8  | 10.8   |
| 23:45 - 00:00                                           | 21.4 | 37.4  | 39.9                              | 39.6 | 27.4 | 22.9 | 10.7 | 14.2  | 13.0  | 11.6  | 10.8  | 10.8   |
| 00:00 - 00:15                                           | 20.5 | 35.1  | 36.3                              | 36.0 | 25.8 | 20.1 | 8.8  | 13.7  | 12.8  | 11.5  | 10.8  | 10.8   |
| 00:15 - 00:30                                           | 18.5 | 31.0  | 35.3                              | 32.0 | 18.7 | 15.8 | 7.0  | 11.3  | 11.0  | 11.3  | 10.8  | 10.8   |
| 00:30 - 00:45                                           | 17.8 | 30.8  | 34.5                              | 30.9 | 17.0 | 14.1 | 6.1  | 9.9   | 10.3  | 11.1  | 10.8  | 10.8   |
| 00:45 - 01:00                                           | 17.3 | 29.9  | 33.3                              | 31.4 | 17.5 | 13.2 | 5.3  | 8.8   | 9.2   | 11.0  | 10.8  | 10.8   |
| 01:00 - 01:15                                           | 19.7 | 40.6  | 37.6                              | 35.4 | 25.2 | 22.8 | 9.1  | 9.7   | 10.3  | 11.2  | 10.8  | 10.8   |
| 01:15 - 01:30                                           | 19.8 | 39.3  | 38.8                              | 36.7 | 28.8 | 21.8 | 10.1 | 9.8   | 9.7   | 11.1  | 10.8  | 10.8   |
| 01:30 - 01:45                                           | 17.6 | 37.0  | 39.0                              | 33.1 | 18.5 | 15.6 | 6.7  | 8.5   | 9.3   | 11.0  | 10.8  | 10.8   |
| 01:45 - 02:00                                           | 17.1 | 29.8  | 32.2                              | 28.3 | 16.9 | 14.3 | 6.3  | 7.8   | 8.6   | 10.9  | 10.8  | 10.8   |
| 02:00 - 02:15                                           | 17.5 | 32.7  | 38.8                              | 33.4 | 19.4 | 14.9 | 5.3  | 8.5   | 8.8   | 10.9  | 10.8  | 10.8   |
| 02:15 - 02:30                                           | 17.3 | 31.8  | 33.0                              | 28.1 | 19.2 | 16.1 | 5.3  | 7.8   | 8.7   | 10.9  | 10.8  | 10.8   |
| 02:30 - 02:45                                           | 18.0 | 29.1  | 39.5                              | 34.7 | 19.7 | 16.7 | 7.1  | 9.4   | 9.1   | 11.0  | 10.8  | 10.8   |
| 02:45 - 03:00                                           | 17.2 | 30.0  | 31.9                              | 31.5 | 15.7 | 13.6 | 5.7  | 8.5   | 9.0   | 11.0  | 10.8  | 10.8   |
