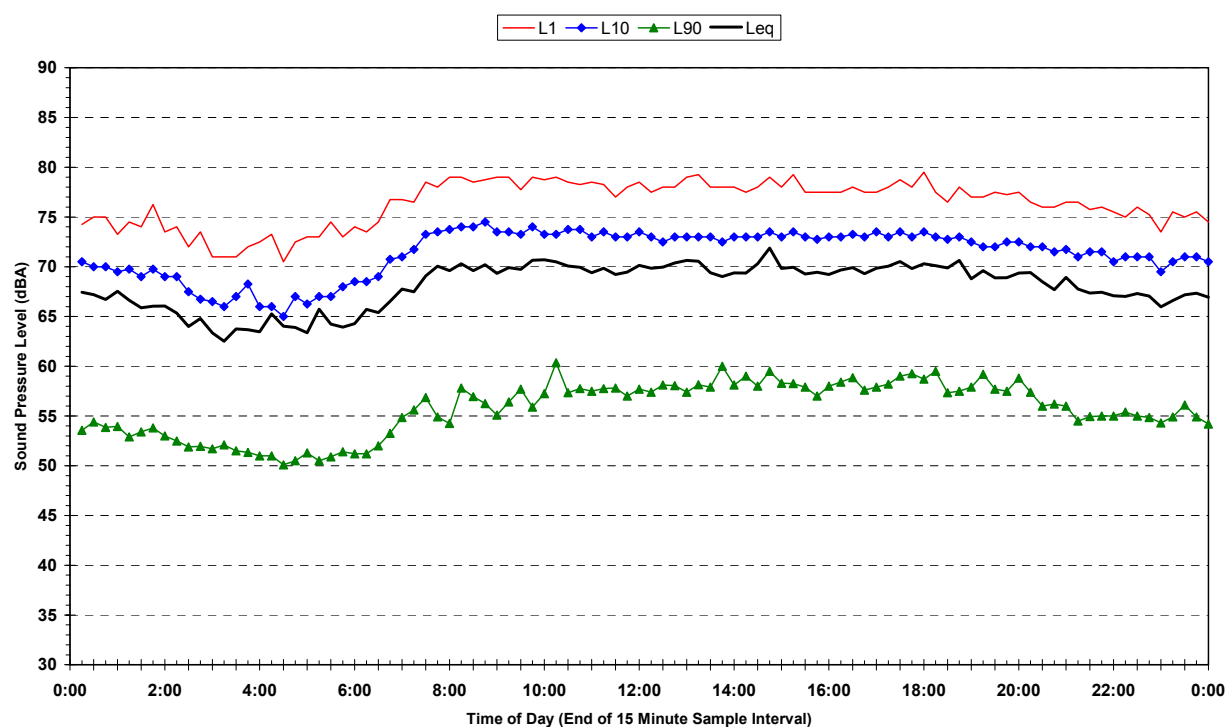
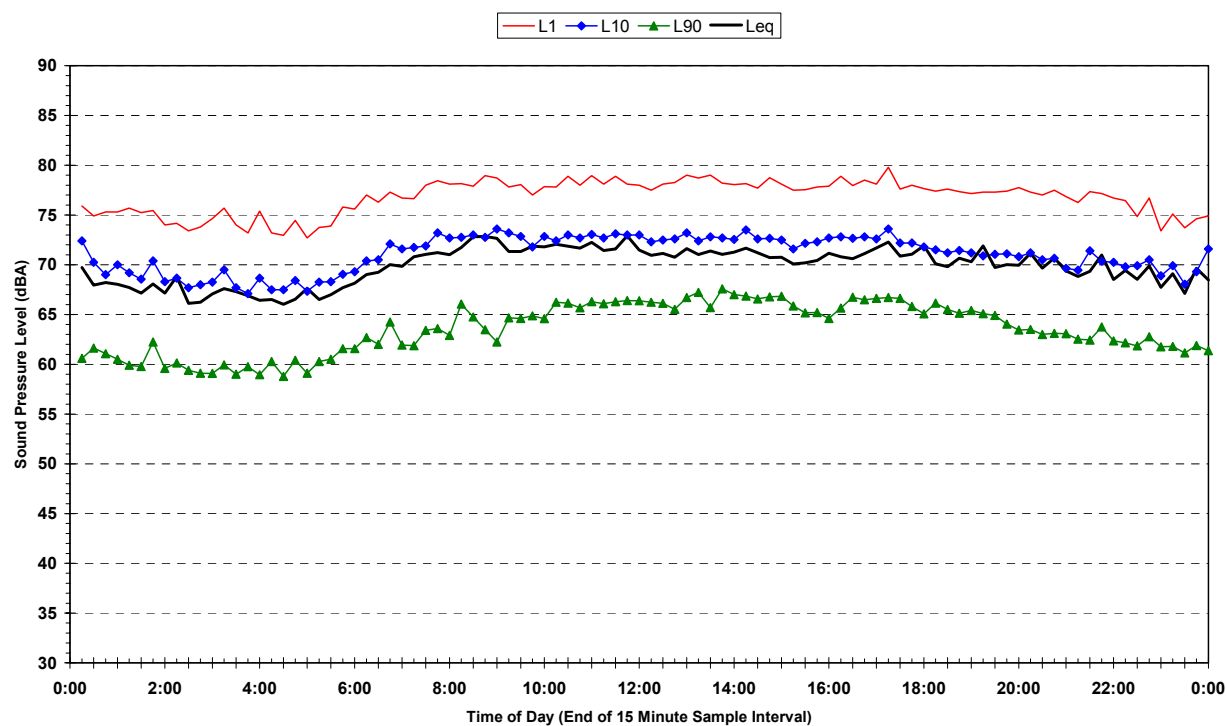


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B01 - 812 George Street, Central - Long-Term Statistical Noise Levels**  
Thursday 16 April 2009 to Tuesday 28 April 2009

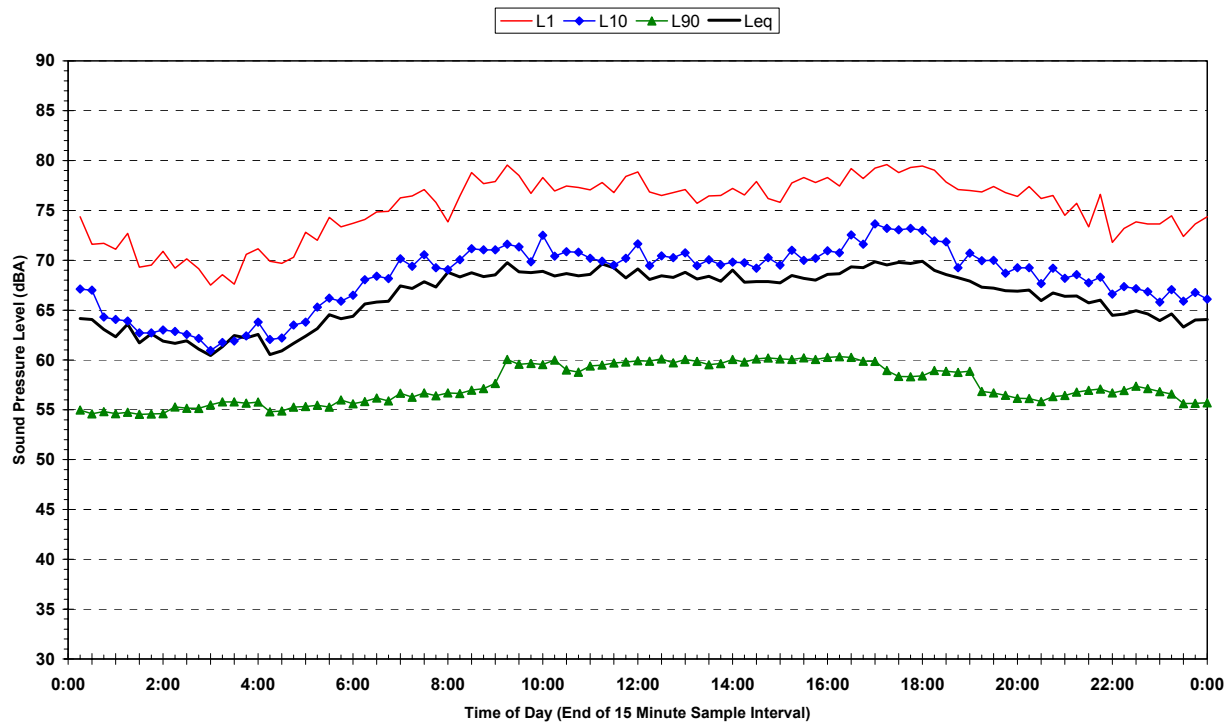


**B02 - 260 Pitt Street, Town Hall - Long-Term Statistical Noise Levels**  
Wednesday 15 April 2009 to Wednesday 29 April 2009

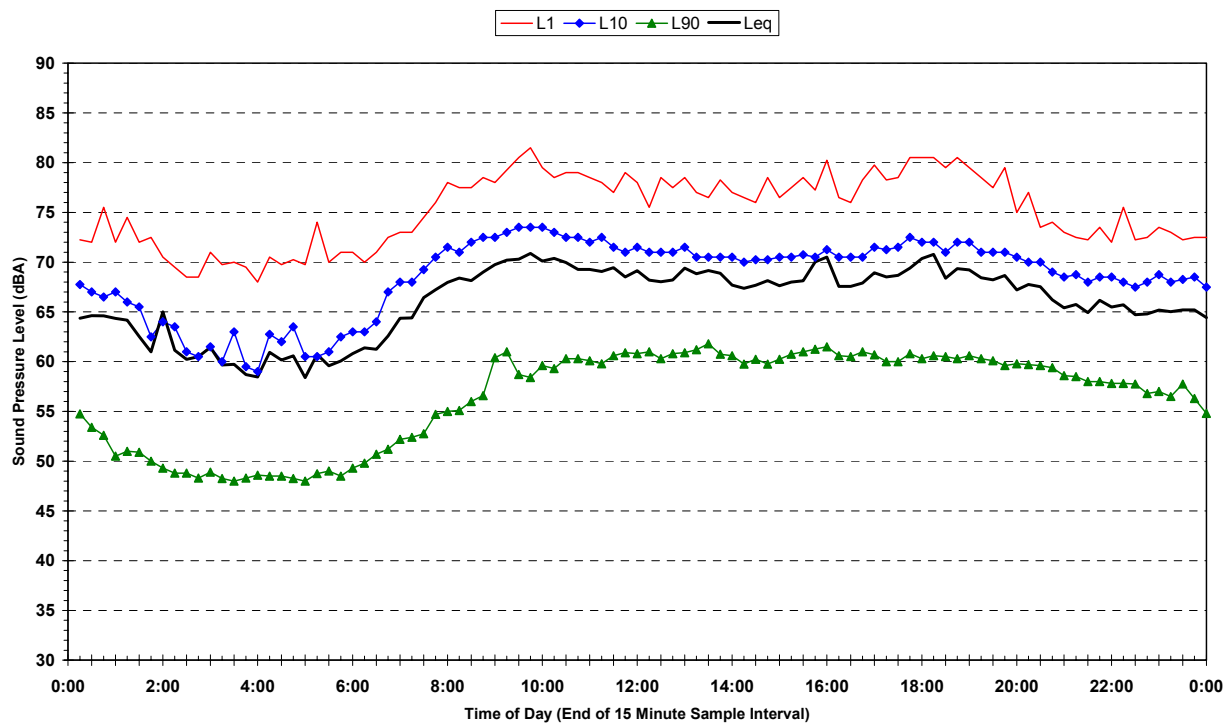


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B03 - 60 Castlereagh Street, Martin Place - Long-Term Statistical Noise Levels**  
Monday 1 June 2009 to Tuesday 9 June 2009

