

A1 Birtley to Coal House

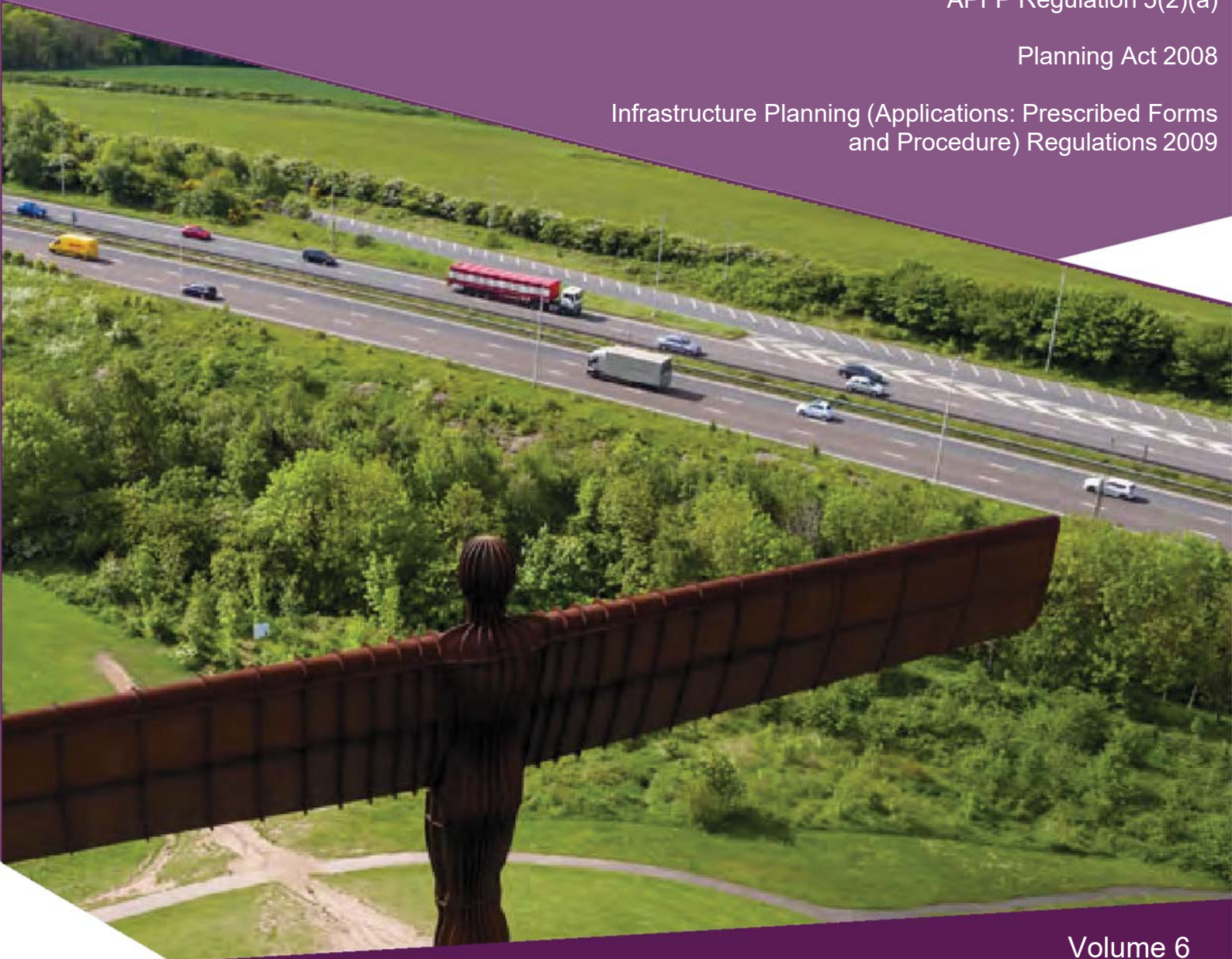
Scheme Number: TR010031

6.3 Environmental Statement – Appendix 11.11 Baseline Noise Survey - Measurement Data

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms
and Procedure) Regulations 2009



Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedures) Regulations 2009**

**A1 Birtley to Coal House
Development Consent Order 20[xx]**

**Environmental Statement -
Appendix**

Regulation Reference:	APFP Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010031
Application Document Reference	TR010031/APP/6.3
Author:	A1 Birtley to Coal House Project Team, Highways England

Version	Date	Status of Version
Rev 0	14 August 2019	Application Issue

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BASELINE NOISE SURVEY, NOISE MEASUREMENT DATA

Table 11-1 – Measurement Location A – Tabulated hourly results, Free-field dB(A)

