



***EASTERLY ALTERNATION
INFRASTRUCTURE PROJECT***

***Environmental Impact Assessment
Environmental Statement, Volume III
Appendix 7.8: Community Focus Areas***

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1. Introduction

1.1.1 **Chapter 7: Noise and Vibration, Volume II** of the Environmental Statement considers the impact and effects of the Proposed Development with respect to changes in aircraft noise. As part of the aircraft ‘air’ noise assessment, several locations and communities are described.

1.1.2 This appendix provides a set of references for figures which provide localised presentations of changes in aircraft ‘air’ noise for the following noise metrics as presented in **Table A7.8.1**. A metric index has been provided to assist cross referencing community locations to each metric and figure number as presented in **Table A7.8.3**.

Table A7.8.1 Informative Air Noise Metrics

Metric	Metric Index	Description
L _{Aeq,16hr}	A	The L _{Aeq} for daytime noise measured between 7am-11pm measured over a 92-day summer period from 16 June to 15 September inclusive. For assessment purposes this metric has been prepared using a ‘standard’ modal split of 79% West / 21% East.
N65	B	The number of aircraft events above 65 dB L _{ASmax} measured between 07:00 and 23:00hrs, measured over the 92-day summer period from 16 June to 15 September inclusive. For assessment purposes this metric has been prepared using a ‘standard’ modal split of 79% West / 21% East.
N65 (busy easterly day)	C	This metric has been used to describe the number of aircraft events above 65 dB L _{ASmax} during a busy easterly (07:00-23:00). This metric has been used to help describe how aircraft noise events would be redistributed during periods of easterly winds due to the Proposed Development.

1.1.3 For the primary L_{Aeq,16hr} assessment metric, these figures include the locations where daytime likely significant effects are forecast due to the Proposed Development in 2028 as presented in **Section 7.8** of **Chapter 7: Noise and Vibration, Volume II** of the Environmental Statement. The magnitude of change is also presented in line with the semantic descriptors presented in Chapter 7 as reproduced in **Table A7.8.2**.

Table A7.8.2 Magnitude of Change in Noise Exposure

Change in Noise Exposure (dB)	Magnitude of Change (adverse / beneficial)
0	No change
0.1 to 0.9	Negligible
1.0 to 2.0	Slight
2.0 to 3.0	Minor
3.0 to 6.0	Moderate
>=6.0	Major

1.1.4 In addition to the noise metrics set out in **Table A7.8.3**, figures have been produced for each focus area to allow eligibility boundaries for the following insulation and compensation schemes to be reviewed at a local level:

- Quieter Neighbourhood Scheme (QNS);
- Home Relocation Assistance Scheme (HRAS); and
- Easterly Alternation Noise Insulation Scheme

1.1.5 Details relating to these schemes can be found in **Section 7.7** of **Chapter 7: Noise and Vibration**.

2. Community Focus Areas

Table A7.8.3 Focus Areas, Metrics and Figure Numbers

Focus Area	Community Location	Summer Average $L_{Aeq,16hr}$ With Noise Change and LSE Areas	N65 Noise Change Summer Average Day	N65 Noise Change Busy Easterly Day	Noise Insulation Schemes
E5	Acton	n/a	Figure 7.3_E5-B	Figure 7.3_E5-C	n/a
E9	Acton Green	n/a	Figure 7.3_E9-B	Figure 7.3_E9-C	Figure 7.3_E9-D
E2	Alperton	n/a	Figure 7.3_E2-B	Figure 7.3_E2-C	n/a
E14	Ashford Common	n/a	Figure 7.3_E14-B	Figure 7.3_E14-C	n/a
E18	Beasley's Ait	n/a	n/a	Figure 7.3_E18-C	n/a
W8	Beenham's Heath	n/a	Figure 7.3_W8-B	Figure 7.3_W8-C	n/a
W4	Boveney	Figure 7.3_W4-A	Figure 7.3_W4-B	Figure 7.3_W4-C	n/a
W6	Brands Hill	n/a	Figure 7.3_W6-B	Figure 7.3_W6-C	Figure 7.3_W6-D
W3	Bray Wick	Figure 7.3_W3-A	Figure 7.3_W3-B	Figure 7.3_W3-C	n/a
W8	Braywoodside	n/a	Figure 7.3_W8-B	Figure 7.3_W8-C	n/a
E9	Brentford	n/a	Figure 7.3_E9-B	Figure 7.3_E9-C	Figure 7.3_E9-D
E9	Brentford End	n/a	Figure 7.3_E9-B	Figure 7.3_E9-C	Figure 7.3_E9-D
W10	Clewer Green	Figure 7.3_W10-A	Figure 7.3_W10-B	Figure 7.3_W10-C	n/a
W4	Clewer New Town	Figure 7.3_W4-A	Figure 7.3_W4-B	Figure 7.3_W4-C	n/a
W4	Clewer Village	Figure 7.3_W4-A	Figure 7.3_W4-B	Figure 7.3_W4-C	n/a