| 03:00 - 03:15                                           | 19.8 | 51.7  | 35.0                              | 30.6 | 16.3 | 14.3 | 6.6  | 9.2   | 13.6  | 14.5  | 10.9  | 10.8   |
| 03:15 - 03:30                                           | 18.7 | 34.6  | 41.7                              | 38.2 | 20.0 | 16.3 | 7.7  | 8.9   | 10.5  | 11.9  | 10.8  | 10.8   |
| 03:30 - 03:45                                           | 18.7 | 34.1  | 36.2                              | 36.3 | 23.6 | 15.5 | 7.1  | 10.2  | 10.3  | 11.4  | 10.8  | 10.8   |
| 03:45 - 04:00                                           | 19.2 | 36.6  | 38.8                              | 38.8 | 21.7 | 16.9 | 9.0  | 10.0  | 10.6  | 11.6  | 10.8  | 10.8   |
| 04:00 - 04:15                                           | 17.7 | 31.9  | 36.7                              | 32.1 | 16.8 | 14.5 | 6.6  | 9.5   | 9.6   | 11.1  | 10.8  | 10.8   |
| 04:15 - 04:30                                           | 18.3 | 35.8  | 35.2                              | 32.3 | 18.1 | 15.5 | 6.9  | 11.3  | 10.7  | 11.1  | 10.8  | 10.8   |
| 04:30 - 04:45                                           | 19.3 | 33.0  | 39.2                              | 37.1 | 22.1 | 18.9 | 8.3  | 11.4  | 11.2  | 11.2  | 10.8  | 10.8   |
| 04:45 - 05:00                                           | 20.0 | 37.9  | 40.2                              | 40.4 | 26.0 | 19.3 | 8.7  | 10.9  | 10.6  | 11.2  | 10.8  | 10.8   |
| 05:00 - 05:15                                           | 19.6 | 33.4  | 37.1                              | 37.4 | 21.6 | 18.6 | 9.1  | 12.9  | 11.2  | 11.2  | 10.8  | 10.8   |
| 05:15 - 05:30                                           | 21.6 | 35.5  | 44.9                              | 38.5 | 25.1 | 22.1 | 12.4 | 15.8  | 13.4  | 11.5  | 10.8  | 10.8   |
| 05:30 - 05:45                                           | 22.3 | 32.9  | 40.5                              | 40.1 | 25.4 | 22.4 | 12.2 | 16.6  | 14.6  | 11.6  | 10.8  | 10.8   |
| 05:45 - 06:00                                           | 24.0 | 41.1  | 43.7                              | 41.6 | 30.4 | 25.3 | 13.5 | 18.0  | 15.4  | 11.9  | 10.8  | 10.8   |
| 06:00 - 06:15                                           | 23.4 | 35.2  | 41.9                              | 41.4 | 26.3 | 23.2 | 13.3 | 17.9  | 15.9  | 12.6  | 10.8  | 10.8   |
| 06:15 - 06:30                                           | 25.9 | 45.0  | 45.7                              | 45.3 | 31.8 | 27.2 | 16.4 | 20.0  | 17.6  | 12.7  | 10.8  | 10.8   |