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
24/04/2017 13:00	01:00:00	74.4	76.6	70.5	84.4
24/04/2017 14:00	01:00:00	74.9	77.2	71.2	84.7
24/04/2017 15:00	01:00:00	73.8	76.1	69.7	84.6
24/04/2017 16:00	01:00:00	74.5	76.9	70.3	84.1
24/04/2017 17:00	01:00:00	74.4	77.2	69.3	85.6
24/04/2017 18:00	01:00:00	72.0	75.1	65.4	81.9
24/04/2017 19:00	01:00:00	70.5	73.8	62.3	84.9
24/04/2017 20:00	01:00:00	70.4	73.9	61.7	80.9
24/04/2017 21:00	01:00:00	72.5	76.0	62.8	85.8
24/04/2017 22:00	01:00:00	67.1	70.9	56.1	84.3
24/04/2017 23:00	01:00:00	65.3	69.4	49.6	88.0
25/04/2017 00:00	01:00:00	63.2	66.4	45.8	84.2
25/04/2017 01:00	01:00:00	62.9	66.4	44.9	81.5
25/04/2017 02:00	01:00:00	63.6	66.9	47.7	80.5
25/04/2017 03:00	01:00:00	66.2	70.4	52.7	79.8
25/04/2017 04:00	01:00:00	69.8	73.5	61.1	80.8
25/04/2017 05:00	01:00:00	74.0	77.0	67.9	82.9
25/04/2017 06:00	01:00:00	75.4	77.7	71.6	86.9
25/04/2017 07:00	01:00:00	75.0	77.4	70.3	92.5
25/04/2017 08:00	01:00:00	74.2	76.9	69.3	81.7
25/04/2017 09:00	01:00:00	73.7	76.3	68.9	89.7

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
25/04/2017 10:00	01:00:00	73.8	76.4	68.8	94.4
25/04/2017 11:00	01:00:00	73.5	76.0	69.1	82.6
25/04/2017 12:00	01:00:00	73.7	76.2	69.2	86.5
25/04/2017 13:00	01:00:00	73.9	76.3	69.9	82.4
25/04/2017 14:00	01:00:00	74.2	76.5	70.3	88.2
25/04/2017 15:00	01:00:00	74.2	76.4	71.0	83.8
25/04/2017 16:00	01:00:00	74.7	76.8	71.4	85.1
25/04/2017 17:00	01:00:00	74.1	76.9	69.1	83.3
25/04/2017 18:00	01:00:00	73.7	76.7	67.6	83.1
25/04/2017 19:00	01:00:00	73.1	76.2	65.4	89.6
25/04/2017 20:00	01:00:00	71.4	74.7	62.7	82.4
25/04/2017 21:00	01:00:00	70.9	74.8	60.3	83.5
25/04/2017 22:00	01:00:00	68.1	72.4	55.6	83.7
25/04/2017 23:00	01:00:00	66.9	70.6	51.3	83.9
26/04/2017 00:00	01:00:00	66.1	69.4	48.2	82.4
26/04/2017 01:00	01:00:00	65.0	67.9	48.6	82.0
26/04/2017 02:00	01:00:00	65.9	68.6	48.1	85.4
26/04/2017 03:00	01:00:00	68.2	72.3	56.0	84.2
26/04/2017 04:00	01:00:00	72.1	75.9	61.8	84.2
26/04/2017 05:00	01:00:00	76.0	78.9	69.5	91.3
26/04/2017 06:00	01:00:00	77.2	79.2	73.5	89.1
26/04/2017 07:00	01:00:00	76.1	78.6	70.9	90.3
26/04/2017 08:00	01:00:00	75.1	77.6	70.0	88.2
26/04/2017 09:00	01:00:00	74.3	76.9	69.1	90.7

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
26/04/2017 10:00	01:00:00	74.3	76.9	69.4	83.4
26/04/2017 11:00	01:00:00	74.2	76.7	69.6	82.7
26/04/2017 12:00	01:00:00	74.6	76.9	70.3	86.0
26/04/2017 13:00	01:00:00	74.5	76.8	70.3	83.6
26/04/2017 14:00	01:00:00	74.5	76.8	70.3	89.6
26/04/2017 15:00	01:00:00	74.8	76.9	71.3	87.2
26/04/2017 16:00	01:00:00	74.7	76.9	71.1	89.0
26/04/2017 17:00	01:00:00	74.3	76.9	69.2	83.5
26/04/2017 18:00	01:00:00	72.5	75.5	66.1	89.8
26/04/2017 19:00	01:00:00	71.5	74.3	65.0	91.1
26/04/2017 20:00	01:00:00	70.9	73.9	63.8	88.7
26/04/2017 21:00	01:00:00	69.0	72.3	60.7	90.8
26/04/2017 22:00	01:00:00	67.7	71.2	57.7	89.1
26/04/2017 23:00	01:00:00	65.1	68.9	50.8	82.9
27/04/2017 00:00	01:00:00	63.8	67.1	48.5	80.2
27/04/2017 01:00	01:00:00	62.3	65.7	47.2	80.3
27/04/2017 02:00	01:00:00	64.4	67.2	50.6	81.6
27/04/2017 03:00	01:00:00	66.9	70.7	54.8	82.4
27/04/2017 04:00	01:00:00	71.0	74.6	62.2	86.3
27/04/2017 05:00	01:00:00	75.4	78.3	69.4	86.2
27/04/2017 06:00	01:00:00	76.7	78.8	73.0	91.6
27/04/2017 07:00	01:00:00	75.8	78.3	71.2	82.8
27/04/2017 08:00	01:00:00	75.0	77.7	69.8	87.1
27/04/2017 09:00	01:00:00	74.2	76.9	69.5	90.9