Focus Area	Community Location	Summer Average $L_{Aeq,16hr}$ With Noise Change and LSE Areas	N65 Noise Change Summer Average Day	N65 Noise Change Busy Easterly Day	Noise Insulation Schemes
W1	Cold Harbour	n/a	n/a	Figure 7.3_W1-C	n/a
W6	Colnbrook	n/a	Figure 7.3_W6-B	Figure 7.3_W6-C	Figure 7.3_W6-D
E17	Copse Hill	n/a	n/a	Figure 7.3_E17-C	n/a
E7	Cranford	Figure 7.3_E7-A	Figure 7.3_E7-B	Figure 7.3_E7-C	Figure 7.3_E7-D
E17	Crooked Billet	n/a	n/a	Figure 7.3_E17-C	n/a
W5	Datchet	Figure 7.3_W5-A	Figure 7.3_W5-B	Figure 7.3_W5-C	Figure 7.3_W5-D
W4	Dedworth	Figure 7.3_W4-A	Figure 7.3_W4-B	Figure 7.3_W4-C	n/a
E4	Dormer's Wells	Figure 7.3_E4-A	Figure 7.3_E4-B	Figure 7.3_E4-C	n/a
W4	Dorney	Figure 7.3_W4-A	Figure 7.3_W4-B	Figure 7.3_W4-C	n/a
E5	Ealing	n/a	Figure 7.3_E5-B	Figure 7.3_E5-C	n/a
E10	East Bedfont	Figure 7.3_E10-A	Figure 7.3_E10-B	Figure 7.3_E10-C	Figure 7.3_E10-D
E19	East Molesey	n/a	n/a	Figure 7.3_E19-C	n/a
E13	East Sheen	n/a	Figure 7.3_E13-B	Figure 7.3_E13-C	Figure 7.3_E13-D
E21	Esher	n/a	n/a	Figure 7.3_E21-C	n/a
W5	Eton	Figure 7.3_W5-A	Figure 7.3_W5-B	Figure 7.3_W5-C	Figure 7.3_W5-D
W4	Eton Wick	Figure 7.3_W4-A	Figure 7.3_W4-B	Figure 7.3_W4-C	n/a
E11	Feltham	Figure 7.3_E11-A	Figure 7.3_E11-B	Figure 7.3_E11-C	Figure 7.3_E11-D
E14	Felthamhill	n/a	Figure 7.3_E14-B	Figure 7.3_E14-C	n/a