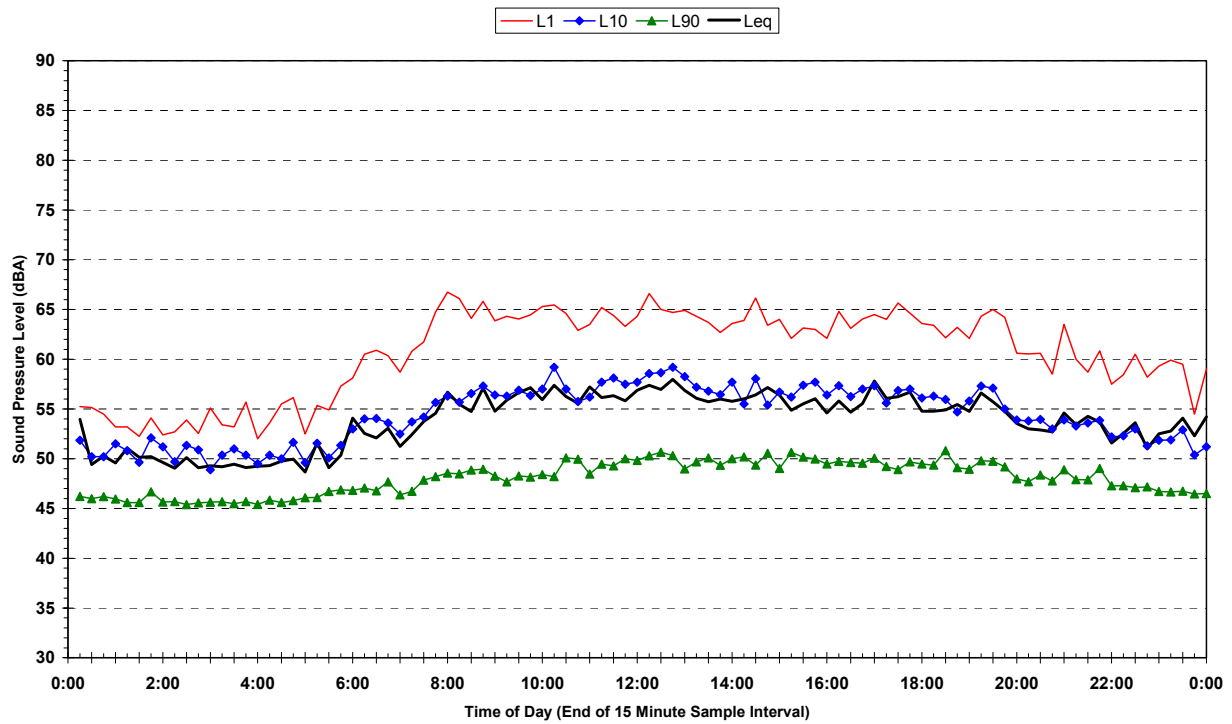


**B04 - 20 Sussex Street, Wynyard - Long-Term Statistical Noise Levels**  
Thursday 7 May 2009 to Thursday 14 May 2009

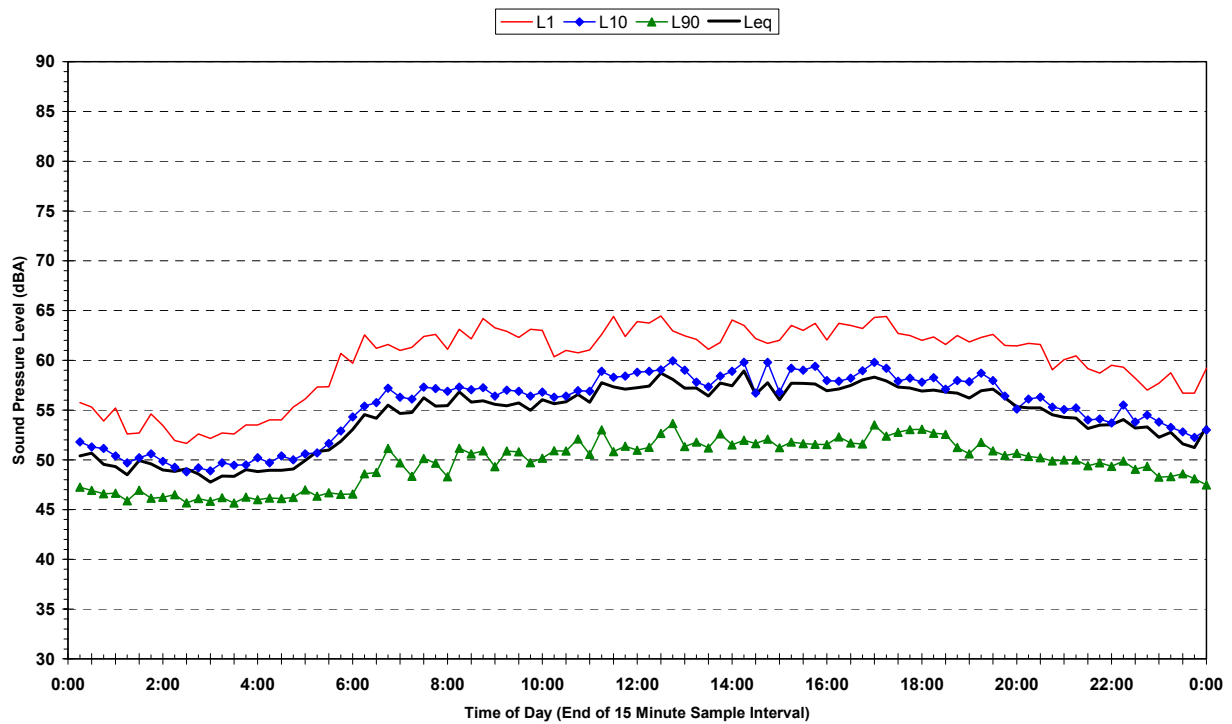


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B05 - 1 Union Street, Pyrmont - Long-Term Statistical Noise Levels**  
Thursday 23 April 2009 to Wednesday 6 May 2009

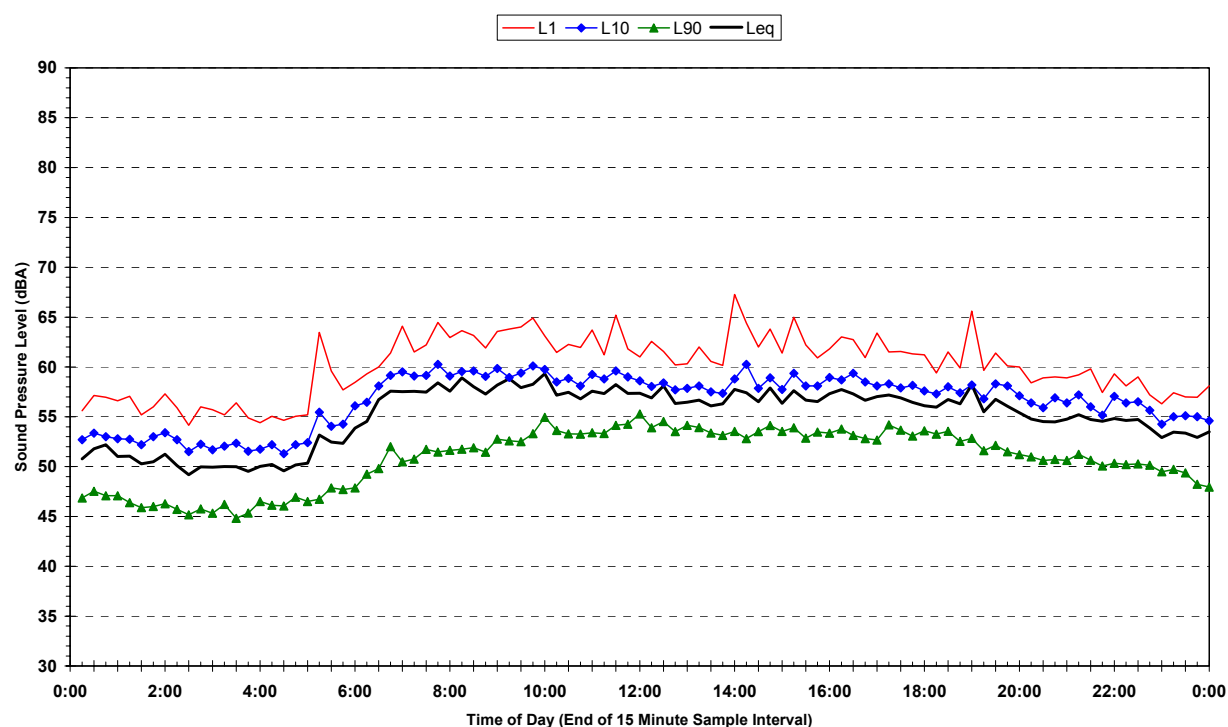


**B06 - 56 Mount Street, Pyrmont - Long-Term Statistical Noise Levels**  
Wednesday 22 April 2009 to Monday 4 May 2009

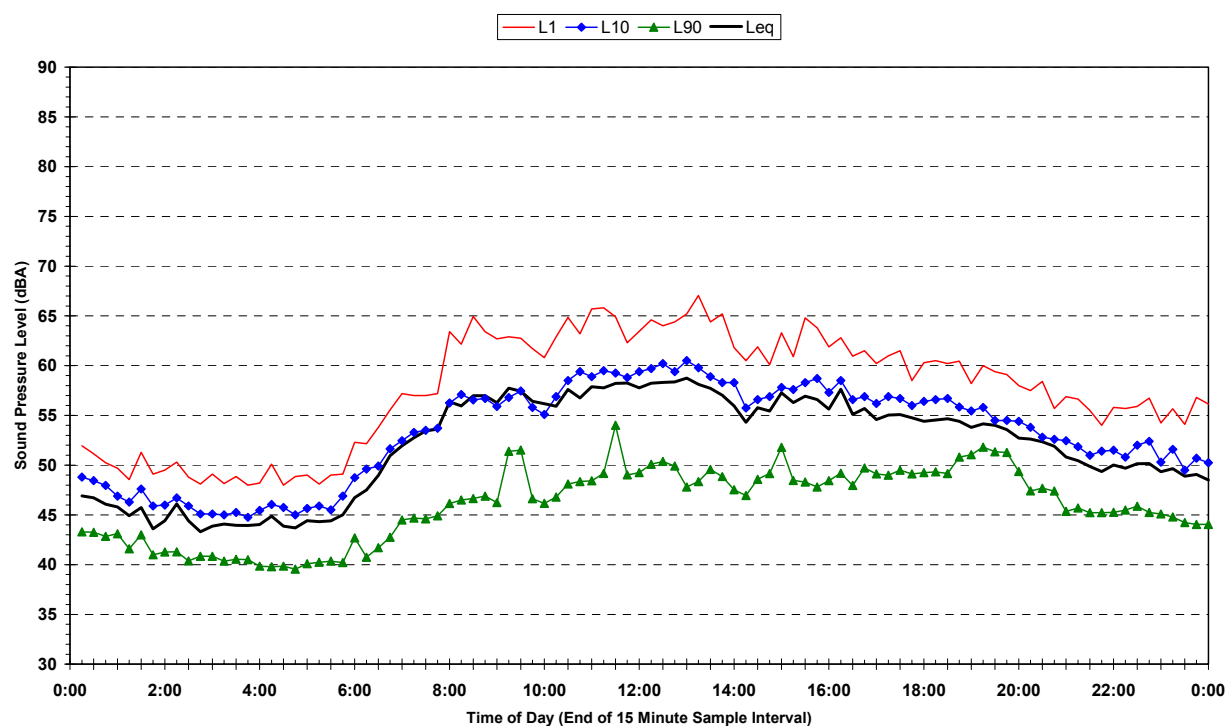


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B07 - 32/501 Glebe Point Road, Glebe - Long-Term Statistical Noise Levels**  
Tuesday 19 May 2009 to Wednesday 27 May 2009