| 06:30 - 06:45                                           | 26.6 | 35.9  | 46.2                              | 45.5 | 31.7 | 28.3 | 17.1 | 21.1  | 18.2  | 12.8  | 10.8  | 10.8   |
| 06:45 - 07:00                                           | 28.6 | 41.8  | 47.2                              | 49.3 | 33.7 | 29.9 | 19.2 | 22.9  | 20.1  | 13.5  | 10.8  | 10.8   |

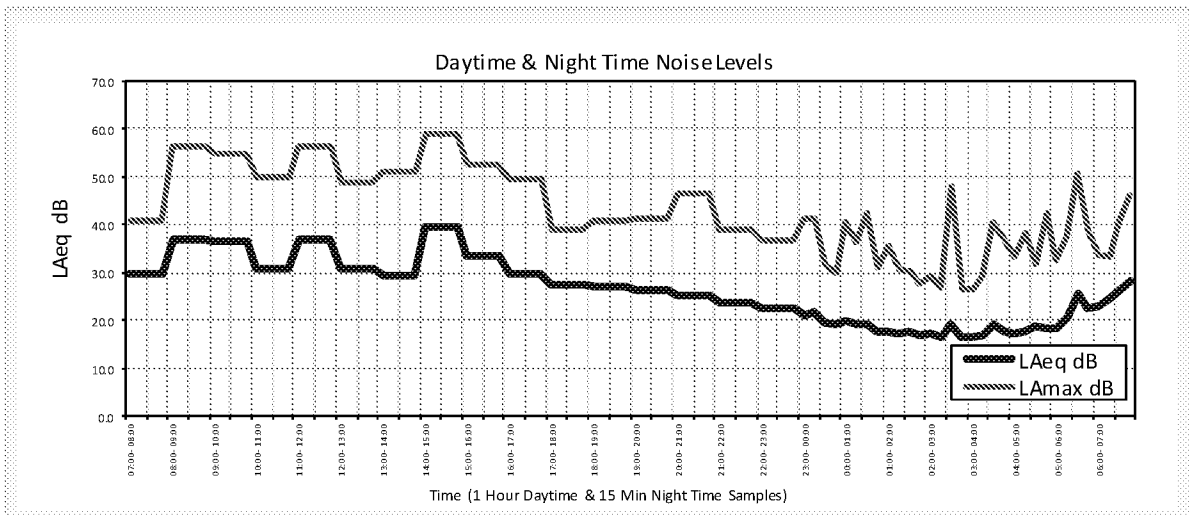


4.6 Plot 36, 2<sup>nd</sup> – 3<sup>rd</sup> October 2017

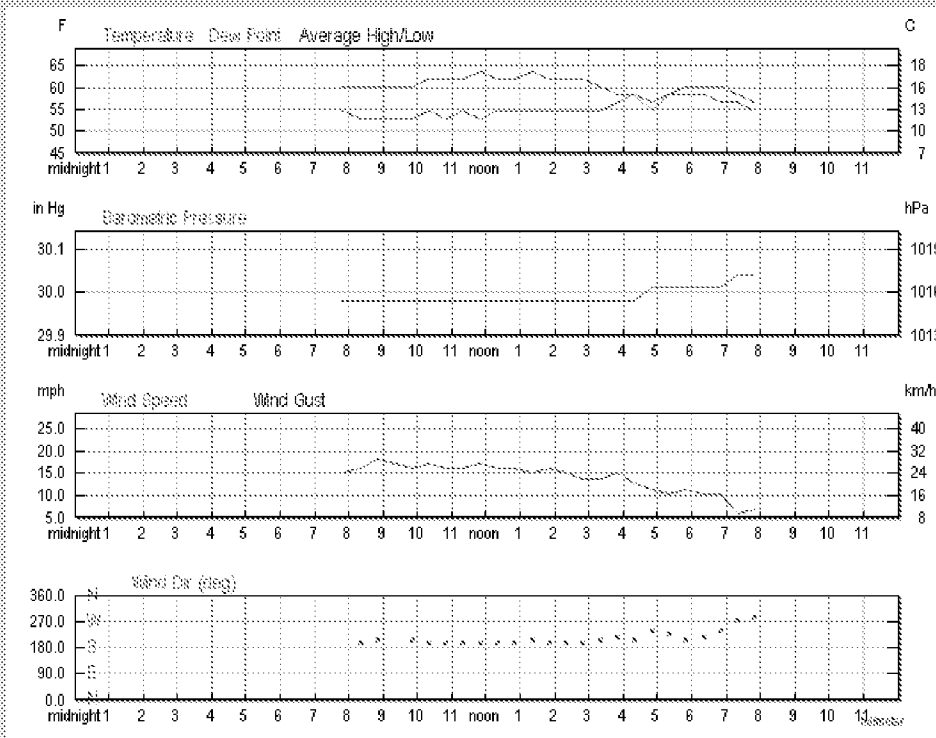
| NOISE LEVEL SUMMARY ASSESSMENT                                                                               |                  | Octave Band Centre Frequency (Hz) |      |      |      |      |      |      |      |      |      |       |
|--------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|-------|
| Date / Time                                                                                                  | L <sub>Aeq</sub> | L <sub>Amax</sub>                 | 31.5 | 63   | 125  | 250  | 500  | 1.0k | 2.0k | 4.0k | 8.0k | 16.0k |
| DAYTIME 07:00 - 23:00<br><small>L<sub>Aeq</sub> 18 HOUR &amp; Corresponding L<sub>Amax</sub> 18 HOUR</small> | 33.2             | 52.2                              | 53.8 | 52.2 | 39.5 | 34.5 | 29.1 | 26.1 | 23.7 | 20.5 | 11.0 | 10.8  |
| NIGHTTIME 23:00 - 07:00<br><small>L<sub>Aeq</sub> 8 HOUR &amp; Corresponding L<sub>Amax</sub> 8 HOUR</small> | 21.0             | 40.7                              | 38.8 | 39.7 | 26.2 | 22.2 | 10.9 | 14.1 | 11.7 | 11.3 | 10.8 | 10.8  |

| DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES |                  | Octave Band Centre Frequency (Hz) |      |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------|------------------|-----------------------------------|------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                       | L <sub>Aeq</sub> | L <sub>Amax</sub>                 | 31.5 | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 07:00 - 08:00                                     | 29.8             | 41.0                              | 49.6 | 49.5 | 34.7 | 31.1 | 20.7 | 24.5  | 21.6  | 14.5  | 10.8  | 10.8   |
| 08:00 - 09:00                                     | 36.8             | 56.4                              | 56.6 | 55.6 | 44.6 | 39.5 | 31.2 | 29.6  | 25.8  | 23.8  | 11.3  | 10.8   |