Focus Area	Community Location	Summer Average $L_{Aeq,16hr}$ With Noise Change and LSE Areas	N65 Noise Change Summer Average Day	N65 Noise Change Busy Easterly Day	Noise Insulation Schemes
W3	Fifield	Figure 7.3_W3-A	Figure 7.3_W3-B	Figure 7.3_W3-C	n/a
E1	Greenford	n/a	Figure 7.3_E1-B	Figure 7.3_E1-C	n/a
E9	Grove Park	n/a	Figure 7.3_E9-B	Figure 7.3_E9-C	Figure 7.3_E9-D
E9	Gunnersbury	n/a	Figure 7.3_E9-B	Figure 7.3_E9-C	Figure 7.3_E9-D
E16	Ham	n/a	Figure 7.3_E16-B	Figure 7.3_E16-C	n/a
E15	Hampton	Figure 7.3_E15-A	Figure 7.3_E15-B	Figure 7.3_E15-C	n/a
E19	Hampton Court	n/a	n/a	Figure 7.3_E19-C	n/a
E15	Hampton Hill	Figure 7.3_E15-A	Figure 7.3_E15-B	Figure 7.3_E15-C	n/a
E20	Hampton Wick	n/a	n/a	Figure 7.3_E20-C	n/a
E4	Hanwell	Figure 7.3_E4-A	Figure 7.3_E4-B	Figure 7.3_E4-C	n/a
E14	Hanworth	n/a	Figure 7.3_E14-B	Figure 7.3_E14-C	n/a
W1	Hare Hatch	n/a	n/a	Figure 7.3_W1-C	n/a
E7	Harlington	Figure 7.3_E7-A	Figure 7.3_E7-B	Figure 7.3_E7-C	Figure 7.3_E7-D
E6	Harmondsworth	Figure 7.3_E6-A	Figure 7.3_E6-B	Figure 7.3_E6-C	Figure 7.3_E6-D
E11	Hatton	Figure 7.3_E11-A	Figure 7.3_E11-B	Figure 7.3_E11-C	Figure 7.3_E11-D
W8	Hawthorn Hill	n/a	Figure 7.3_W8-B	Figure 7.3_W8-C	n/a
E3	Hayes	n/a	Figure 7.3_E3-B	Figure 7.3_E3-C	n/a
E8	Heston	Figure 7.3_E8-A	Figure 7.3_E8-B	Figure 7.3_E8-C	Figure 7.3_E8-D

Focus Area	Community Location	Summer Average $L_{Aeq,16hr}$ With Noise Change and LSE Areas	N65 Noise Change Summer Average Day	N65 Noise Change Busy Easterly Day	Noise Insulation Schemes
E21	Hinchley Wood	n/a	n/a	Figure 7.3_E21-C	n/a
W3	Holyport	Figure 7.3_W3-A	Figure 7.3_W3-B	Figure 7.3_W3-C	n/a
W12	Horton	Figure 7.3_W12-A	Figure 7.3_W12-B	Figure 7.3_W12-C	Figure 7.3_W12-D
E12	Hounslow	Figure 7.3_E12-A	Figure 7.3_E12-B	Figure 7.3_E12-C	Figure 7.3_E12-D
E11	Hounslow Heath	Figure 7.3_E11-A	Figure 7.3_E11-B	Figure 7.3_E11-C	Figure 7.3_E11-D
E7	Hounslow West	Figure 7.3_E7-A	Figure 7.3_E7-B	Figure 7.3_E7-C	Figure 7.3_E7-D
W7	Hungerford	n/a	n/a	Figure 7.3_W7-C	n/a
E12	Isleworth	Figure 7.3_E12-A	Figure 7.3_E12-B	Figure 7.3_E12-C	Figure 7.3_E12-D
W8	Jealott's Hill	n/a	Figure 7.3_W8-B	Figure 7.3_W8-C	n/a
E14	Kempton Park	n/a	Figure 7.3_E14-B	Figure 7.3_E14-C	n/a
E9	Kew	n/a	Figure 7.3_E9-B	Figure 7.3_E9-C	Figure 7.3_E9-D
W1	Kiln Green	n/a	n/a	Figure 7.3_W1-C	n/a
E16	Kingston Hill	n/a	Figure 7.3_E16-B	Figure 7.3_E16-C	n/a
E20	Kingston upon Thames	n/a	n/a	Figure 7.3_E20-C	n/a
E17	Kingston Vale	n/a	n/a	Figure 7.3_E17-C	n/a
E8	Lampton	Figure 7.3_E8-A	Figure 7.3_E8-B	Figure 7.3_E8-C	Figure 7.3_E8-D
W6	Langley	n/a	Figure 7.3_W6-B	Figure 7.3_W6-C	Figure 7.3_W6-D
W2	Littlefield Green	n/a	Figure 7.3_W2-B	Figure 7.3_W2-C	n/a