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
27/04/2017 10:00	01:00:00	74.4	76.9	69.9	83.2
27/04/2017 11:00	01:00:00	74.6	77.0	70.4	88.5
27/04/2017 12:00	01:00:00	74.9	77.3	70.8	88.8
27/04/2017 13:00	01:00:00	75.4	77.4	71.9	99.2
27/04/2017 14:00	01:00:00	75.8	77.8	72.5	93.7
27/04/2017 15:00	01:00:00	76.1	78.0	73.1	94.7
27/04/2017 16:00	01:00:00	75.1	77.4	71.1	84.9
27/04/2017 17:00	01:00:00	74.7	77.0	70.4	84.7
27/04/2017 18:00	01:00:00	73.6	76.5	67.2	84.2
27/04/2017 19:00	01:00:00	72.2	75.2	65.2	87.2
27/04/2017 20:00	01:00:00	71.3	74.7	63.2	82.3
27/04/2017 21:00	01:00:00	70.1	73.6	61.4	89.6
27/04/2017 22:00	01:00:00	68.8	72.3	60.7	85.9
27/04/2017 23:00	01:00:00	66.9	70.6	55.3	81.5
28/04/2017 00:00	01:00:00	65.4	69.1	50.5	80.1
28/04/2017 01:00	01:00:00	65.2	69.0	52.1	80.8
28/04/2017 02:00	01:00:00	66.2	69.5	52.1	89.7
28/04/2017 03:00	01:00:00	67.2	70.8	56.4	80.9
28/04/2017 04:00	01:00:00	70.8	74.4	63.0	81.8
28/04/2017 05:00	01:00:00	74.7	77.5	68.9	88.2
28/04/2017 06:00	01:00:00	75.8	78.0	71.9	90.8
28/04/2017 07:00	01:00:00	75.2	77.7	70.7	84.8
28/04/2017 08:00	01:00:00	73.9	76.6	69.0	85.0
28/04/2017 09:00	01:00:00	74.0	76.6	69.4	82.8

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
28/04/2017 10:00	01:00:00	74.4	76.7	70.2	83.5
28/04/2017 11:00	01:00:00	74.4	76.6	70.7	85.6
28/04/2017 12:00	01:00:00	74.8	76.8	71.6	90.0
28/04/2017 13:00	01:00:00	74.2	76.3	70.8	87.0
28/04/2017 14:00	01:00:00	74.4	76.4	71.3	86.5
28/04/2017 15:00	01:00:00	74.3	76.4	70.7	95.4
28/04/2017 16:00	01:00:00	73.6	75.9	69.5	89.1
28/04/2017 17:00	01:00:00	73.8	76.1	69.5	89.6
28/04/2017 18:00	01:00:00	72.6	75.3	67.5	87.5
28/04/2017 19:00	01:00:00	72.0	74.9	66.3	90.1
28/04/2017 20:00	01:00:00	70.5	73.5	64.4	80.7
28/04/2017 21:00	01:00:00	69.8	72.9	62.3	84.0
28/04/2017 22:00	01:00:00	68.2	71.6	59.6	80.4
28/04/2017 23:00	01:00:00	66.6	70.0	55.9	84.9
29/04/2017 00:00	01:00:00	65.3	68.9	52.3	79.6
29/04/2017 01:00	01:00:00	64.6	67.9	50.6	81.6
29/04/2017 02:00	01:00:00	64.2	67.7	51.9	79.1
29/04/2017 03:00	01:00:00	66.2	69.8	55.1	80.4
29/04/2017 04:00	01:00:00	67.6	71.1	57.8	79.8
29/04/2017 05:00	01:00:00	69.4	72.5	62.4	83.7
29/04/2017 06:00	01:00:00	70.8	73.5	64.2	89.9
29/04/2017 07:00	01:00:00	71.5	74.3	66.2	85.5
29/04/2017 08:00	01:00:00	72.2	74.9	67.5	85.7
29/04/2017 09:00	01:00:00	72.9	75.3	68.7	86.4

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
29/04/2017 10:00	01:00:00	73.5	75.8	69.4	90.9
29/04/2017 11:00	01:00:00	73.1	75.5	69.0	87.9
29/04/2017 12:00	01:00:00	73.3	75.7	69.2	87.9
29/04/2017 13:00	01:00:00	73.0	75.4	68.9	91.2
29/04/2017 14:00	01:00:00	73.0	75.3	69.1	86.3
29/04/2017 15:00	01:00:00	73.4	75.8	69.5	87.8
29/04/2017 16:00	01:00:00	73.7	76.0	69.9	86.6
29/04/2017 17:00	01:00:00	73.0	75.5	68.5	86.5
29/04/2017 18:00	01:00:00	71.9	74.6	66.4	89.9
29/04/2017 19:00	01:00:00	69.4	72.1	62.5	88.6
29/04/2017 20:00	01:00:00	68.7	71.6	61.1	88.3
29/04/2017 21:00	01:00:00	67.5	70.6	59.0	83.6
29/04/2017 22:00	01:00:00	67.3	70.9	58.2	83.4
29/04/2017 23:00	01:00:00	65.7	69.3	54.7	80.2
30/04/2017 00:00	01:00:00	64.9	68.7	52.5	84.4
30/04/2017 01:00	01:00:00	63.9	67.8	48.4	78.7
30/04/2017 02:00	01:00:00	63.9	67.7	50.6	78.3
30/04/2017 03:00	01:00:00	64.6	68.3	51.0	81.0
30/04/2017 04:00	01:00:00	65.2	68.9	51.8	81.8
30/04/2017 05:00	01:00:00	66.5	70.0	56.4	85.4
30/04/2017 06:00	01:00:00	68.1	71.4	60.2	80.3
30/04/2017 07:00	01:00:00	68.9	71.9	62.4	80.7
30/04/2017 08:00	01:00:00	70.7	73.3	65.6	86.1
30/04/2017 09:00	01:00:00	71.5	73.8	67.8	83.5