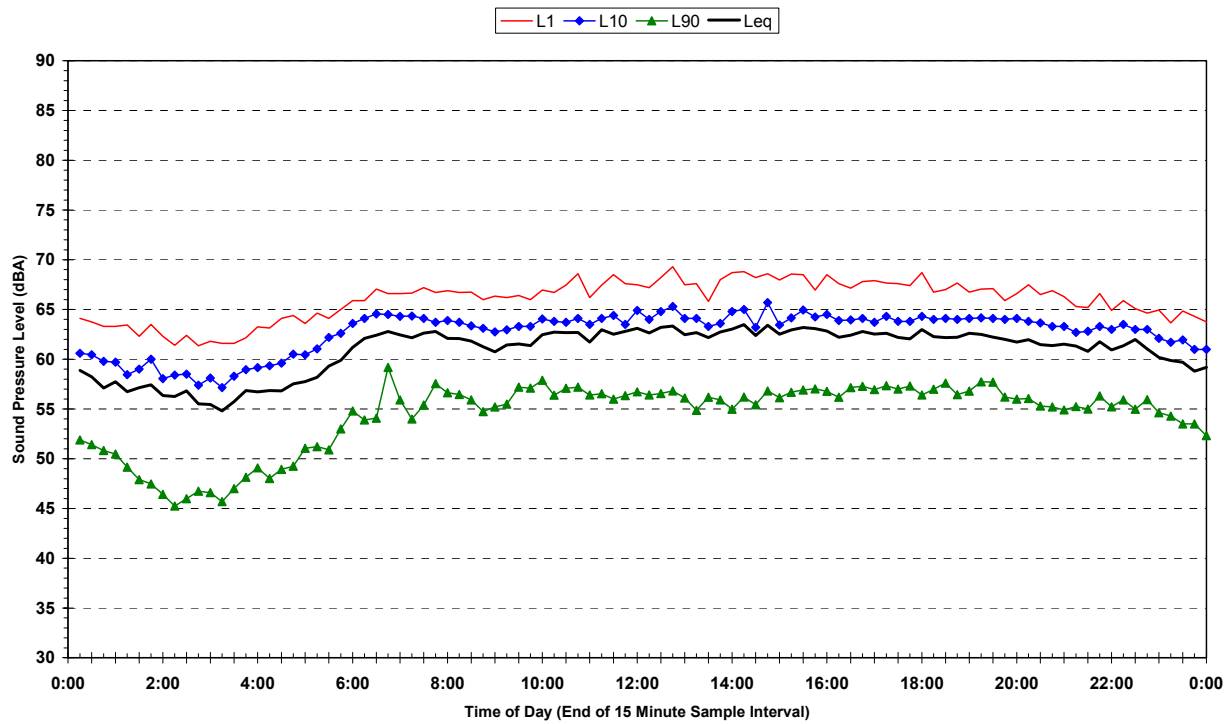


**B08 - 27/1 Batty Street, Rozelle - Long-Term Statistical Noise Levels**  
Friday 3 April 2009 to Monday 13 April 2009

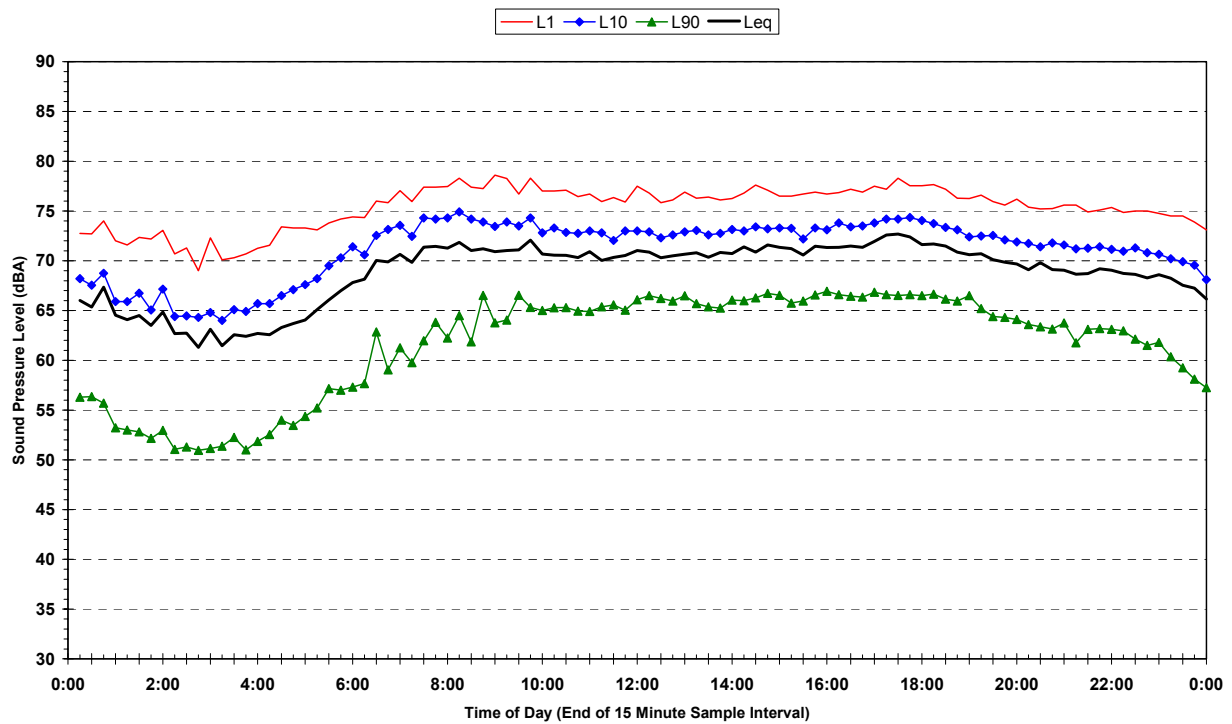


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B09 - 36 Lilyfield, Rozelle - Long-Term Statistical Noise Levels**  
Tuesday 21 April 2009 to Wednesday 6 May 2009

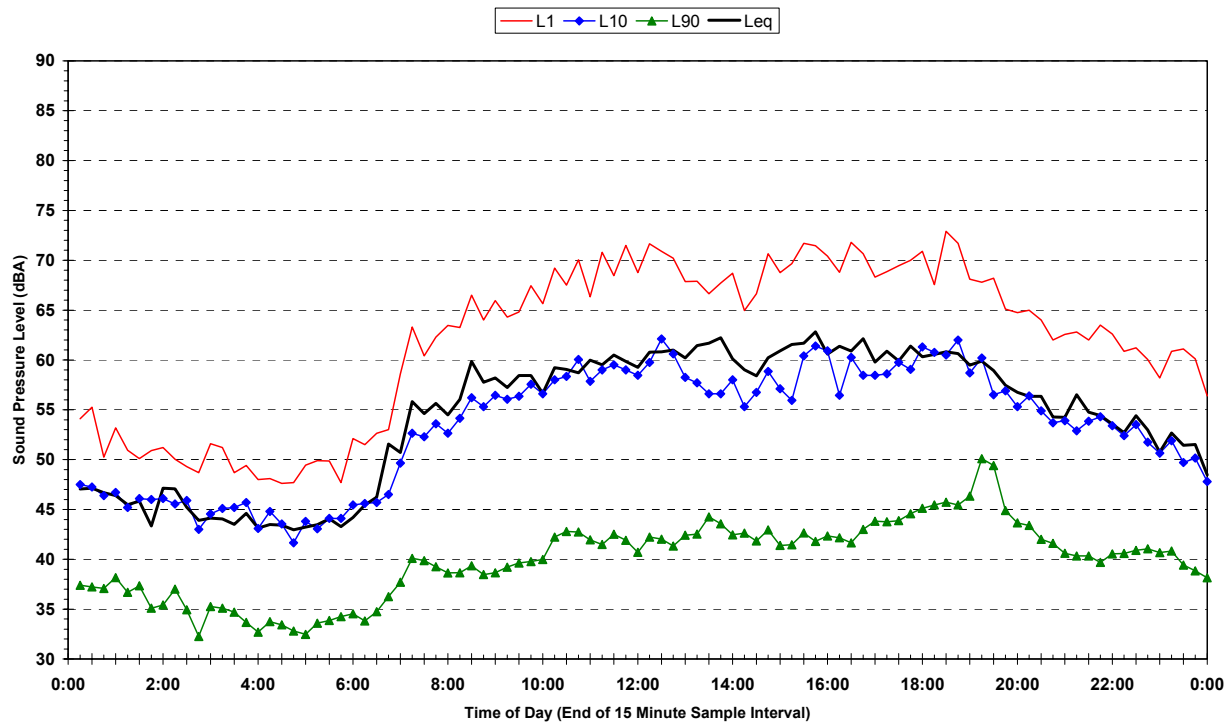


**B10 - 43/3 Hornsey Street, Rozelle - Long-Term Statistical Noise Levels**  
Tuesday 24 March 2009 to Tuesday 31 March 2009

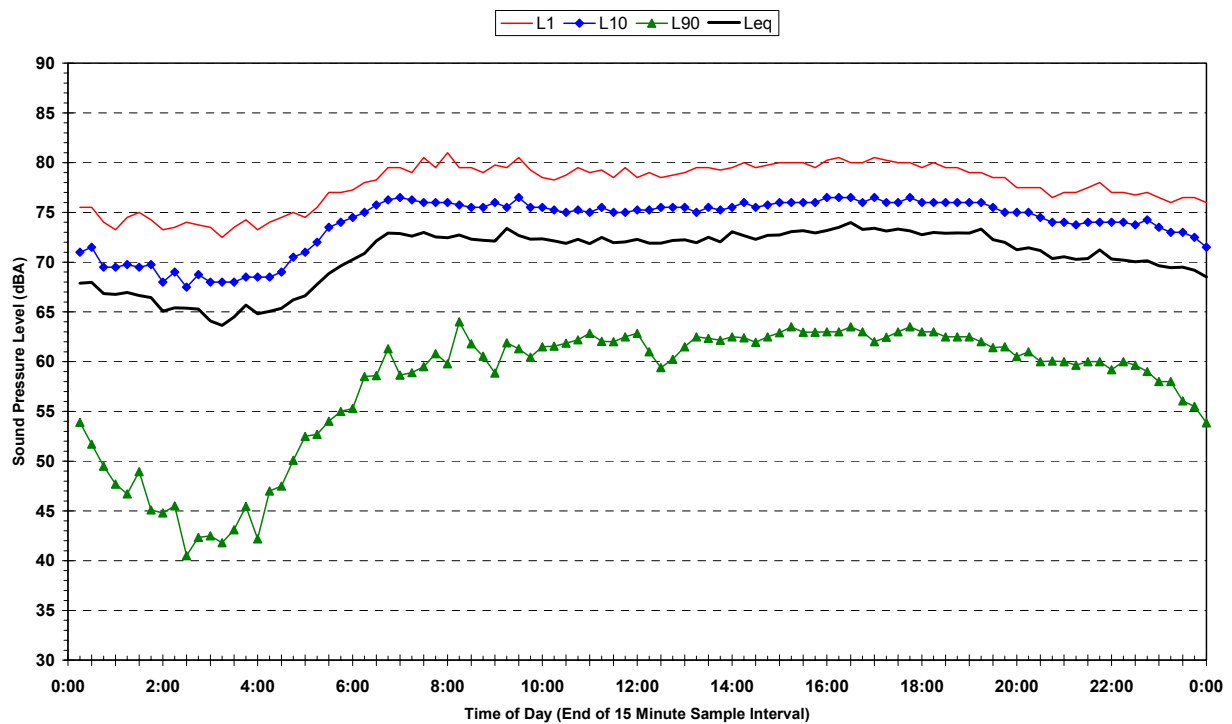


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B11 - 38 Burt Street, Rozelle - Long-Term Statistical Noise Levels**  
Friday 3 April 2009 to Friday 17 April 2009

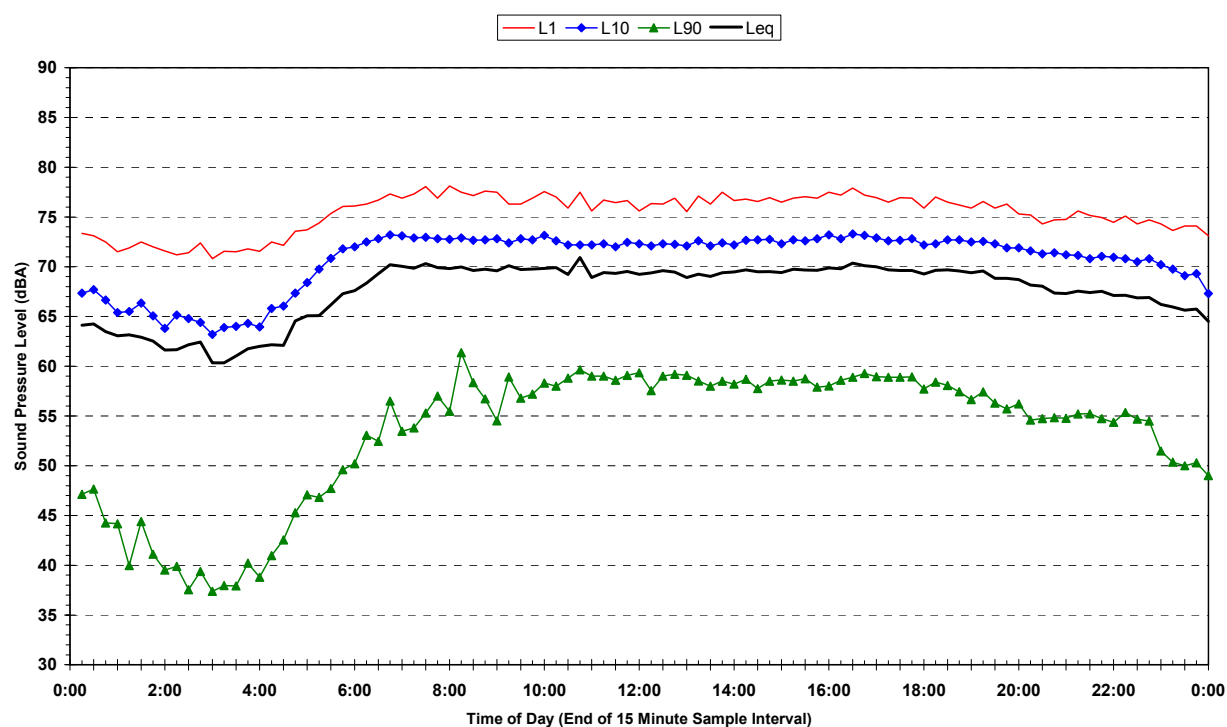


**B12 - 118 Victoria Road, Rozelle - Long-Term Statistical Noise Levels**  
Wednesday 15 April 2009 to Wednesday 29 April 2009

