

# Appendix 9.1

## Noise Survey Details



**Stafford Western Access Route Environmental Statement  
Volume 3 – Technical Appendices  
Appendix 9.1: Noise Survey Details**



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Noise measurements were undertaken using sound level meters complying with precision ‘Class 1’ or ‘Type 1’ as defined in IEC 61672-1:2002 or BS EN IEC 60651/804. Sound level meters were field calibrated before and after each set of measurements with no significant drift in calibration observed. Details of the equipment used and the date of the last long-term UKAS calibration are presented below in Table A9.1. Calibration certificates are available on request.

**Table A9.1 – Equipment Details**

| Equipment         | Manufacturer/Model | Serial Number | Date of Last Calibration |
|-------------------|--------------------|---------------|--------------------------|
| Sound Level Meter | Norsonic 140       | 1403790       | 06/06/14                 |
| Field Calibrator  | Norsonic 1251      | 830348        | 06/06/14                 |
| Sound Level Meter | Norsonic 118       | 31609         | 04/06/14                 |
| Field Calibrator  | Norsonic 1251      | 31227         | 03/06/14                 |

**Table A9.2 - Measured Noise Levels**

| Measurement Position | Date/Time                | Measurement Duration | dB L <sub>Aeq</sub> | dB L <sub>AMax</sub> | dB L <sub>A10</sub> | dB L <sub>A90</sub> |
|----------------------|--------------------------|----------------------|---------------------|----------------------|---------------------|---------------------|
| 1                    | (2014/07/08 14:00:03.00) | (0:15:0.0)           | 49.3                | 61.7                 | 51.5                | 46.3                |
|                      | (2014/07/08 15:01:14.00) | (0:15:0.0)           | 48.6                | 55.1                 | 50.2                | 46.6                |
|                      | (2014/07/08 16:02:18.00) | (0:15:0.0)           | 48.5                | 60.4                 | 51.2                | 45.3                |
| 2                    | (2014/07/08 14:27:01.00) | (0:15:0.0)           | 44.0                | 55.2                 | 46.2                | 41.7                |
|                      | (2014/07/08 15:25:01.00) | (0:15:0.0)           | 47.4                | 66.1                 | 48.8                | 41.6                |
|                      | (2014/07/08 16:26:01.00) | (0:15:0.0)           | 44.9                | 60.1                 | 45.8                | 42.2                |
| 3                    | (2014/07/08 10:24:01.00) | (0:15:0.0)           | 48.5                | 71.3                 | 48.0                | 42.6                |
|                      | (2014/07/08 11:22:00.00) | (0:15:0.0)           | 47.1                | 65.4                 | 47.8                | 43.5                |
|                      | (2014/07/08 12:21:01.00) | (0:15:0.0)           | 49.2                | 67.8                 | 49.3                | 43.2                |
| 4                    | (2014/07/08 10:04:05.00) | (0:15:0.0)           | 58.3                | 73.8                 | 61.0                | 50.6                |
|                      | (2014/07/08 11:02:01.00) | (0:15:0.0)           | 58.9                | 69.0                 | 61.2                | 53.9                |
|                      | (2014/07/08 12:00:03.00) | (0:15:0.0)           | 56.2                | 76.9                 | 59.7                | 45.0                |
| 5                    | (2014/07/08 14:00:00.00) | (0:15:0.0)           | 65.2                | 80.1                 | 70.0                | 49.1                |
|                      | (2014/07/08 15:15:00.00) | (0:15:0.0)           | 67.3                | 80.9                 | 70.9                | 54.1                |
|                      | (2014/07/08 16:15:00.00) | (0:15:0.0)           | 63.8                | 82.4                 | 67.5                | 47.1                |
| 6                    | (2014/07/08 10:43:00.00) | (0:15:0.0)           | 64.1                | 81.3                 | 66.8                | 55.9                |
|                      | (2014/07/08 11:25:03.00) | (0:15:0.0)           | 63.7                | 76.7                 | 66.7                | 57.0                |
|                      | (2014/07/08 12:04:00.00) | (0:15:0.0)           | 65.8                | 82.0                 | 68.3                | 58.1                |

|   |                             |            |      |      |      |      |
|---|-----------------------------|------------|------|------|------|------|
| 7 | (2014/07/08<br>10:20:25.00) | (0:15:0.0) | 46.0 | 64.2 | 47.8 | 43.1 |
|   | (2014/07/08<br>11:44:00.00) | (0:15:0.0) | 48.2 | 60.2 | 49.2 | 46.7 |
|   | (2014/07/08<br>12:44:00.00) | (0:15:0.0) | 47.0 | 57.9 | 48.8 | 45.0 |
| 8 | (2014/07/08<br>14:29:01.00) | (0:15:0.0) | 54.3 | 70.6 | 57.0 | 47.5 |
|   | (2014/07/08<br>15:45:00.00) | (0:15:0.0) | 55.8 | 77.7 | 57.1 | 47.7 |
|   | (2014/07/08<br>16:42:00.00) | (0:15:0.0) | 56.6 | 76.7 | 58.9 | 48.6 |
| 9 | (2014/07/08<br>10:00:00.00) | (0:15:0.0) | 58.5 | 70.9 | 61.1 | 52.0 |
|   | (2014/07/08<br>11:07:00.00) | (0:15:0.0) | 58.5 | 67.8 | 61.0 | 53.7 |
|   | (2014/07/08<br>12:23:00.00) | (0:15:0.0) | 57.5 | 68.8 | 60.1 | 52.2 |