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
30/04/2017 10:00	01:00:00	72.5	74.9	68.7	86.6
30/04/2017 11:00	01:00:00	72.7	74.9	69.2	86.0
30/04/2017 12:00	01:00:00	72.7	75.1	68.9	84.6
30/04/2017 13:00	01:00:00	72.6	74.9	69.0	85.7
30/04/2017 14:00	01:00:00	72.7	75.1	68.8	84.8
30/04/2017 15:00	01:00:00	73.1	75.5	69.5	83.7
30/04/2017 16:00	01:00:00	72.5	75.1	67.8	85.6
30/04/2017 17:00	01:00:00	71.2	73.7	65.8	88.2
30/04/2017 18:00	01:00:00	70.3	72.8	65.0	88.1
30/04/2017 19:00	01:00:00	69.1	71.9	62.8	83.6
30/04/2017 20:00	01:00:00	68.4	71.0	59.8	95.7
30/04/2017 21:00	01:00:00	67.4	70.5	58.4	84.5
30/04/2017 22:00	01:00:00	66.6	69.8	56.1	92.9
30/04/2017 23:00	01:00:00	64.9	68.5	51.2	90.3
01/05/2017 00:00	01:00:00	62.4	66.2	46.7	80.4
01/05/2017 01:00	01:00:00	63.6	66.2	47.0	94.6
01/05/2017 02:00	01:00:00	63.4	67.0	47.8	79.7
01/05/2017 03:00	01:00:00	64.0	67.1	51.8	87.5
01/05/2017 04:00	01:00:00	64.7	68.3	54.0	83.1
01/05/2017 05:00	01:00:00	65.9	69.5	56.8	78.9
01/05/2017 06:00	01:00:00	67.2	70.4	59.4	88.0
01/05/2017 07:00	01:00:00	68.4	71.4	61.4	88.0
01/05/2017 08:00	01:00:00	69.7	72.6	64.3	80.5
01/05/2017 09:00	01:00:00	71.3	74.1	66.5	83.4

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
01/05/2017 10:00	01:00:00	72.2	74.5	67.9	89.4
01/05/2017 11:00	01:00:00	72.1	74.5	68.2	89.5
01/05/2017 12:00	01:00:00	72.4	74.8	68.6	84.7
01/05/2017 13:00	01:00:00	72.9	75.3	68.8	90.2
01/05/2017 14:00	01:00:00	73.2	75.4	69.5	84.3
01/05/2017 15:00	01:00:00	73.0	75.3	69.1	87.8
01/05/2017 16:00	01:00:00	72.7	75.3	67.8	85.1
01/05/2017 17:00	01:00:00	71.9	74.9	66.1	81.1
01/05/2017 18:00	01:00:00	70.4	73.4	63.5	86.8
01/05/2017 19:00	01:00:00	69.2	72.3	61.4	84.2
01/05/2017 20:00	01:00:00	67.8	70.8	59.5	87.2
01/05/2017 21:00	01:00:00	69.0	72.4	60.8	90.6
01/05/2017 22:00	01:00:00	65.4	69.3	52.2	80.2
01/05/2017 23:00	01:00:00	64.5	66.8	45.5	93.6
02/05/2017 00:00	01:00:00	61.9	65.8	42.5	79.7
02/05/2017 01:00	01:00:00	61.9	65.6	43.7	77.5
02/05/2017 02:00	01:00:00	63.8	67.1	49.9	80.1
02/05/2017 03:00	01:00:00	66.9	70.5	55.2	85.9
02/05/2017 04:00	01:00:00	69.6	73.0	62.2	80.4
02/05/2017 05:00	01:00:00	73.4	76.4	67.9	86.4
02/05/2017 06:00	01:00:00	74.6	76.8	71.0	91.4
02/05/2017 07:00	01:00:00	74.0	76.6	69.4	87.2
02/05/2017 08:00	01:00:00	73.2	76.0	68.3	82.4
02/05/2017 09:00	01:00:00	72.8	75.5	68.0	85.3

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
02/05/2017 10:00	01:00:00	73.3	75.9	68.7	87.9
02/05/2017 11:00	01:00:00	72.9	75.6	68.0	81.6
02/05/2017 12:00	01:00:00	72.8	75.4	68.4	83.6

Table 11-2 – Measurement Location A – Aggregated results summary, Free-field dB(A)

Date	Daytime/evening/ night-time	L _{Aeq,16h} (0700 to 2300)	L _{Aeq,12h} (0700 to 1900)	L _{Aeq,4h} (1900 to 2300)	L _{Aeq,8h} (2300 to 0700)	L _{A10,18h} (0600 to 0000)	L _{AFmax} (2300 to 0700)
24 April 2017	Daytime ¹	73.0	74.1	-	-	74.8	-
	Evening	-	-	74.1	-	-	-
	Night-time	-	-	-	70.2	-	88.0
25 April 2017	Daytime	73.5	74.1	-	-	75.8	-
	Evening	-	-	74.1	-	-	-
	Night-time	-	-	-	72.1	-	91.3
26 April 2017	Daytime	73.8	74.6	-	-	75.7	-
	Evening	-	-	74.6	-	-	-
	Night-time	-	-	-	71.3	-	91.6
27 April 2017	Daytime	74.3	74.6	-	-	76.3	-
	Evening	-	-	74.6	-	-	-
	Night-time	-	-	-	71.0	-	90.8
28 April 2017	Daytime	73.5	75.0	-	-	75.5	-
	Evening	-	-	75.0	-	-	-
	Night-time	-	-	-	67.4	-	89.9
	Daytime	72.1	74.2	-	-	74.0	-