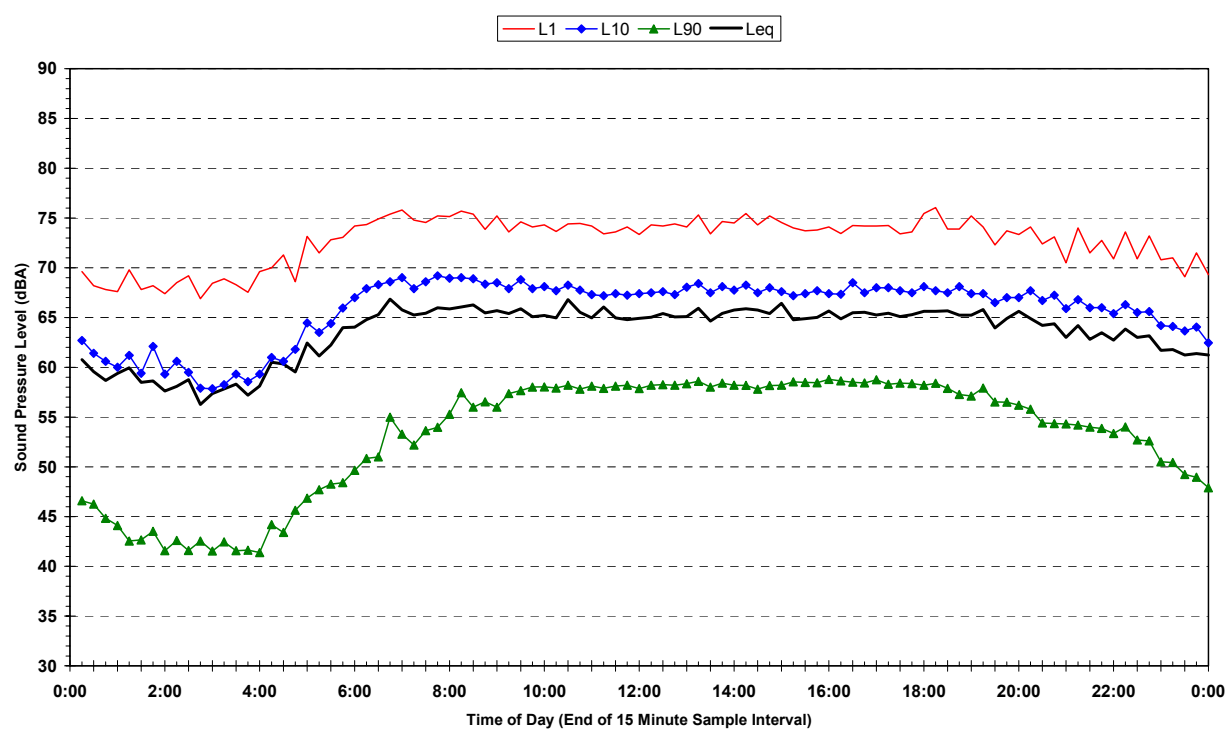


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B13 - 99 Victoria Road, Rozelle - Long-Term Statistical Noise Levels**  
Tuesday 14 April 2009 to Wednesday 29 April 2009

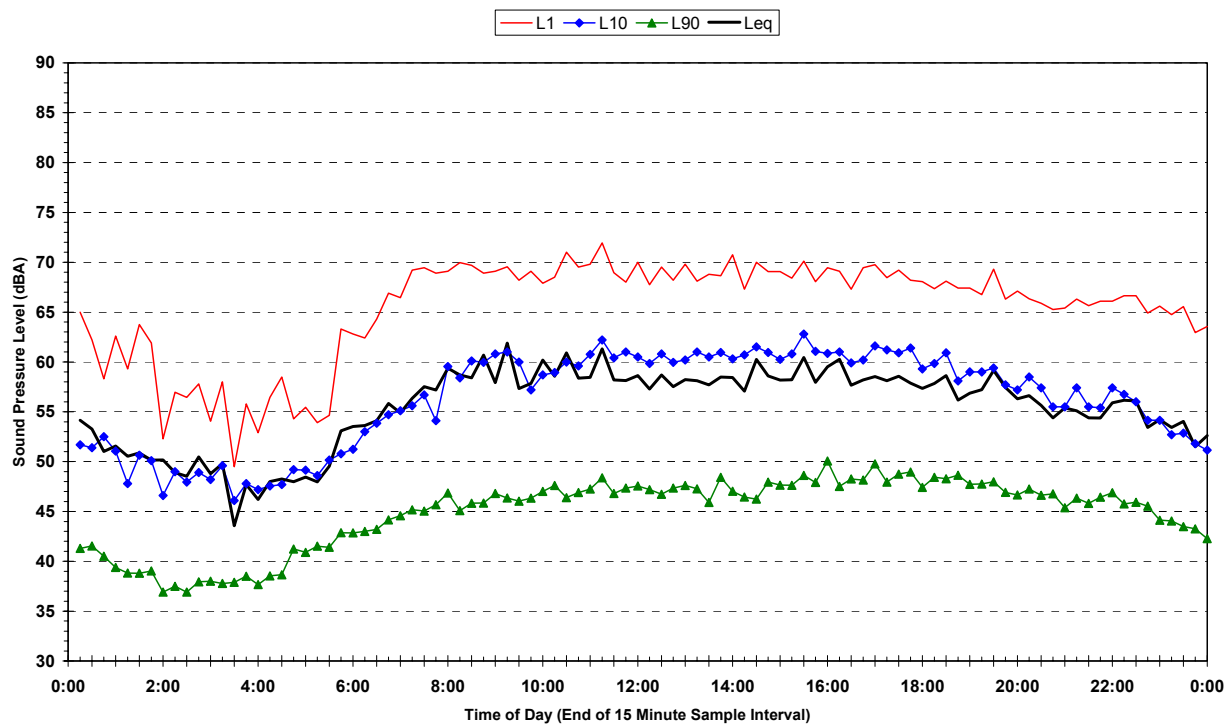


**B14 - 665a Darling Street, Rozelle - Long-Term Statistical Noise Levels**  
Tuesday 14 April 2009 to Monday 4 May 2009

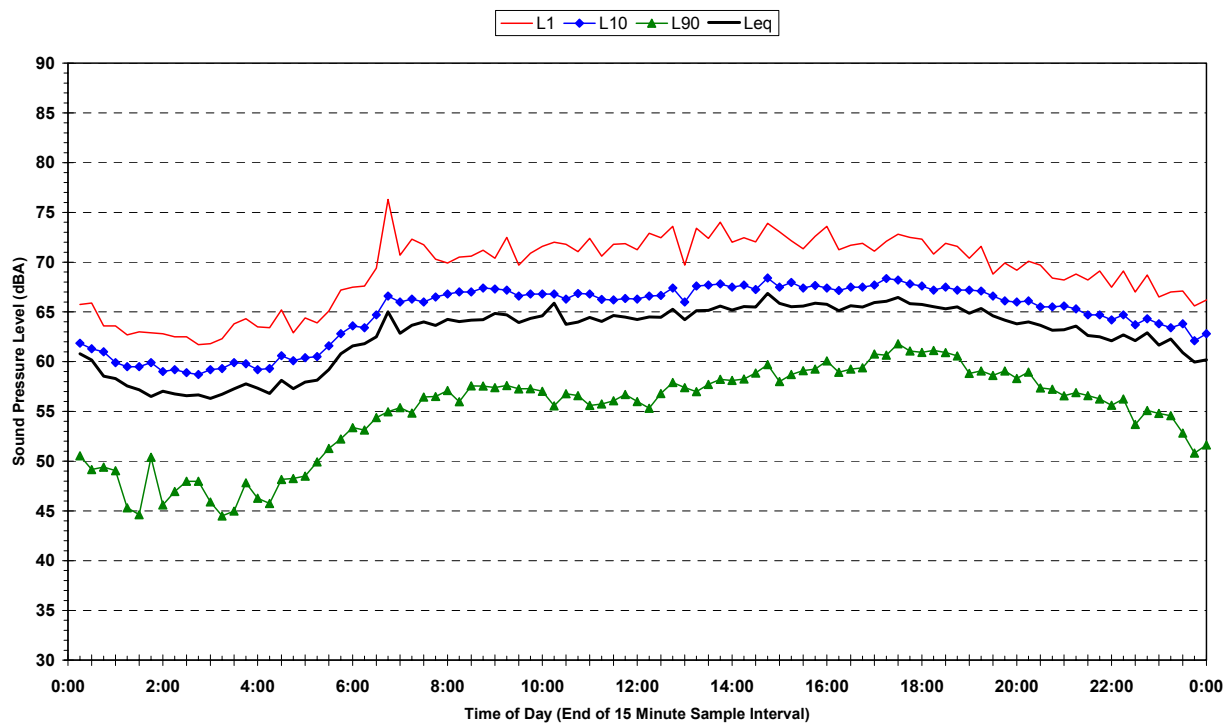


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B15 - 26 Waterloo Street, Rozelle - Long-Term Statistical Noise Levels**  
Monday 1 June 2009 to Tuesday 9 June 2009



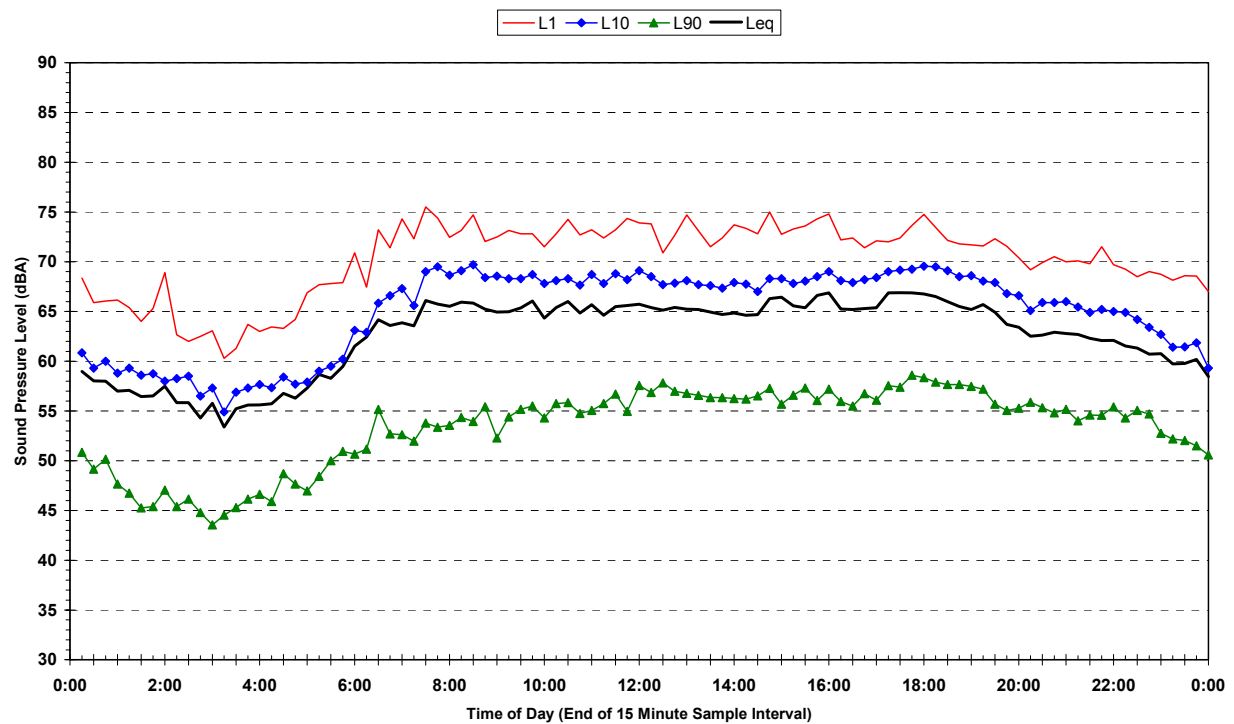
**B16 - 2 Hutcheson Street, Rozelle - Long-Term Statistical Noise Levels**  
Friday 8 May 2009 to Friday 15 May 2009



