

June 2023

London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents
5.03 Chapter 16 Noise and Vibration Figures 16.83 - 16.88

Application Document Ref: TR020001/APP/5.03

APFP Regulation: 5(2)(a)

The Planning Act 2008

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

London Luton Airport Expansion Development Consent Order 202x

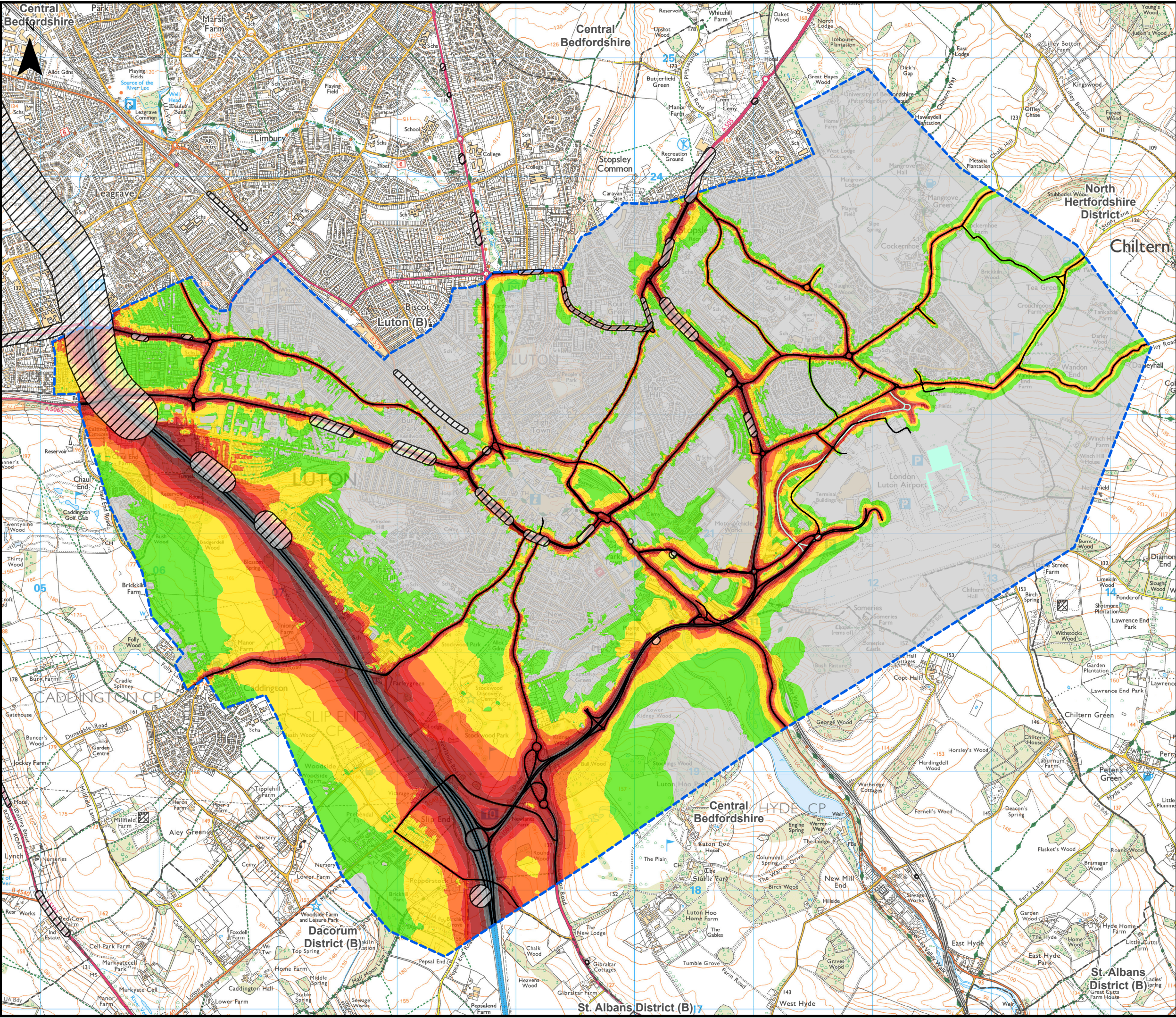
5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.83 – 16.88