| 09:00 - 10:00                                     | 36.5             | 54.8                              | 56.4 | 55.0 | 44.2 | 38.7 | 29.4 | 30.8  | 25.8  | 20.8  | 11.0  | 10.8   |
| 10:00 - 11:00                                     | 30.9             | 50.1                              | 56.0 | 52.5 | 37.9 | 33.1 | 23.0 | 22.6  | 21.2  | 16.9  | 11.0  | 10.8   |
| 11:00 - 12:00                                     | 36.9             | 56.5                              | 59.9 | 57.7 | 45.0 | 38.2 | 29.5 | 29.6  | 27.0  | 22.7  | 11.1  | 10.8   |
| 12:00 - 13:00                                     | 30.9             | 48.7                              | 55.3 | 51.1 | 37.9 | 32.5 | 22.5 | 23.6  | 21.9  | 16.1  | 11.0  | 10.8   |
| 13:00 - 14:00                                     | 29.5             | 51.0                              | 52.2 | 49.5 | 35.6 | 31.5 | 21.1 | 22.4  | 20.7  | 16.7  | 10.9  | 10.8   |
| 14:00 - 15:00                                     | 39.6             | 59.0                              | 52.8 | 53.2 | 40.9 | 38.8 | 39.4 | 31.7  | 31.4  | 28.6  | 12.0  | 10.9   |
| 15:00 - 16:00                                     | 33.5             | 52.5                              | 55.6 | 55.6 | 41.0 | 33.8 | 23.6 | 25.4  | 22.5  | 21.6  | 11.0  | 10.8   |
| 16:00 - 17:00                                     | 29.6             | 49.5                              | 52.1 | 51.2 | 36.4 | 33.4 | 19.7 | 21.8  | 18.6  | 13.6  | 10.8  | 10.8   |
| 17:00 - 18:00                                     | 27.5             | 39.2                              | 49.1 | 48.5 | 33.1 | 29.2 | 18.8 | 21.6  | 17.2  | 13.2  | 10.8  | 10.8   |
| 18:00 - 19:00                                     | 27.1             | 41.1                              | 47.4 | 47.1 | 32.9 | 29.2 | 17.7 | 21.1  | 17.6  | 14.1  | 10.8  | 10.8   |
| 19:00 - 20:00                                     | 26.4             | 41.1                              | 46.9 | 46.6 | 31.7 | 27.7 | 16.9 | 20.1  | 17.6  | 15.2  | 10.9  | 10.8   |
| 20:00 - 21:00                                     | 25.3             | 46.4                              | 44.3 | 43.6 | 29.0 | 25.0 | 15.2 | 19.9  | 17.8  | 14.3  | 10.8  | 10.8   |
| 21:00 - 22:00                                     | 23.9             | 39.0                              | 43.3 | 43.4 | 29.3 | 24.6 | 14.2 | 17.9  | 15.2  | 12.7  | 10.8  | 10.8   |