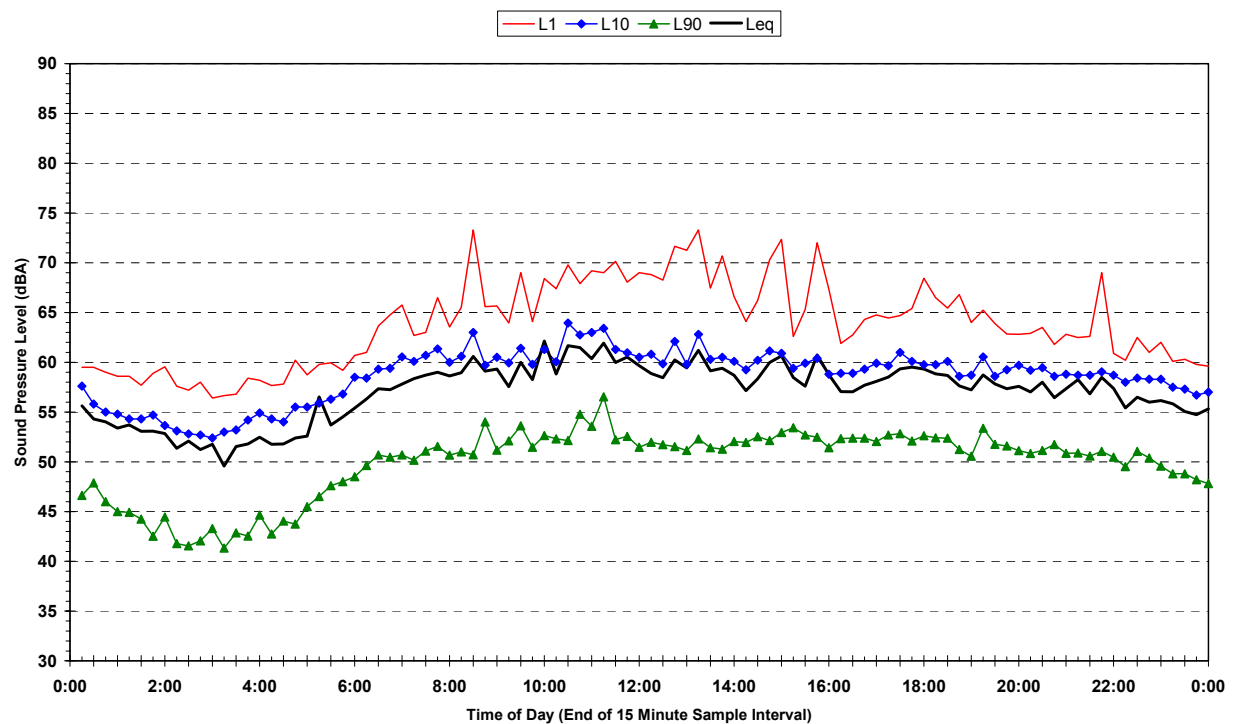


## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B17 - 101 Lamb Street, Lilyfield - Long-Term Statistical Noise Levels**  
Tuesday 24 March 2009 to Wednesday 1 April 2009

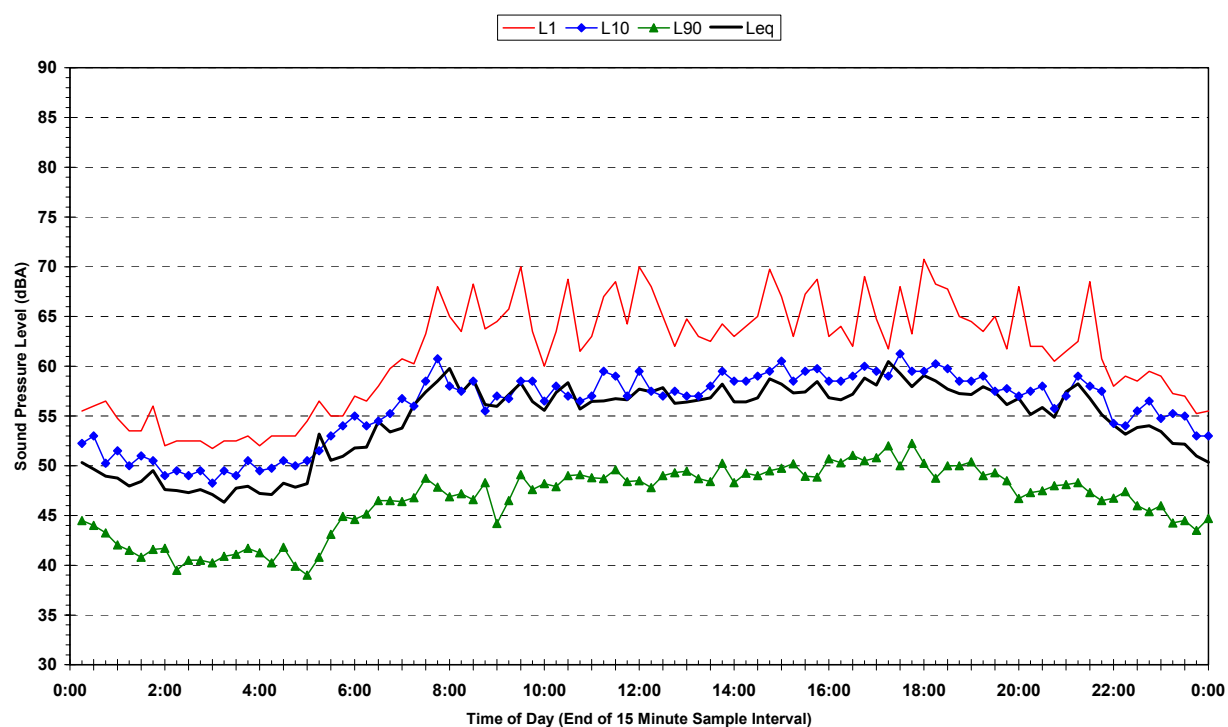


**B18 - 8 Pritchard Street, Annandale - Long-Term Statistical Noise Levels**  
Tuesday 24 March 2009 to Wednesday 1 April 2009



## Unattended Ambient Noise Logger Graphs - 24 Hour Average Plots

**B19 - 52 Starling Street, Lilyfield - Long-Term Statistical Noise Levels**  
**Tuesday 24 March 2009 to Wednesday 1 April 2009**



## Appendix D

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### Attended Noise Measurement Survey Information

| Location                              | Date     | Time of Day | Noise Levels (dBA) |      |      |      |      | Description of Noise Emission and Typical Maximum Noise Levels (L <sub>Amax</sub> )                                                                                                      |
|---------------------------------------|----------|-------------|--------------------|------|------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       |          |             | LA1                | LA10 | LA50 | LA90 | LAeq |                                                                                                                                                                                          |
| N01 – 509 Pitt Street                 | 15/05/09 | 13:17       | 82                 | 76   | 70   | 63   | 73   | Traffic 73-89 dBA, people 69-71 dBA.                                                                                                                                                     |
| N02 – 264 Pitt Street                 | 15/05/09 | 13:55       | 76                 | 70   | 66   | 64   | 68   | Traffic 67-86 dBA, emergency vehicle 64-70 dBA, people 69-73 dBA, warning alarm 66 dBA, trees rustling 64-66 dBA, mono-rail 79-83 dBA.                                                   |
| N03 – 60 Castlereagh Street           | 09/06/09 | 10:51       | 76                 | 69   | 66   | 65   | 68   | Traffic 66-80 dBA, clock 66 dBA, general city hum 66 dBA.                                                                                                                                |
| N04 – 52-53 Martin Place              | 15/05/09 | 15:27       | 78                 | 74   | 68   | 64   | 71   | Traffic 66-85 dBA, trees rustling 67 dBA, people 67-74 dBA.                                                                                                                              |
| N05 – 19 Martin Place                 | 15/05/09 | 15:47       | 75                 | 71   | 67   | 66   | 68   | Traffic 70-85 dBA, emergency vehicle 68 dBA, clock 71-75 dBA, general city hum 66 dBA, walk signal 70-71 dBA.                                                                            |
| N06 – 9 York Street                   | 15/05/09 | 16:15       | 80                 | 75   | 71   | 67   | 73   | Traffic 71-84 dBA, emergency vehicle 80 dBA.                                                                                                                                             |
| N07 – Corner Kent and Napoleon Street | 08/09/08 | 13:51       | 75                 | 70   | 67   | 66   | 69   | (1) Traffic 65-79 dBA, people 71 dBA.                                                                                                                                                    |
|                                       |          | 16:35       | 74                 | 71   | 68   | 66   | 69   | (2) People 79-83 dBA, traffic 70-82 dBA, truck breaks 77 dBA.                                                                                                                            |
| N08 – 1 Paternoster Road              | 07/05/09 | 12:19       | 66                 | 61   | 57   | 54   | 58   | Traffic 59-71 dBA, warning alarm 62 dBA, people 56-77 dBA.                                                                                                                               |
| N09 – 93 Miller Street                | 07/05/09 | 12:38       | 72                 | 65   | 59   | 55   | 64   | Traffic 63-88 dBA, people 60-79 dBA, plane 64-72 dBA.                                                                                                                                    |
| N10 – 17-23 Mount Street              | 04/05/09 | 11:07       | 68                 | 62   | 55   | 50   | 60   | Traffic 69-82 dBA, birds 50-54 dBA, people 55 dBA.                                                                                                                                       |
| N11 – 32/501 Glebe Point Road         | 27/05/09 | 17:30       | 62                 | 58   | -    | 53   | 56   | Aeroplane 57 to 65 dBA, dog barking 63 dBA, ambient dominated by Anzac Bridge traffic 55 to 56 dBA.                                                                                      |
| N12 – 27/1 Batty Street               | 28/05/09 | 10:44       | 62                 | 59   | -    | 57   | 58   | Aeroplane 62 dBA Distant petrol engine est. 58 dBA, noisy car on Anzac Bridge 64 dBA, truck 60 to 62 dBA. Ambient dominated by Anzac Bridge traffic 57 to 59 dBA.                        |
| N13 – Robert Street                   | 07/09/08 | 23:03       | 65                 | 52   | 50   | 49   | 53   | (1) Traffic of closest lane to ship auxiliary power (constant noise) 51 dBA, unloading from the ship 'H' 53 dBA, ship horn 54 dBA.                                                       |
|                                       | 08/09/08 | 09:34       | 70                 | 63   | 54   | 52   | 60   | (2) Traffic 64-68 dBA, ship auxiliary power 'H' or car carrier 51-53 dBA, ship horn 56-58 dBA, truck (18 wheeler loaded) 79-81 dBA.                                                      |
|                                       | 09/09/08 | 00:33       | 68                 | 54   | 51   | 49   | 60   | (3) Load speakers on the wharf 54-57 dBA, auxiliary power of ship (Enforcer II) 51-53 dBA, passing by loaded 18 wheeler 85-86 dBA.                                                       |
| N14 – 36 Lilyfield Street             | 06/05/09 | 19:35       | -                  | 63   | -    | 58   | 61   | Aeroplane 66 dBA, City West Link traffic typical 60 to 62 dBA, traffic max 70 to 72 dBA. Note reflection from eastern side of Anzac Bridge on ramp. Ambient dominated by City West Link. |