Date	Daytime/evening/ night-time	L _{Aeq,16h} (0700 to 2300)	L _{Aeq,12h} (0700 to 1900)	L _{Aeq,4h} (1900 to 2300)	L _{Aeq,8h} (2300 to 0700)	L _{A10,18h} (0600 to 0000)	L _{AFmax} (2300 to 0700)
29 April 2017	Evening	-	-	74.2	-	-	-
	Night-time	-	-	-	65.6	-	85.4
30 April 2017	Daytime	71.2	72.9	-	-	73.0	-
	Evening	-	-	72.9	-	-	-
	Night-time	-	-	-	64.8	-	94.6
01 May 2017	Daytime	71.2	71.9	-	-	73.0	-
	Evening	-	-	71.9	-	-	-
	Night-time	-	-	-	67.1	-	93.6
Average all days	Daytime	72.8	73.9	-	-	74.8	-
	Evening	-	-	73.9	-	-	-
	Night-time	-	-	-	68.7	-	90.7

¹ Measurement commencing at 13:00 considered representative of full 16/12/18 hour daytime periods.

Table 11-3 – Measurement Location B – Tabulated hourly results, Free-field dB(A)

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
25/04/2017 12:00	01:00:00	67.9	69.5	65.5	73.2
25/04/2017 13:00	01:00:00	67.8	69.2	65.5	84.9
25/04/2017 14:00	01:00:00	67.7	69.1	65.7	78.2
25/04/2017 15:00	01:00:00	67.9	69.4	65.9	80.4
25/04/2017 16:00	01:00:00	67.6	68.9	65.6	81.8
25/04/2017 17:00	01:00:00	68.0	69.4	66.1	78.9
25/04/2017 18:00	01:00:00	66.9	68.4	64.8	73.9

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
25/04/2017 19:00	01:00:00	67.6	69.5	64.7	83.6
25/04/2017 20:00	01:00:00	67.0	68.9	63.9	74.9
25/04/2017 21:00	01:00:00	65.1	67.1	61.8	71.1
25/04/2017 22:00	01:00:00	65.1	67.6	60.2	73.1
25/04/2017 23:00	01:00:00	62.9	66.0	55.5	72.2
26/04/2017 00:00	01:00:00	60.4	63.9	51.3	70.0
26/04/2017 01:00	01:00:00	60.3	64.2	47.7	71.9
26/04/2017 02:00	01:00:00	59.8	63.9	46.5	71.0
26/04/2017 03:00	01:00:00	59.8	63.7	45.7	70.9
26/04/2017 04:00	01:00:00	62.5	65.7	55.3	72.4
26/04/2017 05:00	01:00:00	66.0	68.7	60.2	73.2
26/04/2017 06:00	01:00:00	69.2	70.6	66.5	90.3
26/04/2017 07:00	01:00:00	66.8	68.2	64.1	86.4
26/04/2017 08:00	01:00:00	67.1	68.5	64.1	84.8
26/04/2017 09:00	01:00:00	68.7	69.9	66.9	76.4
26/04/2017 10:00	01:00:00	67.8	69.1	65.8	74.3
26/04/2017 11:00	01:00:00	67.2	68.7	65.0	81.0
26/04/2017 12:00	01:00:00	66.8	68.0	64.9	77.4
26/04/2017 13:00	01:00:00	66.2	67.4	64.5	81.3
26/04/2017 14:00	01:00:00	66.5	67.6	64.7	83.0
26/04/2017 15:00	01:00:00	66.1	67.0	64.2	88.1
26/04/2017 16:00	01:00:00	66.3	67.0	64.6	86.3
26/04/2017 17:00	01:00:00	65.3	66.2	63.7	86.6

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
26/04/2017 18:00	01:00:00	64.9	66.1	62.9	73.2
26/04/2017 19:00	01:00:00	63.3	64.8	60.6	72.3
26/04/2017 20:00	01:00:00	61.9	63.8	58.4	83.1
26/04/2017 21:00	01:00:00	60.6	62.6	56.6	79.2
26/04/2017 22:00	01:00:00	58.9	61.5	53.8	68.1
26/04/2017 23:00	01:00:00	58.2	61.1	51.8	68.0
27/04/2017 00:00	01:00:00	56.0	59.2	47.4	66.3
27/04/2017 01:00	01:00:00	55.1	58.8	43.6	67.0
27/04/2017 02:00	01:00:00	55.4	59.2	43.9	68.5
27/04/2017 03:00	01:00:00	56.4	59.8	47.1	68.4
27/04/2017 04:00	01:00:00	59.1	62.4	51.4	70.7
27/04/2017 05:00	01:00:00	63.5	66.2	58.3	71.4
27/04/2017 06:00	01:00:00	66.8	68.4	64.3	71.6
27/04/2017 07:00	01:00:00	65.1	66.5	63.0	76.9
27/04/2017 08:00	01:00:00	64.7	66.2	62.6	72.8
27/04/2017 09:00	01:00:00	66.7	67.9	64.7	90.5
27/04/2017 10:00	01:00:00	66.4	67.6	64.6	82.1
27/04/2017 11:00	01:00:00	66.0	67.2	64.4	74.0
27/04/2017 12:00	01:00:00	66.2	67.2	64.0	87.2
27/04/2017 13:00	01:00:00	65.6	66.9	63.4	77.6
27/04/2017 14:00	01:00:00	64.9	66.2	62.7	81.7
27/04/2017 15:00	01:00:00	66.6	67.8	64.6	81.2
27/04/2017 16:00	01:00:00	68.0	69.0	66.2	82.0