Regulation number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR020001
Document Reference:	TR020001/APP/5.03
Author:	Luton Rising

Version	Date	Status of Version
Issue 01	February 2023	Application issue
Revision 01	June 2023	Additional submissions (updated in response to Rule 9 letter)

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All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

Legend


- Local Authority Boundaries
- Surface access noise study area
- Proposed Terminal - Assessment Phase 2b
- Road Traffic Noise Important Area
- Road
- Airport Access Road

Surface Access Noise Contours in Decibels (dB) (2043 Do-Something Daytime LAeq,16h at 4m free-field)

- Below LOAEL
- LOAEL - ≤ 55
- > 55 - ≤ 60
- > 60 - ≤ SOAEL
- > SOAEL - ≤ 65
- > 65 - ≤ 70
- > 70 - ≤ UAEL
- Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 50 dB
Significant Observed Adverse Effect Level (SOAEL) = 63 dB
Unacceptable Adverse Effect Level (UAEL) = 74 dB

Additional submissions (updated in response to Rule 9 letter)	HW	CSH	CS	16/06/23	P02
First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.



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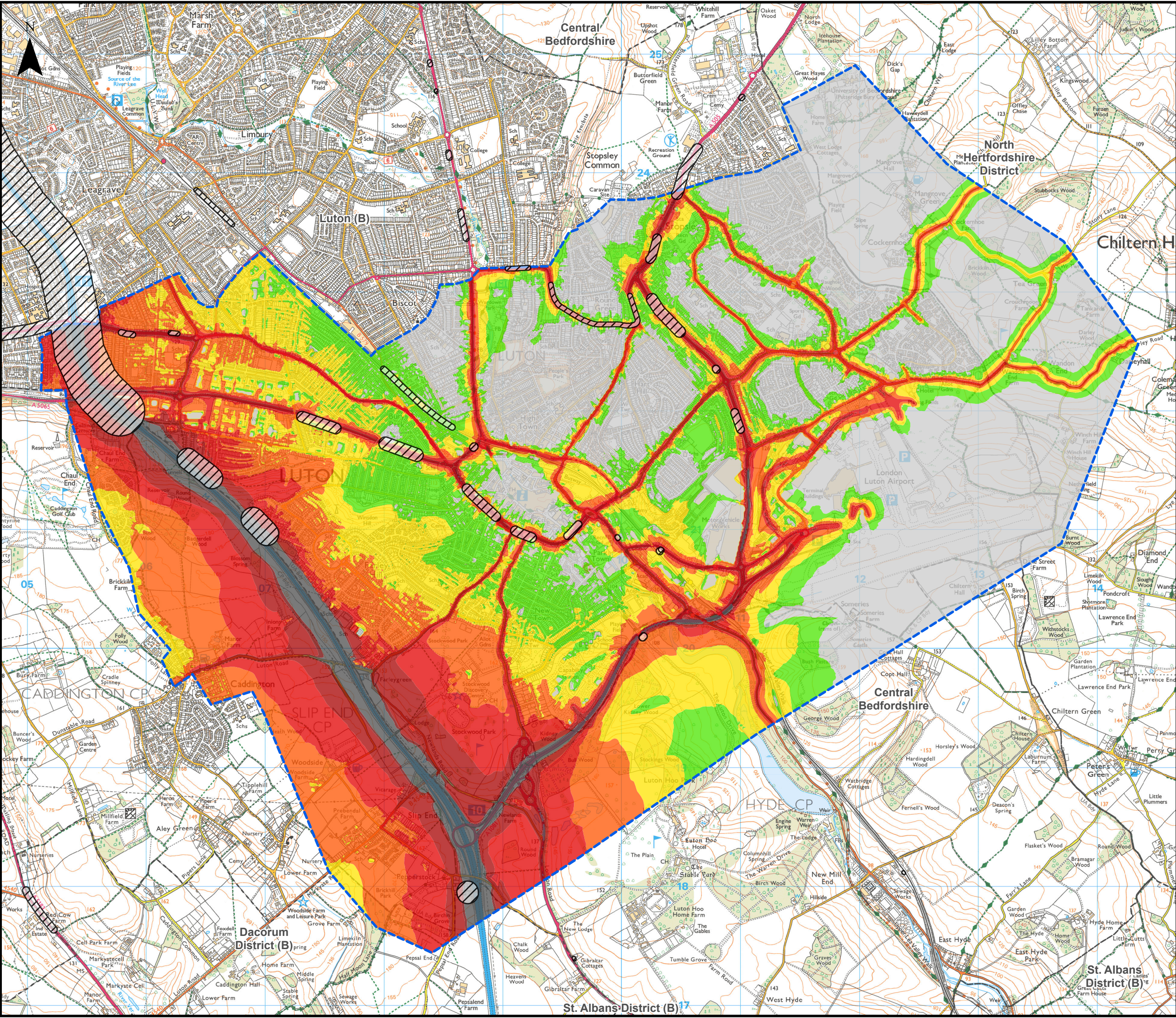
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Drawing Title
Figure 16.83
Extent of 2043 Do-Minimum Daytime LAeq,16h
Surface Access Noise Contours