| 22:00 - 23:00                                     | 22.6             | 36.7                              | 41.1 | 41.6 | 27.6 | 23.7 | 13.0 | 16.3  | 13.8  | 11.8  | 10.8  | 10.8   |

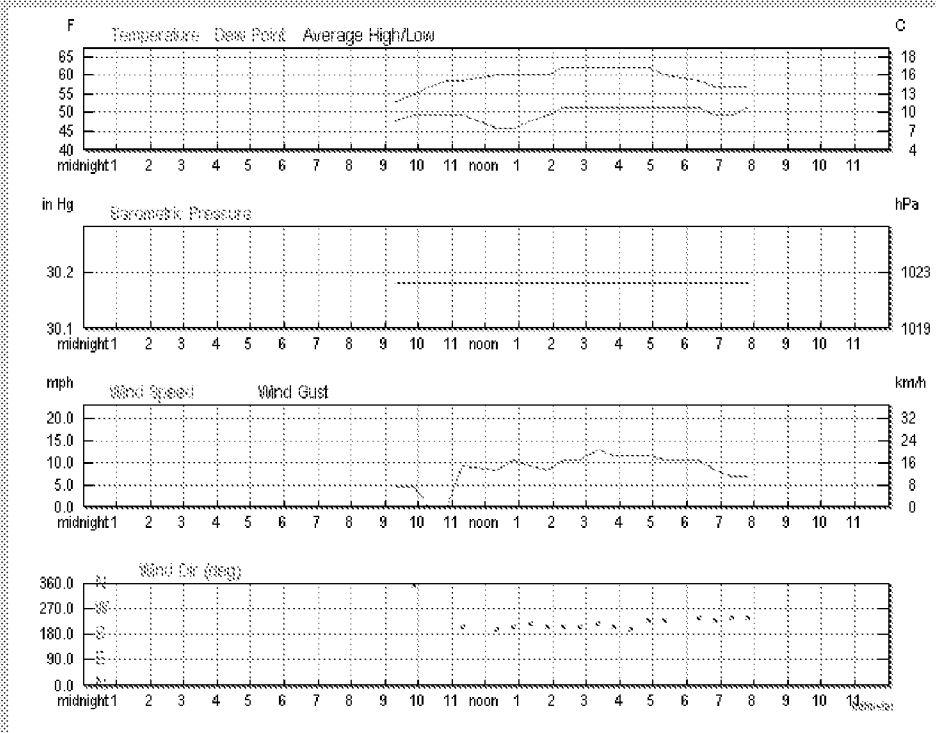
| NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES |                  | Octave Band Centre Frequency (Hz) |      |      |      |      |      |       |       |       |       |        |
|---------------------------------------------------------|------------------|-----------------------------------|------|------|------|------|------|-------|-------|-------|-------|--------|
| Date / Time                                             | L <sub>Aeq</sub> | L <sub>Amax</sub>                 | 31.5 | 63   | 125  | 250  | 500  | 1.0 k | 2.0 k | 4.0 k | 8.0 k | 16.0 k |
| 23:00 - 23:15                                           | 21.1             | 41.2                              | 38.1 | 40.0 | 26.6 | 20.9 | 10.2 | 14.2  | 12.4  | 11.4  | 10.8  | 10.8   |
| 23:15 - 23:30                                           | 22.0             | 41.1                              | 38.4 | 39.4 | 29.5 | 22.8 | 12.2 | 14.8  | 12.7  | 11.5  | 10.8  | 10.8   |
| 23:30 - 23:45                                           | 19.5             | 31.4                              | 36.3 | 36.3 | 23.0 | 18.4 | 8.9  | 12.8  | 11.4  | 11.2  | 10.8  | 10.8   |
| 23:45 - 00:00                                           | 19.2             | 30.1                              | 38.1 | 37.3 | 20.3 | 17.0 | 8.2  | 12.5  | 11.3  | 11.2  | 10.8  | 10.8   |
| 00:00 - 00:15                                           | 20.0             | 40.6                              | 36.1 | 36.1 | 25.9 | 23.2 | 8.0  | 12.0  | 10.4  | 11.1  | 10.8  | 10.8   |
| 00:15 - 00:30                                           | 19.3             | 36.2                              | 40.8 | 35.6 | 22.8 | 20.7 | 8.6  | 11.6  | 10.6  | 11.1  | 10.8  | 10.8   |
| 00:30 - 00:45                                           | 19.3             | 42.3                              | 31.4 | 40.9 | 22.4 | 19.4 | 6.3  | 9.6   | 9.4   | 10.9  | 10.8  | 10.8   |
| 00:45 - 01:00                                           | 17.5             | 30.9                              | 31.1 | 31.3 | 18.5 | 15.2 | 5.8  | 8.7   | 9.2   | 10.9  | 10.8  | 10.8   |