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
27/04/2017 17:00	01:00:00	67.3	68.6	65.3	73.8
27/04/2017 18:00	01:00:00	68.0	68.9	66.0	88.7
27/04/2017 19:00	01:00:00	66.2	67.7	63.7	83.9
27/04/2017 20:00	01:00:00	64.6	66.0	61.7	90.2
27/04/2017 21:00	01:00:00	64.0	64.8	59.6	90.1
27/04/2017 22:00	01:00:00	61.6	63.8	57.7	70.8
27/04/2017 23:00	01:00:00	60.6	63.1	55.8	75.9
28/04/2017 00:00	01:00:00	58.9	61.7	52.3	74.9
28/04/2017 01:00	01:00:00	57.6	60.8	49.8	68.0
28/04/2017 02:00	01:00:00	57.6	60.8	49.6	70.0
28/04/2017 03:00	01:00:00	57.9	61.2	49.3	68.8
28/04/2017 04:00	01:00:00	59.9	62.7	53.7	67.9
28/04/2017 05:00	01:00:00	63.8	66.2	59.1	72.1
28/04/2017 06:00	01:00:00	66.3	67.8	63.7	85.8
28/04/2017 07:00	01:00:00	65.6	66.8	63.9	70.6
28/04/2017 08:00	01:00:00	66.3	67.3	64.7	84.0
28/04/2017 09:00	01:00:00	65.6	66.8	63.9	84.0
28/04/2017 10:00	01:00:00	65.2	66.3	63.6	73.1
28/04/2017 11:00	01:00:00	64.7	66.0	62.8	71.6
28/04/2017 12:00	01:00:00	64.7	65.9	63.0	74.8
28/04/2017 13:00	01:00:00	64.7	65.8	63.0	79.5
28/04/2017 14:00	01:00:00	64.9	66.1	63.0	76.4
28/04/2017 15:00	01:00:00	64.6	65.9	62.8	75.5

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
28/04/2017 16:00	01:00:00	64.4	65.7	62.6	72.1
28/04/2017 17:00	01:00:00	65.5	65.5	62.8	93.1
28/04/2017 18:00	01:00:00	64.7	65.7	63.0	74.4
28/04/2017 19:00	01:00:00	63.6	64.9	61.2	78.9
28/04/2017 20:00	01:00:00	62.4	64.0	60.1	77.6
28/04/2017 21:00	01:00:00	61.0	62.7	58.0	72.4
28/04/2017 22:00	01:00:00	60.5	62.4	57.3	67.2
28/04/2017 23:00	01:00:00	59.3	61.8	54.6	69.1
29/04/2017 00:00	01:00:00	56.7	59.7	48.5	72.3
29/04/2017 01:00	01:00:00	56.0	59.2	46.4	70.7
29/04/2017 02:00	01:00:00	55.5	58.8	46.3	69.6
29/04/2017 03:00	01:00:00	56.1	59.6	47.3	68.8
29/04/2017 04:00	01:00:00	56.8	59.9	49.2	67.0
29/04/2017 05:00	01:00:00	58.8	61.8	52.3	68.2
29/04/2017 06:00	01:00:00	60.0	62.6	54.9	70.9
29/04/2017 07:00	01:00:00	61.4	63.4	57.5	73.3
29/04/2017 08:00	01:00:00	62.9	63.8	59.1	89.2
29/04/2017 09:00	01:00:00	62.7	64.0	60.4	77.7
29/04/2017 10:00	01:00:00	62.9	63.9	61.1	78.0
29/04/2017 11:00	01:00:00	63.0	64.1	61.3	72.9
29/04/2017 12:00	01:00:00	63.1	64.1	61.2	84.7
29/04/2017 13:00	01:00:00	63.6	64.7	61.6	80.6
29/04/2017 14:00	01:00:00	64.1	65.3	62.5	81.6

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
29/04/2017 15:00	01:00:00	64.3	65.5	62.5	77.5
29/04/2017 16:00	01:00:00	63.7	65.1	61.6	73.7
29/04/2017 17:00	01:00:00	63.6	64.9	61.5	87.3
29/04/2017 18:00	01:00:00	63.1	64.3	60.8	76.4
29/04/2017 19:00	01:00:00	62.4	63.8	59.7	76.7
29/04/2017 20:00	01:00:00	60.8	62.6	57.7	68.8
29/04/2017 21:00	01:00:00	60.6	62.3	56.6	87.0
29/04/2017 22:00	01:00:00	60.9	62.9	57.4	71.4
29/04/2017 23:00	01:00:00	60.8	63.0	57.1	69.6
30/04/2017 00:00	01:00:00	59.6	62.2	54.6	68.3
30/04/2017 01:00	01:00:00	58.1	60.7	52.8	68.0
30/04/2017 02:00	01:00:00	56.5	59.5	50.0	68.0
30/04/2017 03:00	01:00:00	56.9	60.0	49.6	66.3
30/04/2017 04:00	01:00:00	57.2	60.1	51.0	66.3
30/04/2017 05:00	01:00:00	58.3	61.2	52.0	66.5
30/04/2017 06:00	01:00:00	59.8	62.2	55.2	68.2
30/04/2017 07:00	01:00:00	61.2	63.2	57.5	73.3
30/04/2017 08:00	01:00:00	62.9	65.1	58.9	75.0
30/04/2017 09:00	01:00:00	65.1	66.8	62.5	77.1
30/04/2017 10:00	01:00:00	66.5	68.2	64.2	80.0
30/04/2017 11:00	01:00:00	67.1	68.9	64.8	76.7
30/04/2017 12:00	01:00:00	67.8	69.6	65.5	78.4
30/04/2017 13:00	01:00:00	67.5	69.2	65.0	83.9