## Appendix D

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### Attended Noise Measurement Survey Information

| Location                  | Date     | Time of Day | Noise Levels (dBA) |      |      |      |      | Description of Noise Emission and Typical Maximum Noise Levels (LAmax)                                                                                                                         |
|---------------------------|----------|-------------|--------------------|------|------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           |          |             | LA1                | LA10 | LA50 | LA90 | LAeq |                                                                                                                                                                                                |
| N15 – 43/4 Hornsey Street | 31/03/09 | 18:37       | -                  | 74   | -    | 69   | 72   | Ambient dominated by Victoria Road, Western Distributor and Anzac Bridge traffic 72-74 dBA.                                                                                                    |
| N16 – 38 Burt Street      | 01/04/09 | 12:20       | -                  | 65   | -    | 54   | 63   | Aeroplane 62 to 65 dBA; birds 55 to 60 dBA, dog barking 90 dBA City West Link 55 to 60 dBA.                                                                                                    |
| N17 – 99 Victoria Road    | 04/05/09 | 9:24        | 85                 | 81   | 76   | 66   | 78   | Traffic 64-89 dBA, people 66-70 dBA, plane 74-78 dBA.                                                                                                                                          |
| N18 – 663 Darling Street  | 07/05/09 | 11:07       | 73                 | 66   | 61   | 57   | 64   | Traffic 62-78 dBA, school children 57-59 dBA, plane 67-76 dBA, birds 68 dBA.                                                                                                                   |
| N19 – 683 Darling Street  | 07/05/09 | 11:36       | 83                 | 75   | 68   | 64   | 72   | Victoria Road traffic 77-92 dBA, people 65-69 dBA, Victoria Road traffic is the dominant noise source.                                                                                         |
| N20 – 26 Waterloo Street  | 09/06/09 | 11:42       | 66                 | 59   | 55   | 52   | 57   | Traffic 68-94 dBA, people 60-68 dBA, wind in trees 60 dBA.                                                                                                                                     |
| N21 – 2 Hutcheson Street  | 01/04/09 | 12:57       | -                  | 68   | -    | 62   | 66   | Aeroplane 75 dBA, local traffic cars 65 to 68 dBA trucks 70 to 78 dBA. Ambient dominated by City West Link 66 to 68 dBA.                                                                       |
| N22 – 101 Lamb Street     | 01/04/09 | 13:35       | -                  | 70   | -    | 62   | 67   | Aeroplane 76 to 77 dBA, Robertsons Container Fork lift 68 to 69 dBA, local traffic cars 65 to 72 dBA trucks 77 to 78 dBA. Ambient dominated by City West Link 60 to 64 dBA.                    |
| N23 – 8 Pritchard Street  | 01/04/09 | 14:16       | -                  | 60   | -    | 54   | 58   | Aeroplane 64 to 65 dBA, City West Link traffic typical 60 to 62 dBA, traffic Max 70 to 72 dBA. Note reflection from eastern side of Anzac Bridge on ramp. Ambient dominated by City West Link. |
| N24 – 52 Starling Street  | 01/04/09 | 13:53       | -                  | 64   | -    | 61   | 63   | Aeroplane 70 to 74 dBA, local traffic 65 dBA, ambient dominated by City West Link.                                                                                                             |

## **Appendix E**

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### **Attended Noise and Vibration Measurements**

## Attended Ground-borne Noise Measurement Results

### Measurement Position V02 - Grand Lodge Room, Masonic Centre

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Sound Pressure Level (dBA) LAmax Slow Reponse |    |    |      |    |    |    |    |     |     |     |     |     |     | Overall |
|----------|-------------|--------------------------------------------------------------------------------|----|----|------|----|----|----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                             | 20 | 25 | 31.5 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 1        | 15:03:19    | 3                                                                              | 8  | 26 | 19   | 24 | 34 | 35 | 34 | 38  | 36  | 34  | 36  | 33  | 30  | 44      |
| 2        | 15:04:25    | 9                                                                              | 9  | 26 | 29   | 24 | 43 | 47 | 44 | 40  | 40  | 36  | 36  | 33  | 30  | 50      |
| 3        | 15:08:18    | 2                                                                              | 8  | 25 | 21   | 27 | 31 | 42 | 44 | 41  | 38  | 36  | 36  | 33  | 32  | 48      |
| 4        | 15:09:55    | 3                                                                              | 11 | 26 | 20   | 23 | 29 | 36 | 36 | 36  | 33  | 31  | 29  | 28  | 29  | 42      |
| 5        | 15:13:02    | 2                                                                              | 9  | 26 | 19   | 23 | 27 | 31 | 36 | 35  | 31  | 30  | 28  | 29  | 31  | 42      |
| 6        | 15:13:59    | 4                                                                              | 7  | 26 | 20   | 23 | 31 | 34 | 33 | 35  | 31  | 30  | 30  | 29  | 31  | 43      |
| 7        | 15:15:51    | 5                                                                              | 10 | 24 | 22   | 24 | 32 | 36 | 36 | 36  | 32  | 31  | 29  | 30  | 31  | 43      |
| 8        | 15:16:37    | 3                                                                              | 8  | 26 | 20   | 23 | 28 | 37 | 44 | 43  | 38  | 37  | 33  | 31  | 35  | 50      |
| 9        | 15:17:50    | 3                                                                              | 11 | 24 | 19   | 24 | 27 | 33 | 29 | 35  | 31  | 32  | 32  | 34  | 33  | 46      |
| 10       | 15:19:51    | 3                                                                              | 10 | 26 | 18   | 22 | 35 | 44 | 43 | 38  | 38  | 33  | 30  | 28  | 29  | 48      |

|                |           |
|----------------|-----------|
| <b>Average</b> | <b>45</b> |
| <b>Maximum</b> | <b>50</b> |

### Measurement Position V03 - Doric Theatre, Masonic Centre

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Sound Pressure Level (dBA) LAmax Slow Reponse |    |    |      |    |    |    |    |     |     |     |     |     |     | Overall |
|----------|-------------|--------------------------------------------------------------------------------|----|----|------|----|----|----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                             | 20 | 25 | 31.5 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 1        | 12:52:54    | 14                                                                             | 6  | 13 | 18   | 23 | 41 | 50 | 56 | 57  | 49  | 54  | 48  | 47  | 41  | 61      |
| 2        | 12:55:27    | 14                                                                             | 6  | 13 | 16   | 22 | 39 | 43 | 47 | 44  | 41  | 41  | 38  | 37  | 35  | 51      |
| 3        | 12:57:55    | 14                                                                             | 6  | 14 | 18   | 23 | 42 | 44 | 46 | 43  | 41  | 41  | 41  | 40  | 38  | 50      |
| 4        | 12:59:58    | 14                                                                             | 5  | 15 | 17   | 27 | 47 | 35 | 36 | 36  | 37  | 41  | 42  | 40  | 38  | 51      |
| 5        | 13:00:19    | 15                                                                             | 6  | 15 | 18   | 23 | 38 | 43 | 42 | 37  | 41  | 37  | 39  | 39  | 36  | 48      |
| 7        | 13:03:14    | 13                                                                             | 6  | 16 | 20   | 26 | 45 | 44 | 43 | 41  | 40  | 40  | 41  | 40  | 37  | 50      |
| 8        | 13:04:25    | 14                                                                             | 6  | 13 | 19   | 29 | 52 | 54 | 55 | 50  | 46  | 48  | 45  | 49  | 41  | 59      |
| 9        | 13:08:03    | 13                                                                             | 7  | 17 | 20   | 37 | 61 | 56 | 52 | 46  | 50  | 47  | 46  | 47  | 42  | 62      |
| 11       | 13:12:54    | 13                                                                             | 5  | 15 | 18   | 25 | 37 | 46 | 45 | 45  | 42  | 40  | 41  | 40  | 35  | 49      |
| 12       | 13:14:13    | 13                                                                             | 5  | 19 | 18   | 32 | 46 | 34 | 39 | 39  | 40  | 40  | 42  | 40  | 37  | 50      |
| 13       | 13:15:50    | 13                                                                             | 5  | 17 | 19   | 25 | 35 | 44 | 46 | 44  | 41  | 40  | 42  | 40  | 36  | 50      |
| 14       | 13:16:34    | 14                                                                             | 5  | 17 | 18   | 24 | 41 | 52 | 57 | 55  | 48  | 51  | 51  | 50  | 46  | 61      |
| 15       | 13:17:46    | 12                                                                             | 5  | 18 | 19   | 25 | 38 | 43 | 41 | 35  | 38  | 38  | 41  | 40  | 36  | 48      |
| 16       | 13:21:59    | 13                                                                             | 5  | 18 | 18   | 25 | 34 | 39 | 38 | 35  | 35  | 38  | 40  | 39  | 36  | 47      |
| 17       | 13:25:45    | 12                                                                             | 5  | 17 | 19   | 25 | 38 | 45 | 44 | 44  | 41  | 40  | 40  | 40  | 35  | 50      |
| 18       | 13:28:14    | 14                                                                             | 7  | 18 | 22   | 25 | 44 | 35 | 37 | 37  | 40  | 44  | 46  | 43  | 40  | 50      |
| 19       | 13:28:57    | 12                                                                             | 4  | 15 | 20   | 25 | 39 | 47 | 54 | 56  | 52  | 51  | 52  | 46  | 44  | 60      |
| 20       | 13:30:23    | 13                                                                             | 7  | 17 | 18   | 24 | 39 | 34 | 35 | 35  | 37  | 39  | 42  | 41  | 39  | 48      |
| 21       | 13:32:56    | 13                                                                             | 5  | 17 | 21   | 33 | 45 | 43 | 40 | 36  | 39  | 40  | 44  | 41  | 37  | 50      |
| 22       | 13:33:52    | 12                                                                             | 5  | 16 | 20   | 24 | 34 | 32 | 45 | 45  | 44  | 38  | 43  | 41  | 36  | 50      |
| 24       | 13:35:23    | 14                                                                             | 6  | 17 | 19   | 26 | 45 | 52 | 53 | 49  | 47  | 47  | 45  | 45  | 39  | 58      |
| 25       | 13:37:28    | 14                                                                             | 6  | 18 | 20   | 35 | 59 | 53 | 52 | 47  | 48  | 49  | 50  | 50  | 45  | 61      |

|                |           |
|----------------|-----------|
| <b>Average</b> | <b>53</b> |
| <b>Maximum</b> | <b>62</b> |

### Measurement Position V04 - Ada Evans Chambers

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Sound Pressure Level (dBA) LAmax Slow Reponse |    |    |      |    |    |    |    |     |     |     |     |     |     | Overall |
|----------|-------------|--------------------------------------------------------------------------------|----|----|------|----|----|----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                             | 20 | 25 | 31.5 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 1        | 11:16:32    | 1                                                                              | 7  | 7  | 15   | 19 | 33 | 44 | 40 | 43  | 36  | 36  | 34  | 33  | 28  | 46      |
| 3        | 11:21:52    | 1                                                                              | 8  | 10 | 6    | 14 | 29 | 36 | 42 | 46  | 38  | 38  | 36  | 33  | 28  | 48      |
| 4        | 11:24:54    | 1                                                                              | 8  | 4  | 3    | 11 | 27 | 34 | 31 | 33  | 29  | 29  | 30  | 28  | 26  | 41      |
| 5        | 11:27:58    | 0                                                                              | 4  | 0  | 1    | 7  | 16 | 25 | 25 | 30  | 27  | 30  | 24  | 29  | 31  | 42      |
| 6        | 11:32:49    | 1                                                                              | 8  | 7  | 8    | 20 | 31 | 32 | 32 | 35  | 33  | 33  | 33  | 38  | 30  | 42      |
| 7        | 11:35:09    | 18                                                                             | 22 | 24 | 28   | 32 | 37 | 47 | 50 | 51  | 44  | 45  | 42  | 44  | 40  | 55      |
| 9        | 11:37:34    | 0                                                                              | 6  | 3  | 5    | 16 | 35 | 46 | 40 | 39  | 37  | 37  | 31  | 31  | 27  | 47      |
| 10       | 11:47:41    | 1                                                                              | 8  | 7  | 7    | 12 | 32 | 41 | 40 | 42  | 35  | 34  | 34  | 34  | 26  | 46      |