| 01:00 - 01:15                                           | 17.8             | 35.6                              | 31.3 | 32.4 | 19.7 | 15.8 | 6.8  | 9.6   | 9.7   | 11.0  | 10.8  | 10.8   |
| 01:15 - 01:30                                           | 17.3             | 30.6                              | 29.2 | 32.2 | 15.8 | 13.6 | 5.6  | 9.4   | 8.9   | 10.9  | 10.8  | 10.8   |
| 01:30 - 01:45                                           | 17.5             | 30.3                              | 32.1 | 34.9 | 18.8 | 16.6 | 6.3  | 8.6   | 8.4   | 10.8  | 10.8  | 10.8   |
| 01:45 - 02:00                                           | 16.9             | 27.7                              | 31.3 | 30.9 | 15.0 | 12.1 | 4.7  | 7.9   | 8.4   | 10.8  | 10.8  | 10.8   |
| 02:00 - 02:15                                           | 17.3             | 29.1                              | 36.0 | 37.1 | 16.7 | 12.1 | 4.8  | 7.9   | 8.7   | 10.8  | 10.8  | 10.8   |
| 02:15 - 02:30                                           | 16.7             | 27.1                              | 29.5 | 28.3 | 15.2 | 12.0 | 4.7  | 7.7   | 8.1   | 10.8  | 10.8  | 10.8   |
| 02:30 - 02:45                                           | 19.1             | 48.2                              | 35.0 | 33.9 | 18.5 | 16.3 | 8.5  | 10.7  | 11.5  | 12.8  | 10.9  | 10.8   |
| 02:45 - 03:00                                           | 16.6             | 26.7                              | 30.7 | 30.1 | 14.1 | 12.0 | 4.3  | 6.9   | 8.1   | 10.8  | 10.8  | 10.8   |
| 03:00 - 03:15                                           | 16.7             | 26.6                              | 31.5 | 28.1 | 15.0 | 11.6 | 4.8  | 7.9   | 8.3   | 10.8  | 10.8  | 10.8   |
| 03:15 - 03:30                                           | 16.8             | 29.1                              | 32.9 | 32.3 | 15.6 | 12.6 | 4.4  | 7.4   | 8.2   | 10.8  | 10.8  | 10.8   |
| 03:30 - 03:45                                           | 19.0             | 40.4                              | 40.5 | 39.5 | 24.4 | 15.6 | 7.7  | 9.8   | 9.4   | 10.9  | 10.8  | 10.8   |
| 03:45 - 04:00                                           | 17.7             | 37.2                              | 32.8 | 31.0 | 18.1 | 14.9 | 6.5  | 10.1  | 9.6   | 10.9  | 10.8  | 10.8   |
| 04:00 - 04:15                                           | 17.3             | 33.3                              | 35.6 | 34.8 | 17.6 | 14.5 | 5.7  | 7.9   | 8.4   | 10.8  | 10.8  | 10.8   |