Focus Area	Community Location	Summer Average $L_{Aeq,16hr}$ With Noise Change and LSE Areas	N65 Noise Change Summer Average Day	N65 Noise Change Busy Easterly Day	Noise Insulation Schemes
E6	Longford	Figure 7.3_E6-A	Figure 7.3_E6-B	Figure 7.3_E6-C	Figure 7.3_E6-D
E14	Lower Feltham	n/a	Figure 7.3_E14-B	Figure 7.3_E14-C	n/a
E21	Lower Green	n/a	n/a	Figure 7.3_E21-C	n/a
W3	Moneyrow Green	Figure 7.3_W3-A	Figure 7.3_W3-B	Figure 7.3_W3-C	n/a
W5	Myrke	Figure 7.3_W5-A	Figure 7.3_W5-B	Figure 7.3_W5-C	Figure 7.3_W5-D
E20	Norbiton	n/a	n/a	Figure 7.3_E20-C	n/a
E2	North Acton	n/a	Figure 7.3_E2-B	Figure 7.3_E2-C	n/a
E11	North Feltham	Figure 7.3_E11-A	Figure 7.3_E11-B	Figure 7.3_E11-C	Figure 7.3_E11-D
E7	North Hyde	Figure 7.3_E7-A	Figure 7.3_E7-B	Figure 7.3_E7-C	Figure 7.3_E7-D
E13	North Sheen	n/a	Figure 7.3_E13-B	Figure 7.3_E13-C	Figure 7.3_E13-D
E1	Northolt	n/a	Figure 7.3_E1-B	Figure 7.3_E1-C	n/a
E8	Norwood Green	Figure 7.3_E8-A	Figure 7.3_E8-B	Figure 7.3_E8-C	Figure 7.3_E8-D
W8	Nuptown	n/a	Figure 7.3_W8-B	Figure 7.3_W8-C	n/a
W9	Nuptown	Figure 7.3_W9-A	Figure 7.3_W9-B	Figure 7.3_W9-C	n/a
W4	Oakley Green	Figure 7.3_W4-A	Figure 7.3_W4-B	Figure 7.3_W4-C	n/a
W11	Old Windsor	Figure 7.3_W11-A	Figure 7.3_W11-B	Figure 7.3_W11-C	Figure 7.3_W11-D
E8	Osterley	Figure 7.3_E8-A	Figure 7.3_E8-B	Figure 7.3_E8-C	Figure 7.3_E8-D
W2	Paley Street	n/a	Figure 7.3_W2-B	Figure 7.3_W2-C	n/a

Focus Area	Community Location	Summer Average $L_{Aeq,16hr}$ With Noise Change and LSE Areas	N65 Noise Change Summer Average Day	N65 Noise Change Busy Easterly Day	Noise Insulation Schemes
E2	Perivale	n/a	Figure 7.3_E2-B	Figure 7.3_E2-C	n/a
E13	Petersham	n/a	Figure 7.3_E13-B	Figure 7.3_E13-C	Figure 7.3_E13-D
W6	Poyle	n/a	Figure 7.3_W6-B	Figure 7.3_W6-C	Figure 7.3_W6-D
E17	Putney Vale	n/a	n/a	Figure 7.3_E17-C	n/a
E13	Richmond upon Thames	n/a	Figure 7.3_E13-B	Figure 7.3_E13-C	Figure 7.3_E13-D
E20	Seething Wells	n/a	n/a	Figure 7.3_E20-C	n/a
W7	Shurlock Row	n/a	n/a	Figure 7.3_W7-C	n/a
E6	Sipson	Figure 7.3_E6-A	Figure 7.3_E6-B	Figure 7.3_E6-C	Figure 7.3_E6-D
E5	South Acton	n/a	Figure 7.3_E5-B	Figure 7.3_E5-C	n/a
E4	Southall	Figure 7.3_E4-A	Figure 7.3_E4-B	Figure 7.3_E4-C	n/a
W10	Spital	Figure 7.3_W10-A	Figure 7.3_W10-B	Figure 7.3_W10-C	n/a
E8	Spring Grove	Figure 7.3_E8-A	Figure 7.3_E8-B	Figure 7.3_E8-C	Figure 7.3_E8-D
W10	St Leonardshill	Figure 7.3_W10-A	Figure 7.3_W10-B	Figure 7.3_W10-C	n/a
E13	St Margarets	n/a	Figure 7.3_E13-B	Figure 7.3_E13-C	Figure 7.3_E13-D
E10	Stanwell	Figure 7.3_E10-A	Figure 7.3_E10-B	Figure 7.3_E10-C	Figure 7.3_E10-D
W12	Stanwell Moor	Figure 7.3_W12-A	Figure 7.3_W12-B	Figure 7.3_W12-C	Figure 7.3_W12-D
E2	Stonebridge	n/a	Figure 7.3_E2-B	Figure 7.3_E2-C	n/a
E9	Strand on the Green	n/a	Figure 7.3_E9-B	Figure 7.3_E9-C	Figure 7.3_E9-D