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Sound Pressure Level (dBA) LAmax Slow Response |    |    |      |    |    |    |    |     |     |     |     |     |     | Overall |
|----------|-------------|---------------------------------------------------------------------------------|----|----|------|----|----|----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                              | 20 | 25 | 31.5 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 11       | 11:50:12    | 0                                                                               | 7  | 4  | 5    | 12 | 32 | 45 | 42 | 42  | 37  | 38  | 31  | 32  | 26  | 47      |
| 12       | 11:56:55    | 0                                                                               | 7  | 2  | 7    | 11 | 24 | 36 | 43 | 46  | 37  | 35  | 31  | 34  | 29  | 48      |
| 14       | 12:04:39    | 2                                                                               | 10 | 5  | 10   | 14 | 32 | 39 | 45 | 49  | 39  | 37  | 36  | 36  | 31  | 51      |
| 15       | 12:08:21    | 2                                                                               | 7  | 6  | 8    | 10 | 27 | 37 | 43 | 44  | 36  | 34  | 33  | 33  | 29  | 48      |
| 18       | 12:12:49    | 0                                                                               | 2  | 7  | 2    | 4  | 19 | 27 | 27 | 31  | 33  | 36  | 34  | 38  | 30  | 45      |
| 19       | 12:18:55    | 1                                                                               | 5  | 7  | 6    | 12 | 27 | 39 | 39 | 43  | 35  | 36  | 32  | 31  | 26  | 47      |
| 20       | 12:21:02    | 0                                                                               | 6  | 4  | 7    | 14 | 33 | 42 | 37 | 36  | 37  | 37  | 32  | 32  | 26  | 45      |
| 21       | 12:25:38    | 9                                                                               | 9  | 5  | 10   | 16 | 31 | 42 | 43 | 44  | 37  | 35  | 33  | 33  | 29  | 46      |
| 22       | 12:30:45    | 6                                                                               | 12 | 10 | 12   | 17 | 37 | 39 | 37 | 39  | 34  | 36  | 36  | 36  | 30  | 44      |
| 23       | 12:34:36    | 0                                                                               | 6  | 6  | 10   | 16 | 33 | 39 | 42 | 42  | 38  | 35  | 32  | 32  | 28  | 46      |
| 24       | 12:37:34    | 0                                                                               | 5  | 4  | 6    | 11 | 17 | 23 | 37 | 46  | 45  | 32  | 32  | 31  | 28  | 48      |
| 25       | 12:39:44    | 0                                                                               | 4  | 4  | 5    | 9  | 18 | 25 | 29 | 34  | 27  | 31  | 29  | 27  | 29  | 39      |
| 26       | 12:45:01    | 2                                                                               | 8  | 8  | 16   | 22 | 23 | 24 | 30 | 34  | 30  | 32  | 30  | 32  | 28  | 39      |
| 27       | 12:46:48    | 0                                                                               | 6  | 5  | 7    | 13 | 30 | 40 | 39 | 43  | 35  | 35  | 32  | 32  | 30  | 45      |
| 28       | 12:50:48    | 0                                                                               | 3  | 6  | 4    | 9  | 25 | 36 | 36 | 39  | 34  | 34  | 35  | 35  | 37  | 48      |

|         |    |
|---------|----|
| Average | 46 |
| Maximum | 55 |

Measurement Position V05 - 98 Liverpool Street, Sydney Central Courts

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Sound Pressure Level (dBA) LAmax Slow Response |    |    |      |    |    |    |    |     |     |     |     |     |     | Overall |
|----------|-------------|---------------------------------------------------------------------------------|----|----|------|----|----|----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                              | 20 | 25 | 31.5 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 1        | 15:13:41    | 1                                                                               | 9  | 21 | 11   | 26 | 34 | 44 | 49 | 41  | 38  | 37  | 30  | 29  | 28  | 51      |
| 2        | 15:15:25    | 4                                                                               | 10 | 18 | 14   | 24 | 34 | 38 | 43 | 38  | 35  | 33  | 27  | 30  | 31  | 45      |
| 3        | 15:17:06    | 1                                                                               | 10 | 19 | 22   | 38 | 43 | 40 | 52 | 45  | 38  | 39  | 29  | 27  | 26  | 53      |
| 4        | 15:18:03    | 1                                                                               | 10 | 19 | 13   | 23 | 34 | 32 | 32 | 33  | 31  | 29  | 27  | 24  | 23  | 41      |
| 5        | 15:21:30    | 6                                                                               | 11 | 21 | 17   | 31 | 41 | 38 | 48 | 42  | 38  | 37  | 29  | 28  | 25  | 50      |
| 6        | 15:22:32    | 0                                                                               | 8  | 18 | 14   | 29 | 41 | 34 | 32 | 32  | 31  | 29  | 27  | 24  | 24  | 47      |
| 7        | 15:23:09    | 1                                                                               | 11 | 19 | 21   | 36 | 42 | 37 | 41 | 43  | 39  | 34  | 31  | 27  | 25  | 47      |
| 8        | 15:25:02    | 4                                                                               | 11 | 18 | 14   | 34 | 42 | 38 | 41 | 38  | 38  | 33  | 28  | 25  | 24  | 46      |
| 9        | 15:27:25    | 4                                                                               | 13 | 18 | 14   | 34 | 44 | 40 | 39 | 37  | 38  | 33  | 31  | 28  | 29  | 47      |
| 10       | 15:28:19    | 0                                                                               | 11 | 20 | 17   | 34 | 46 | 40 | 48 | 42  | 41  | 35  | 29  | 26  | 25  | 50      |
| 11       | 15:30:20    | 2                                                                               | 8  | 19 | 17   | 29 | 36 | 35 | 39 | 39  | 37  | 31  | 27  | 26  | 28  | 46      |
| 12       | 15:30:56    | 4                                                                               | 12 | 19 | 15   | 30 | 37 | 35 | 40 | 32  | 32  | 28  | 26  | 26  | 29  | 42      |
| 13       | 15:32:23    | 3                                                                               | 12 | 18 | 17   | 36 | 53 | 45 | 41 | 43  | 43  | 32  | 28  | 27  | 27  | 54      |
| 14       | 15:35:04    | 2                                                                               | 10 | 16 | 17   | 26 | 35 | 39 | 41 | 38  | 36  | 33  | 27  | 33  | 34  | 46      |
| 15       | 15:35:40    | 2                                                                               | 14 | 20 | 20   | 37 | 49 | 39 | 39 | 42  | 37  | 35  | 31  | 30  | 28  | 49      |
| 16       | 15:36:29    | 6                                                                               | 15 | 21 | 14   | 24 | 34 | 38 | 44 | 39  | 36  | 33  | 29  | 28  | 26  | 46      |
| 17       | 15:38:07    | 3                                                                               | 15 | 18 | 16   | 42 | 45 | 37 | 40 | 37  | 34  | 30  | 28  | 28  | 26  | 48      |
| 18       | 15:39:28    | 4                                                                               | 10 | 16 | 14   | 25 | 41 | 41 | 37 | 34  | 37  | 28  | 27  | 26  | 25  | 45      |
| 19       | 15:40:40    | 2                                                                               | 14 | 19 | 19   | 45 | 51 | 39 | 41 | 42  | 38  | 34  | 31  | 30  | 29  | 52      |
| 20       | 15:42:49    | 4                                                                               | 12 | 18 | 14   | 26 | 40 | 42 | 40 | 36  | 37  | 34  | 28  | 27  | 27  | 45      |
| 21       | 15:44:24    | 0                                                                               | 12 | 17 | 13   | 24 | 35 | 32 | 34 | 33  | 28  | 27  | 26  | 25  | 24  | 41      |
| 22       | 15:45:35    | 5                                                                               | 10 | 17 | 15   | 33 | 43 | 42 | 41 | 37  | 37  | 32  | 30  | 28  | 25  | 47      |
| 23       | 15:47:14    | 5                                                                               | 12 | 18 | 22   | 40 | 45 | 38 | 43 | 43  | 37  | 34  | 30  | 32  | 28  | 49      |

|         |    |
|---------|----|
| Average | 47 |
| Maximum | 54 |

## Attended Vibration Measurement Results

### Measurement Position V02 - Grand Lodge Room, Masonic Centre

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Vibration Level (dBv) Lmax Slow Reponse |    |    |      |    |     |    |    |     |     |     |     |     |     | Overall |
|----------|-------------|--------------------------------------------------------------------------|----|----|------|----|-----|----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                       | 20 | 25 | 31.5 | 40 | 50  | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 1        | 15:03:19    | 84                                                                       | 77 | 82 | 75   | 76 | 91  | 94 | 93 | 83  | 79  | 77  | 54  | 45  | 46  | 99      |
| 2        | 15:04:25    | 84                                                                       | 76 | 81 | 75   | 71 | 73  | 72 | 65 | 69  | 63  | 65  | 47  | 45  | 45  | 90      |
| 3        | 15:08:18    | 84                                                                       | 77 | 82 | 75   | 74 | 82  | 90 | 94 | 92  | 80  | 79  | 58  | 47  | 48  | 98      |
| 4        | 15:09:55    | 82                                                                       | 75 | 82 | 76   | 77 | 87  | 89 | 82 | 83  | 72  | 70  | 54  | 52  | 52  | 95      |
| 5        | 15:13:02    | 83                                                                       | 78 | 80 | 74   | 77 | 88  | 86 | 83 | 76  | 71  | 71  | 53  | 45  | 49  | 95      |
| 6        | 15:13:59    | 83                                                                       | 77 | 81 | 73   | 73 | 76  | 84 | 83 | 79  | 71  | 72  | 49  | 46  | 45  | 93      |
| 7        | 15:15:51    | 84                                                                       | 76 | 81 | 75   | 74 | 82  | 88 | 82 | 80  | 75  | 71  | 50  | 49  | 48  | 93      |
| 8        | 15:16:37    | 84                                                                       | 76 | 81 | 75   | 75 | 88  | 94 | 95 | 89  | 81  | 77  | 54  | 52  | 51  | 99      |
| 9        | 15:17:50    | 86                                                                       | 77 | 82 | 79   | 80 | 100 | 97 | 92 | 85  | 83  | 71  | 52  | 49  | 48  | 103     |
| 10       | 15:19:51    | 83                                                                       | 78 | 82 | 74   | 74 | 77  | 77 | 73 | 72  | 72  | 63  | 51  | 50  | 50  | 91      |

|                        |            |
|------------------------|------------|
| <b>Average Maximum</b> | <b>96</b>  |
|                        | <b>103</b> |

### Measurement Position V03 - Doric Theatre, Masonic Centre

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Vibration Level (dBv) Lmax Slow Reponse |    |    |      |    |     |     |    |     |     |     |     |     |     | Overall |
|----------|-------------|--------------------------------------------------------------------------|----|----|------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                       | 20 | 25 | 31.5 | 40 | 50  | 63  | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 1        | 12:52:54    | 87                                                                       | 87 | 91 | 80   | 81 | 95  | 104 | 99 | 95  | 90  | 87  | 91  | 76  | 73  | 107     |
| 2        | 12:55:27    | 75                                                                       | 76 | 82 | 69   | 73 | 91  | 94  | 89 | 84  | 78  | 75  | 82  | 73  | 63  | 97      |
| 3        | 12:57:55    | 75                                                                       | 79 | 83 | 77   | 86 | 94  | 82  | 80 | 77  | 73  | 75  | 86  | 84  | 66  | 96      |
| 4        | 12:59:58    | 75                                                                       | 73 | 81 | 69   | 71 | 85  | 93  | 84 | 77  | 74  | 69  | 79  | 81  | 66  | 95      |
| 5        | 13:00:19    | 75                                                                       | 79 | 82 | 76   | 79 | 91  | 93  | 87 | 80  | 73  | 72  | 79  | 87  | 74  | 97      |
| 7        | 13:03:14    | 75                                                                       | 79 | 82 | 71   | 72 | 89  | 96  | 98 | 95  | 83  | 85  | 85  | 89  | 73  | 102     |
| 8        | 13:04:25    | 75                                                                       | 75 | 81 | 76   | 78 | 97  | 103 | 97 | 89  | 82  | 79  | 83  | 89  | 80  | 105     |
| 9        | 13:08:03    | 75                                                                       | 80 | 84 | 75   | 91 | 114 | 105 | 95 | 88  | 91  | 89  | 80  | 71  | 71  | 115     |
| 11       | 13:12:54    | 75                                                                       | 75 | 81 | 69   | 72 | 88  | 95  | 89 | 81  | 82  | 79  | 77  | 61  | 62  | 97      |
| 12       | 13:14:13    | 75                                                                       | 75 | 82 | 74   | 72 | 86  | 97  | 90 | 86  | 82  | 79  | 81  | 63  | 65  | 99      |
| 13       | 13:15:50    | 74                                                                       | 75 | 82 | 73   | 71 | 82  | 96  | 92 | 84  | 80  | 80  | 83  | 63  | 64  | 98      |
| 14       | 13:16:34    | 76                                                                       | 77 | 83 | 74   | 74 | 91  | 100 | 99 | 94  | 88  | 93  | 89  | 74  | 72  | 104     |
| 15       | 13:17:46    | 74                                                                       | 76 | 82 | 69   | 70 | 86  | 92  | 85 | 78  | 74  | 79  | 83  | 64  | 61  | 94      |
| 16       | 13:21:59    | 75                                                                       | 77 | 82 | 71   | 71 | 84  | 89  | 85 | 77  | 74  | 79  | 84  | 63  | 62  | 93      |
| 17       | 13:25:45    | 74                                                                       | 77 | 82 | 72   | 75 | 87  | 97  | 90 | 85  | 79  | 76  | 81  | 65  | 62  | 99      |
| 18       | 13:28:14    | 75                                                                       | 78 | 82 | 75   | 76 | 91  | 85  | 82 | 79  | 79  | 83  | 87  | 69  | 65  | 95      |
| 19       | 13:28:57    | 75                                                                       | 78 | 82 | 74   | 73 | 88  | 97  | 97 | 96  | 91  | 92  | 91  | 72  | 69  | 103     |
| 20       | 13:30:23    | 76                                                                       | 78 | 82 | 75   | 78 | 88  | 83  | 80 | 77  | 75  | 78  | 84  | 68  | 64  | 92      |
| 21       | 13:32:56    | 74                                                                       | 79 | 83 | 76   | 85 | 96  | 94  | 86 | 78  | 76  | 79  | 85  | 67  | 63  | 99      |
| 22       | 13:33:52    | 74                                                                       | 75 | 81 | 69   | 70 | 82  | 79  | 88 | 88  | 86  | 76  | 83  | 72  | 62  | 94      |
| 24       | 13:35:23    | 75                                                                       | 81 | 83 | 76   | 74 | 96  | 102 | 98 | 88  | 84  | 82  | 84  | 71  | 65  | 105     |
| 25       | 13:37:28    | 75                                                                       | 79 | 82 | 73   | 91 | 110 | 106 | 96 | 89  | 88  | 87  | 88  | 74  | 68  | 111     |