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
30/04/2017 14:00	01:00:00	68.6	69.7	65.1	90.6
30/04/2017 15:00	01:00:00	67.7	69.0	64.8	86.9
30/04/2017 16:00	01:00:00	67.3	69.0	64.9	75.4
30/04/2017 17:00	01:00:00	66.8	68.5	63.7	89.6
30/04/2017 18:00	01:00:00	64.4	66.2	61.4	84.6
30/04/2017 19:00	01:00:00	63.8	65.5	60.6	76.4
30/04/2017 20:00	01:00:00	62.1	64.1	58.5	74.6
30/04/2017 21:00	01:00:00	60.4	62.5	56.9	82.5
30/04/2017 22:00	01:00:00	60.3	62.6	56.3	69.9
30/04/2017 23:00	01:00:00	59.8	62.4	55.2	70.8
01/05/2017 00:00	01:00:00	57.3	60.4	50.9	68.5
01/05/2017 01:00	01:00:00	55.8	58.9	47.7	71.9
01/05/2017 02:00	01:00:00	56.0	59.2	46.9	67.1
01/05/2017 03:00	01:00:00	56.6	59.8	49.5	67.3
01/05/2017 04:00	01:00:00	58.2	61.2	51.9	68.9
01/05/2017 05:00	01:00:00	59.6	61.9	55.0	67.9
01/05/2017 06:00	01:00:00	61.4	63.6	57.0	69.9
01/05/2017 07:00	01:00:00	62.5	64.7	58.7	87.6
01/05/2017 08:00	01:00:00	63.5	65.5	60.0	78.1
01/05/2017 09:00	01:00:00	65.6	67.2	62.8	82.7
01/05/2017 10:00	01:00:00	66.1	67.6	64.0	73.0
01/05/2017 11:00	01:00:00	66.3	67.7	64.3	78.9
01/05/2017 12:00	01:00:00	66.8	68.0	64.5	88.6

Measurement Start	Measurement Duration (hh:mm:ss)	L_{Aeq,1h}	L_{A10,1h}	L_{A90,1h}	L_{AFmax}
01/05/2017 13:00	01:00:00	66.3	67.8	64.2	72.9
01/05/2017 14:00	01:00:00	66.1	67.5	64.0	74.5
01/05/2017 15:00	01:00:00	64.4	65.9	62.5	75.2
01/05/2017 16:00	01:00:00	64.1	65.3	62.4	74.0
01/05/2017 17:00	01:00:00	65.7	65.8	62.8	92.1
01/05/2017 18:00	01:00:00	64.2	65.4	61.4	91.0
01/05/2017 19:00	01:00:00	62.2	63.9	59.5	73.4
01/05/2017 20:00	01:00:00	61.0	62.8	57.4	80.6
01/05/2017 21:00	01:00:00	60.0	61.9	56.2	75.2
01/05/2017 22:00	01:00:00	60.5	62.8	56.8	71.7
01/05/2017 23:00	01:00:00	57.6	60.3	52.0	67.1
02/05/2017 00:00	01:00:00	55.8	58.6	46.5	78.1
02/05/2017 01:00	01:00:00	53.7	57.5	40.3	66.3
02/05/2017 02:00	01:00:00	53.7	57.4	40.8	67.9
02/05/2017 03:00	01:00:00	55.8	59.1	46.5	66.6
02/05/2017 04:00	01:00:00	58.7	61.6	52.7	70.1
02/05/2017 05:00	01:00:00	61.6	64.1	56.9	69.8
02/05/2017 06:00	01:00:00	64.4	65.9	61.9	71.0
02/05/2017 07:00	01:00:00	63.1	64.1	61.6	68.2
02/05/2017 08:00	01:00:00	63.6	65.3	61.4	72.0
02/05/2017 09:00	01:00:00	64.9	66.1	63.3	73.4
02/05/2017 10:00	01:00:00	64.8	66.1	62.9	72.3
02/05/2017 11:00	01:00:00	65.1	66.1	63.2	87.6

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,1h}	L _{A10,1h}	L _{A90,1h}	L _{AFmax}
02/05/2017 12:00	01:00:00	68.7	66.0	62.7	92.4
02/05/2017 13:00	01:00:00	65.8	66.1	62.4	89.0

Table 11-4 – Measurement location B – aggregated results summary, free-field dB(A)

Date	Daytime/evening/ night-time	L _{Aeq,16h} (0700 to 2300)	L _{Aeq,12h} (0700 to 1900)	L _{Aeq,4h} (1900 to 2300)	L _{Aeq,8h} (2300 to 0700)	L _{A10,18h} (0600 to 0000)	L _{AFmax} (2300 to 0700)
25 April 2017	Daytime ¹	67.3	67.7	-	-	68.6	-
	Evening	-	-	66.3	-	-	-
	Night-time	-	-	-	64	-	90.3
26 April 2017	Daytime	65.9	66.8	-	-	66.6	-
	Evening	-	-	61.5	-	-	-
	Night-time	-	-	-	61	-	71.6
27 April 2017	Daytime	66	66.4	-	-	66.9	-
	Evening	-	-	64.4	-	-	-
	Night-time	-	-	-	61.5	-	85.8
28 April 2017	Daytime	64.5	66.4	-	-	65.4	-
	Evening	-	-	62	-	-	-
	Night-time	-	-	-	57.7	-	72.3
28 April 2017	Daytime	64.5	66.4	-	-	65.4	-
	Evening	-	-	61.2	-	-	-
	Night-time	-	-	-	58.6	-	69.6
30 April 2017	Daytime	65.7	63.3	-	-	66.3	-
	Evening	-	-	61.9	-	-	-