Focus Area	Community Location	Summer Average $L_{Aeq,16hr}$ With Noise Change and LSE Areas	N65 Noise Change Summer Average Day	N65 Noise Change Busy Easterly Day	Noise Insulation Schemes
W2	Stud Green	n/a	Figure 7.3_W2-B	Figure 7.3_W2-C	n/a
E14	Sunbury Common	n/a	Figure 7.3_E14-B	Figure 7.3_E14-C	n/a
E18	Sunbury-on-Thames	n/a	n/a	Figure 7.3_E18-C	n/a
W11	Sunnymeads	Figure 7.3_W11-A	Figure 7.3_W11-B	Figure 7.3_W11-C	Figure 7.3_W11-D
E20	Surbiton	n/a	n/a	Figure 7.3_E20-C	n/a
W6	Sutton	n/a	Figure 7.3_W6-B	Figure 7.3_W6-C	Figure 7.3_W6-D
E15	Teddington	Figure 7.3_E15-A	Figure 7.3_E15-B	Figure 7.3_E15-C	n/a
E21	Thames Ditton	n/a	n/a	Figure 7.3_E21-C	n/a
W1	The Holt	n/a	n/a	Figure 7.3_W1-C	n/a
E2	Tokyngham	n/a	Figure 7.3_E2-B	Figure 7.3_E2-C	n/a
W2	Touchen-end	n/a	Figure 7.3_W2-B	Figure 7.3_W2-C	n/a
E13	Twickenham	n/a	Figure 7.3_E13-B	Figure 7.3_E13-C	Figure 7.3_E13-D
E18	Upper Halliford	n/a	n/a	Figure 7.3_E18-C	n/a
W5	Upton	Figure 7.3_W5-A	Figure 7.3_W5-B	Figure 7.3_W5-C	Figure 7.3_W5-D
W5	Upton Park	Figure 7.3_W5-A	Figure 7.3_W5-B	Figure 7.3_W5-C	Figure 7.3_W5-D
W1	Waltham St Lawrence	n/a	n/a	Figure 7.3_W1-C	n/a
W3	Water Oakley	Figure 7.3_W3-A	Figure 7.3_W3-B	Figure 7.3_W3-C	n/a
E5	West Acton	n/a	Figure 7.3_E5-B	Figure 7.3_E5-C	n/a

Focus Area	Community Location	Summer Average $L_{Aeq,16hr}$ With Noise Change and LSE Areas	N65 Noise Change Summer Average Day	N65 Noise Change Busy Easterly Day	Noise Insulation Schemes
E10	West Bedfont	Figure 7.3_E10-A	Figure 7.3_E10-B	Figure 7.3_E10-C	Figure 7.3_E10-D
E4	West Ealing	Figure 7.3_E4-A	Figure 7.3_E4-B	Figure 7.3_E4-C	n/a
W7	West End	n/a	n/a	Figure 7.3_W7-C	n/a
E19	West Molesey	n/a	n/a	Figure 7.3_E19-C	n/a
E21	Weston Green	n/a	n/a	Figure 7.3_E21-C	n/a
W2	White Waltham	n/a	Figure 7.3_W2-B	Figure 7.3_W2-C	n/a
E12	Whitton	Figure 7.3_E12-A	Figure 7.3_E12-B	Figure 7.3_E12-C	Figure 7.3_E12-D
E17	Wimbledon Common	n/a	n/a	Figure 7.3_E17-C	n/a
W5	Windsor	Figure 7.3_W5-A	Figure 7.3_W5-B	Figure 7.3_W5-C	Figure 7.3_W5-D
W9	Winkfield Street	Figure 7.3_W9-A	Figure 7.3_W9-B	Figure 7.3_W9-C	n/a
E12	Woodlands	Figure 7.3_E12-A	Figure 7.3_E12-B	Figure 7.3_E12-C	Figure 7.3_E12-D
W12	Wraysbury	Figure 7.3_W12-A	Figure 7.3_W12-B	Figure 7.3_W12-C	Figure 7.3_W12-D