|                        |            |
|------------------------|------------|
| <b>Average Maximum</b> | <b>100</b> |
|                        | <b>115</b> |

### Measurement Position V04 - Ada Evans Chambers

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Vibration Level (dBv) Lmax Slow Reponse |    |    |      |    |    |     |    |     |     |     |     |     |     | Overall |
|----------|-------------|--------------------------------------------------------------------------|----|----|------|----|----|-----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                       | 20 | 25 | 31.5 | 40 | 50 | 63  | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 1        | 11:16:32    | 76                                                                       | 79 | 80 | 77   | 78 | 92 | 101 | 92 | 89  | 79  | 75  | 69  | 69  | 64  | 102     |
| 3        | 11:21:52    | 77                                                                       | 77 | 73 | 77   | 83 | 89 | 93  | 94 | 94  | 81  | 76  | 70  | 69  | 65  | 99      |
| 4        | 11:24:54    | 76                                                                       | 77 | 74 | 69   | 75 | 87 | 90  | 79 | 79  | 68  | 65  | 61  | 61  | 56  | 93      |
| 5        | 11:27:58    | 77                                                                       | 79 | 74 | 70   | 75 | 81 | 91  | 77 | 72  | 70  | 68  | 64  | 65  | 58  | 93      |
| 6        | 11:32:49    | 76                                                                       | 77 | 73 | 72   | 83 | 87 | 86  | 77 | 78  | 69  | 68  | 64  | 66  | 70  | 92      |
| 7        | 11:35:09    | 78                                                                       | 78 | 74 | 77   | 81 | 90 | 97  | 94 | 89  | 79  | 73  | 66  | 66  | 63  | 100     |
| 9        | 11:37:34    | 75                                                                       | 77 | 73 | 77   | 83 | 95 | 101 | 93 | 88  | 80  | 76  | 68  | 67  | 61  | 103     |



| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Vibration Level (dBv) Lmax Slow Reponse |    |    |      |    |    |     |    |     |     |     |     |     |     | Overall |
|----------|-------------|--------------------------------------------------------------------------|----|----|------|----|----|-----|----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                       | 20 | 25 | 31.5 | 40 | 50 | 63  | 80 | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 10       | 11:47:41    | 79                                                                       | 78 | 73 | 72   | 79 | 92 | 97  | 92 | 88  | 77  | 73  | 65  | 65  | 60  | 100     |
| 11       | 11:50:12    | 77                                                                       | 78 | 72 | 74   | 82 | 93 | 100 | 93 | 89  | 79  | 76  | 67  | 68  | 61  | 102     |
| 12       | 11:56:55    | 80                                                                       | 77 | 72 | 75   | 78 | 85 | 96  | 97 | 94  | 79  | 76  | 70  | 68  | 64  | 101     |
| 14       | 12:04:39    | 77                                                                       | 77 | 76 | 74   | 83 | 92 | 93  | 94 | 93  | 80  | 75  | 70  | 70  | 65  | 99      |
| 15       | 12:08:21    | 80                                                                       | 80 | 74 | 75   | 78 | 86 | 93  | 93 | 90  | 76  | 73  | 69  | 67  | 62  | 98      |
| 18       | 12:12:49    |                                                                          |    |    |      |    |    |     |    |     |     |     |     |     |     |         |
| 19       | 12:18:55    | 80                                                                       | 79 | 72 | 74   | 83 | 92 | 98  | 94 | 94  | 80  | 75  | 68  | 66  | 61  | 101     |
| 20       | 12:21:02    | 81                                                                       | 81 | 73 | 75   | 81 | 96 | 99  | 91 | 84  | 77  | 75  | 69  | 69  | 62  | 102     |
| 21       | 12:25:38    | 80                                                                       | 78 | 73 | 78   | 84 | 91 | 99  | 94 | 89  | 80  | 75  | 67  | 67  | 60  | 101     |
| 22       | 12:30:45    | 74                                                                       | 76 | 72 | 68   | 74 | 91 | 95  | 79 | 75  | 68  | 63  | 61  | 62  | 56  | 97      |
| 23       | 12:34:36    | 80                                                                       | 80 | 75 | 78   | 83 | 95 | 99  | 93 | 89  | 79  | 75  | 68  | 68  | 62  | 101     |
| 24       | 12:37:34    | 75                                                                       | 75 | 72 | 76   | 79 | 80 | 83  | 89 | 94  | 85  | 73  | 68  | 67  | 63  | 96      |
| 25       | 12:39:44    | 75                                                                       | 77 | 72 | 68   | 72 | 82 | 85  | 78 | 80  | 69  | 64  | 61  | 60  | 57  | 89      |
| 26       | 12:45:01    | 80                                                                       | 80 | 76 | 82   | 95 | 87 | 85  | 77 | 77  | 68  | 66  | 62  | 61  | 56  | 97      |
| 27       | 12:46:48    | 82                                                                       | 79 | 73 | 73   | 78 | 93 | 99  | 93 | 91  | 78  | 74  | 69  | 69  | 63  | 101     |
| 28       | 12:50:48    | 79                                                                       | 79 | 77 | 73   | 79 | 93 | 99  | 92 | 89  | 78  | 75  | 70  | 70  | 65  | 101     |

|                |            |
|----------------|------------|
| <b>Average</b> | <b>98</b>  |
| <b>Maximum</b> | <b>103</b> |

**Measurement Position V05 - 98 Liverpool Street, Sydney Central Courts**

| Meas No. | Time of Day | 1/3 Octave Frequency Band (Hz) - Vibration Level (dBv) Lmax Slow Reponse |    |     |      |     |     |     |     |     |     |     |     |     |     | Overall |
|----------|-------------|--------------------------------------------------------------------------|----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
|          |             | 16                                                                       | 20 | 25  | 31.5 | 40  | 50  | 63  | 80  | 100 | 125 | 160 | 200 | 250 | 315 |         |
| 1        | 15:13:41    | 95                                                                       | 90 | 95  | 97   | 97  | 110 | 115 | 118 | 99  | 100 | 93  | 90  | 88  | 76  | 120     |
| 2        | 15:15:25    | 95                                                                       | 89 | 95  | 98   | 97  | 105 | 114 | 120 | 98  | 96  | 96  | 93  | 101 | 93  | 121     |
| 3        | 15:17:06    | 94                                                                       | 94 | 102 | 113  | 110 | 109 | 111 | 121 | 105 | 99  | 97  | 92  | 86  | 71  | 123     |
| 4        | 15:18:03    | 92                                                                       | 85 | 95  | 94   | 93  | 96  | 97  | 89  | 85  | 82  | 81  | 88  | 80  | 66  | 103     |
| 5        | 15:21:30    | 93                                                                       | 88 | 97  | 102  | 104 | 109 | 113 | 120 | 103 | 99  | 96  | 91  | 86  | 69  | 121     |
| 6        | 15:22:32    | 90                                                                       | 89 | 96  | 101  | 102 | 110 | 105 | 98  | 91  | 91  | 84  | 87  | 81  | 67  | 112     |
| 7        | 15:23:09    | 90                                                                       | 87 | 100 | 109  | 109 | 108 | 111 | 111 | 102 | 99  | 94  | 91  | 86  | 70  | 117     |
| 8        | 15:25:02    | 90                                                                       | 90 | 97  | 100  | 105 | 110 | 113 | 117 | 98  | 99  | 93  | 90  | 83  | 74  | 120     |
| 9        | 15:27:25    | 95                                                                       | 90 | 96  | 100  | 104 | 108 | 114 | 114 | 95  | 100 | 91  | 91  | 83  | 76  | 118     |
| 10       | 15:28:19    | 90                                                                       | 88 | 95  | 102  | 105 | 110 | 114 | 118 | 102 | 101 | 94  | 89  | 85  | 69  | 121     |
| 11       | 15:30:20    | 96                                                                       | 93 | 100 | 107  | 104 | 103 | 105 | 109 | 101 | 99  | 93  | 91  | 85  | 69  | 114     |
| 12       | 15:30:56    | 92                                                                       | 87 | 96  | 101  | 101 | 104 | 104 | 100 | 91  | 89  | 82  | 88  | 83  | 73  | 110     |
| 13       | 15:32:23    | 91                                                                       | 88 | 98  | 104  | 106 | 119 | 117 | 111 | 99  | 101 | 91  | 93  | 84  | 69  | 122     |
| 14       | 15:35:04    | 93                                                                       | 89 | 95  | 97   | 100 | 104 | 115 | 121 | 99  | 99  | 93  | 90  | 89  | 77  | 122     |
| 15       | 15:35:40    | 92                                                                       | 89 | 101 | 110  | 109 | 116 | 113 | 113 | 102 | 103 | 96  | 94  | 89  | 72  | 120     |
| 16       | 15:36:29    | 96                                                                       | 92 | 97  | 101  | 99  | 101 | 114 | 119 | 101 | 99  | 95  | 90  | 85  | 69  | 120     |
| 17       | 15:38:07    | 97                                                                       | 94 | 98  | 108  | 110 | 112 | 111 | 110 | 96  | 99  | 91  | 90  | 84  | 68  | 117     |
| 18       | 15:39:28    | 95                                                                       | 87 | 95  | 100  | 99  | 112 | 113 | 110 | 95  | 99  | 87  | 89  | 83  | 71  | 117     |
| 19       | 15:40:40    | 89                                                                       | 88 | 99  | 108  | 109 | 116 | 112 | 112 | 101 | 100 | 95  | 92  | 88  | 71  | 120     |
| 20       | 15:42:49    | 94                                                                       | 92 | 96  | 101  | 98  | 110 | 116 | 115 | 97  | 100 | 92  | 90  | 84  | 67  | 120     |
| 21       | 15:44:24    | 87                                                                       | 85 | 96  | 97   | 98  | 102 | 103 | 104 | 92  | 87  | 81  | 87  | 80  | 65  | 109     |
| 22       | 15:45:35    | 95                                                                       | 90 | 97  | 100  | 104 | 111 | 116 | 119 | 99  | 99  | 93  | 92  | 86  | 68  | 122     |
| 23       | 15:47:14    | 93                                                                       | 93 | 104 | 113  | 111 | 110 | 112 | 111 | 102 | 102 | 93  | 91  | 88  | 73  | 119     |

|                |            |
|----------------|------------|
| <b>Average</b> | <b>118</b> |
| <b>Maximum</b> | <b>123</b> |