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)	Suitability			
Drawn	Checked	Approved	Date	Scale	Size
HW	CSH	CS	16/06/23	1:30,000	A3

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0083	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Local Authority Boundaries
- Surface access noise study area
- Proposed Terminal - Assessment Phase 2b
- Road Traffic Noise Important Area
- Road
- Airport Access Road

Surface Access Noise Contours in Decibels (dB) (2043 Do-Something Night-time LAeq,8h at 4m free-field)

Below LOAEL
LOAEL - ≤ 45
> 45 - ≤ 50
> 50 - ≤ SOAEL
> 55 - ≤ 60
> 60 - ≤ 65
> 65 - ≤ UAEL
Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 40 dB
Significant Observed Adverse Effect Level (SOAEL) = 55 dB
Unacceptable Adverse Effect Level (UAEL) = 66 dB

Additional submissions (updated in response to Rule 9 letter)	HW	CSh	CS	16/06/23	P02
First Issue	LP	CSh	CS	31/01/23	P01
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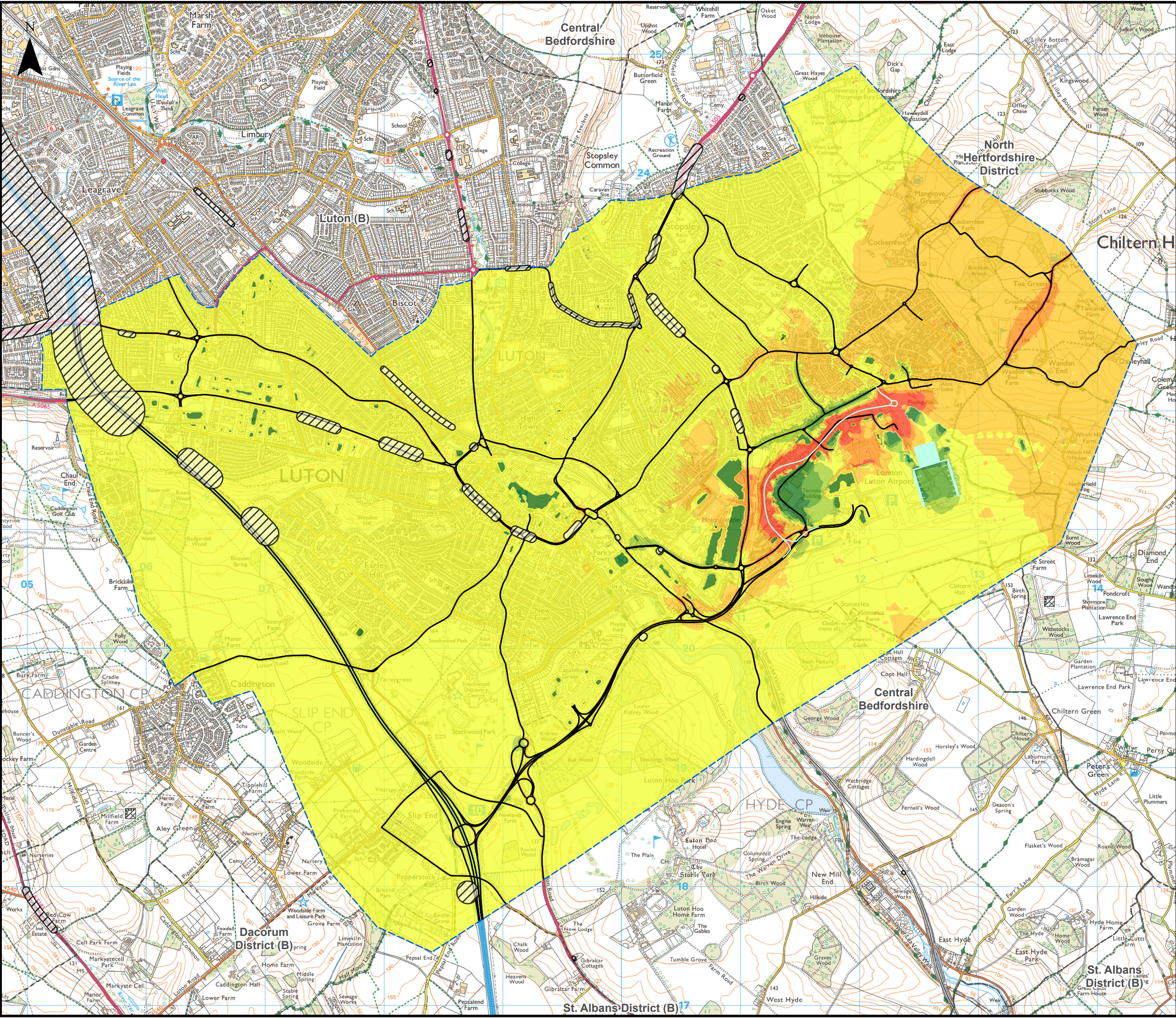
Figure 16.84
Extent of 2043 Do-Something Night-time LAeq,8h Surface Access Noise Contours

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
HW	CSh	CS	16/06/23	1:30,000	A3

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0084	P02

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Legend

- Local Authority Boundaries
- Surface access noise study area
- Proposed Terminal - Assessment Phase 2b
- Road Traffic Noise Important Area
- Road
- Airport Access Road

Change in 2043 Do-Something and Do-Minimum Daytime LAeq,16h Surface Access Noise Contours in Decibels (dB)