Date	Daytime/evening/ night-time	L _{Aeq,16h} (0700 to 2300)	L _{Aeq,12h} (0700 to 1900)	L _{Aeq,4h} (1900 to 2300)	L _{Aeq,8h} (2300 to 0700)	L _{A10,18h} (0600 to 0000)	L _{AFmax} (2300 to 0700)
	Night-time	-	-	-	58.5	-	71.9
01 May 2017	Daytime	64.6	66.5	-	-	65.2	-
	Evening	-	-	61.0	-	-	-
	Night-time	-	-	-	59.3	-	78.1
Average all days	Daytime	57.1	66.0	-	-	66.1	-
	Evening	-	-	62.6	-	-	-
	Night-time	-	-	-	60.1	-	77.1

¹ Measurement commencing at 12:00 considered representative of full 16/12/18 hour daytime periods.

Table 11-5 – Measurement Location 1 – Tabulated hourly results, Free-field dB(A)

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,30mins}	L _{A10,30mins}	L _{A90,30mins}	L _{AFmax}
02/05/2017 10:30	00:30:00	57.4	59.2	50.5	75.0
24/04/2017 19:29	00:30:00	55.1	55.7	46.0	83.0
02/05/2017 18:58	00:30:00	57.3	58.8	51.6	75.3
25/04/2017 03:30	00:30:00	39.9	41.6	37.5	49.4
03/05/2017 03:30	00:30:00	46.4	48.8	42.3	59.1

Table 11-6 – Measurement Location 2 – Tabulated hourly results, Free-field dB(A)

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,30mins}	L _{A10,30mins}	L _{A90,30mins}	L _{AFmax}
02/05/2017 11:09	00:30:00	55.6	55.8	49.5	76.9
24/04/2017 20:06	00:30:00	62.4	61.0	56.4	91.4
02/05/2017 19:35	00:30:00	53.2	54.3	47.6	73.3

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,30mins}	L _{A10,30mins}	L _{A90,30mins}	L _{AFmax}
25/04/2017 04:06	00:30:00	55.9	57.9	50.9	75.9
03/05/2017 04:08	00:30:00	50.7	53.6	45.4	62.6

Table 11-7 – Measurement Location 3 – Tabulated hourly results, Free-field dB(A)

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,30mins}	L _{A10,30mins}	L _{A90,30mins}	L _{AFmax}
02/05/2017 11:51	00:30:00	58.5	59.6	54.2	81.4
24/04/2017 20:49	00:30:00	55.8	56.4	49.8	77.0
02/05/2017 20:16	00:30:00	55.0	56.6	50.7	68.7
25/04/2017 04:47	00:30:00	50.9	53.3	46.8	62.2
03/05/2017 04:50	00:30:00	53.2	55.6	49.6	61.3

Table 11-8 – Measurement Location 4 – Tabulated hourly results, Free-field dB(A)

Measurement Start	Measurement Duration (hh:mm:ss)	L _{Aeq,30mins}	L _{A10,30mins}	L _{A90,30mins}	L _{AFmax}
02/05/2017 12:29	00:30:00	63.5	53.8	48.6	98.4
24/04/2017 21:27	00:30:00	57.1	59.4	53.5	66.5
02/05/2017 20:55	00:30:00	51.3	53.0	46.1	71.9
25/04/2017 05:23	00:30:00	58.5	60.6	55.1	70.9
03/05/2017 05:28	00:30:00	52.3	52.9	48.4	73.3

Table 11-9 – Measurement Locations 1 to 4 – Aggregated ¹ Results Summary, Free-field dB(A)

Measurement location	Daytime/evening/night-time ¹	L _{Aeq,30mins}	L _{A10.30mins}	L _{AFmax}
MP1 ²	Daytime	57.4	59.2	-
	Evening	56.3	57.3	-
	Night-time	44.3	45.2	59.1
MP2 ³	Daytime	55.6	55.8	-
	Evening	59.9	57.7	-
	Night-time	54.0	55.8	75.9
MP3 ⁴	Daytime	58.5	59.6	-
	Evening	55.4	56.5	-
	Night-time	52.2	54.5	62.2
MP4 ⁵	Daytime	63.5	53.8	-
	Evening	55.1	56.2	-
	Night-time	56.4	56.8	73.3

¹ Two evening and two night-time measurements were undertaken at each location. These have been averaged to give single values for each noise index for each period at each position.

² Measurement location 8m west of the nearside kerb edge of Banesley Lane and at a height of 1.5m [424444, 558446].

³ Measurement location 7m south-west of the nearside kerb edge of Woodford and at a height of 1.5m [425769, 558500].

⁴ Measurement location 4.5m south-east of the nearside kerb edge of Northside, south-west of the A1231 and at a height of 1.5m [428048, 556434].

⁵ Measurement location 110m north-east of the nearside kerb edge of the A1, close to a lane linking Northside Farm, Bowes Incline Hotel and other isolated dwellings with Eighton Road and at a height of 1.5m. [427540, 557178].

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