

## **APPENDIX 13.3** Baseline Noise Survey

Appendix 13.3 Baseline Noise Survey

## BASELINE NOISE SURVEY

### 1.1 Programme of Measurements:

- 1.1.1 The meter was calibrated at the start of the measurement procedures.
- 1.1.2 The calibration was checked at the end of the procedure and no significant errors recorded.
- 1.1.3 Measurements were carried out:
- 17<sup>th</sup> August 2009, 21:00 - 00:00 hrs and
  - 18<sup>th</sup> August 2009, 21:00 - 00:00 hrs

Weather conditions: Dry, Clear, Still, Warm

### 1.2 Measurement Procedure:

- 1.2.1 Measurements were carried out on a "round robin" basis at four identified monitoring locations. Each location was visited three times during the monitoring period.

Location	Meter Position
Island Farm Close	At end of close, 4m from fence boundary between housing from proposed site.
Merthyr Mawr Road	Adjacent to the A48, opposite the junction with Merthyr Mawr Road, at the blocked off entrance to the proposed site. Meter was approximately 5m from nearside kerb.
Ty-Wrth-Y-Coed	At junction with New Inn Road, at entrance to proposed site approximately 5m from road.
Claypits Pottery	Approximately 70m north of Claypits Pottery at entrance to proposed site approximately 8m from kerb.

- 1.2.2 At each location the microphone was located on a tripod 1.2 m from the ground inside an approved weather-proof microphone housing and at least 4m from any other reflective surface.
- 1.2.3 The meter was adjusted to log and store the background level,  $L_{A90}$ , in 5 minute periods for the evening survey and 15 minute periods for the day.

Appendix 13.3 Baseline Noise Survey

**1.3 Equipment Used:**

1.3.1 The following items of equipment were used during the test:—

ITEM	Serial No	Certificate Date (if applicable)
(ANPM2) B&K 2260 Investigator Analyser	2520465	<u>UKAS calibration</u> Certificate: 17079 Date: 04/04/08
(ANPC2) B&K 4231 Calibrator	2528149	<u>UKAS calibration</u> Certificate: 17055 Date: 31/03/08

**1.4 Results:**

Table 1 Evening background noise levels

Location	Measurement Number	Start Time (hrs:mins)	L <sub>A90,5mins</sub> (dB)
Island Farm Close	1	21:07	38.7
	2	21:51	36.7
	3	23:05	33.8
Merthyr Mawr Road	1	21:18	59.4
	2	22:01	55.8
	3	23:15	46.4
Ty-Wrth-Y-Coed	1	21:28	39.7
	2	22:13	40.2
	3	23:25	35.2
Claypits Pottery	1	21:40	40.4
	2	22:25	34.6
	3	23:39	35.0

Table 2 Day background noise levels

<b>Location</b>	<b>Measurement Number</b>	<b>Start Time (hrs:mins)</b>	<b>L<sub>A90,15mins</sub> (dB)</b>
Island Farm Close	1	15:44	36.6
	2	17:15	39.6
Merthyr Mawr Road	1	16:06	67.0
	2	17:37	70.0
Ty-Wrth-Y-Coed	1	16:27	38.4
	2	17:58	37.0
Claypits Pottery	1	16:50	46.6
	2	18:19	47.8

Table 3 Summary of lowest background noise levels

<b>Location</b>	<b>Time</b>	<b>L<sub>A90,5mins</sub> (dB)</b>
Island Farm Close	Day	36.6
	Evening	33.8
Merthyr Mawr Road	Day	67.0
	Evening	46.4
Ty-Wrth-Y-Coed	Day	37.0
	Evening	39.7
Claypits Pottery	Day	46.6
	Evening	34.6

Appendix 13.3 Baseline Noise Survey

Measurement Positions