| 04:15 - 04:30                                           | 17.7             | 38.4                              | 33.8 | 31.0 | 16.9 | 14.0 | 6.8  | 10.1  | 9.6   | 11.1  | 10.8  | 10.8   |
| 04:30 - 04:45                                           | 18.9             | 32.0                              | 37.1 | 36.6 | 21.4 | 18.4 | 8.4  | 11.5  | 10.3  | 11.0  | 10.8  | 10.8   |
| 04:45 - 05:00                                           | 18.6             | 42.5                              | 36.1 | 34.8 | 20.5 | 17.9 | 8.7  | 11.2  | 10.3  | 11.0  | 10.8  | 10.8   |
| 05:00 - 05:15                                           | 18.6             | 32.5                              | 34.8 | 35.1 | 19.5 | 17.2 | 8.2  | 11.8  | 10.0  | 10.9  | 10.8  | 10.8   |
| 05:15 - 05:30                                           | 20.8             | 37.6                              | 39.6 | 37.5 | 26.0 | 21.4 | 10.9 | 14.5  | 11.8  | 11.2  | 10.8  | 10.8   |
| 05:30 - 05:45                                           | 25.5             | 50.8                              | 39.3 | 46.7 | 32.7 | 29.6 | 15.7 | 16.2  | 13.4  | 11.6  | 10.8  | 10.8   |
| 05:45 - 06:00                                           | 22.5             | 38.7                              | 42.1 | 41.1 | 26.7 | 24.3 | 12.8 | 16.6  | 13.7  | 11.6  | 10.8  | 10.8   |
| 06:00 - 06:15                                           | 22.8             | 33.7                              | 43.6 | 40.8 | 25.9 | 23.6 | 13.9 | 17.6  | 14.0  | 11.6  | 10.8  | 10.8   |
| 06:15 - 06:30                                           | 24.3             | 33.3                              | 42.8 | 42.8 | 29.2 | 25.7 | 15.6 | 19.2  | 15.2  | 11.9  | 10.8  | 10.8   |
| 06:30 - 06:45                                           | 26.2             | 40.4                              | 45.3 | 44.6 | 32.0 | 28.4 | 17.1 | 20.9  | 16.7  | 12.4  | 10.8  | 10.8   |
| 06:45 - 07:00                                           | 28.4             | 46.1                              | 46.2 | 49.0 | 36.0 | 31.1 | 18.6 | 22.0  | 17.9  | 13.0  | 10.8  | 10.8   |



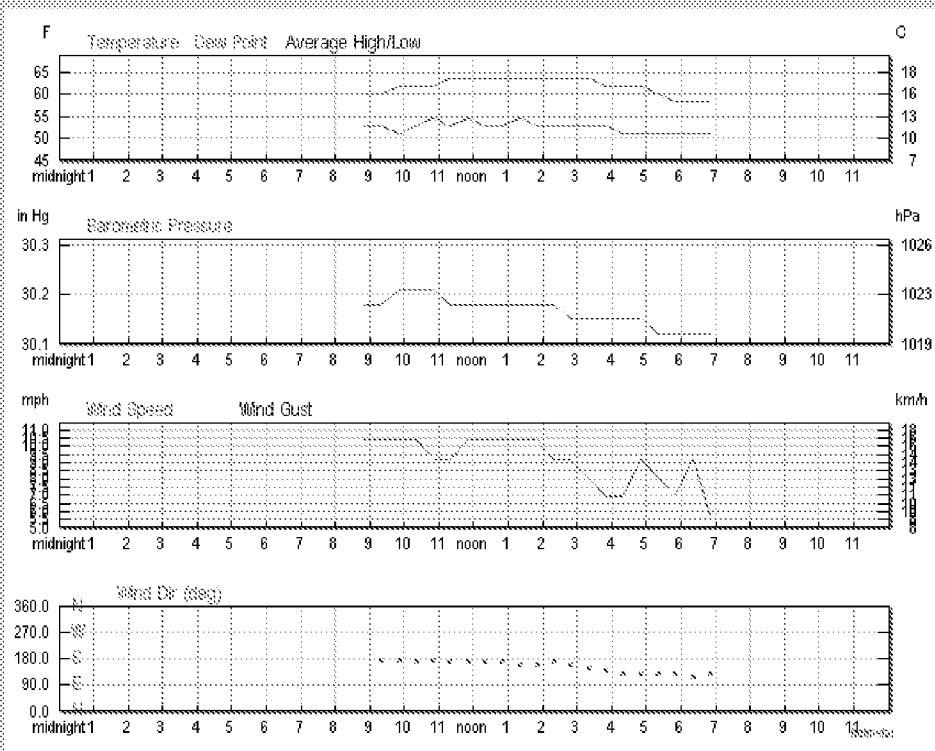
## 5 ENVIRONMENTAL CONDITIONS



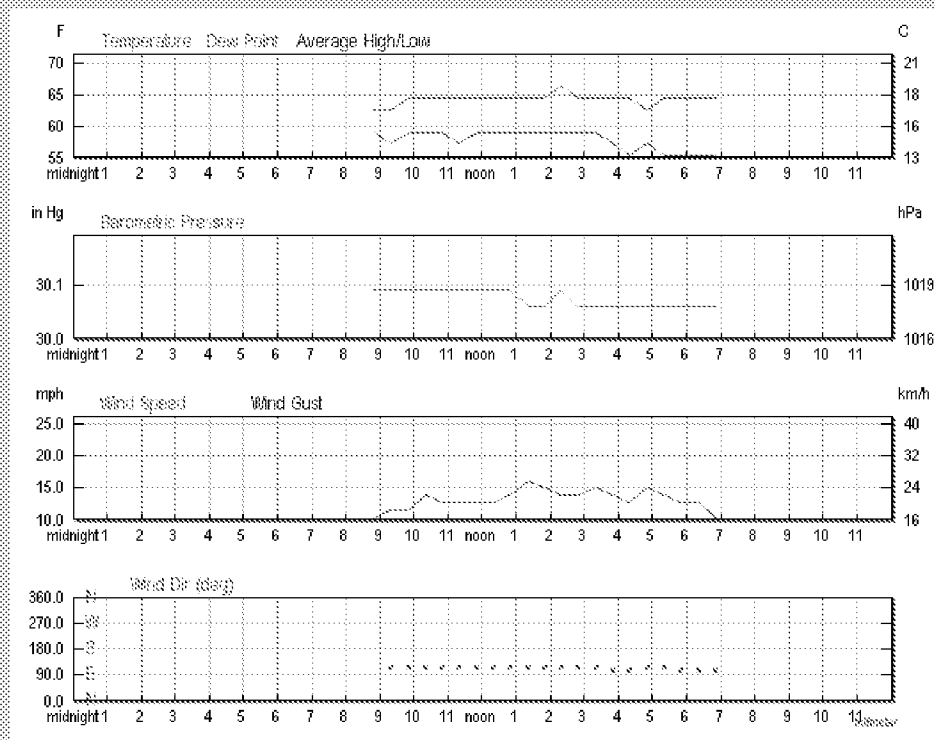
30<sup>th</sup> September 2017



1<sup>st</sup> October 2017



2<sup>nd</sup> October 2017



3<sup>rd</sup> October 2017

#END OF REPORT#