Noise Decrease

- 5.0 dB or more
- 3.0 - 4.9 dB
- 1.0 - 2.9 dB
- 0.1 - 0.9 dB

Noise Increase

- 0.1 - 0.9 dB
- 1.0 - 2.9 dB
- 3.0 - 4.9 dB
- 5.0 dB or more

Additional submissions (updated in response to Rule 9 letter)	HW	CSh	CS	16/06/23	P02
First Issue	LP	CSh	CS	31/01/23	P01
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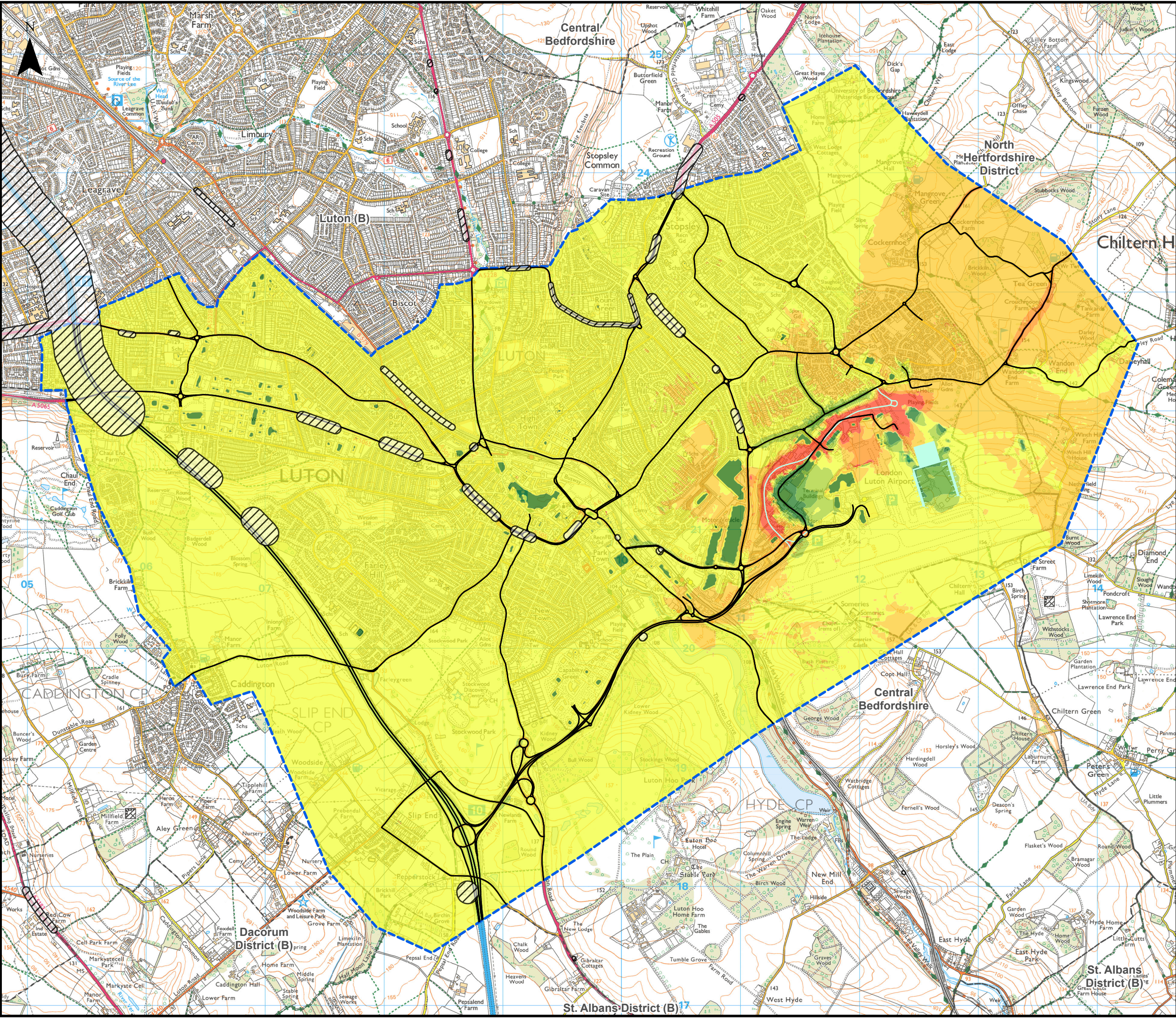
Figure 16.85
Change in 2043 Do-Something - Do-Minimum Daytime LAeq,16h Surface Access Noise Contours

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
HW	CSh	CS	16/06/23	1:30,000	A3

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0085	P02

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Legend

- Local Authority Boundaries
- Surface access noise study area
- Proposed Terminal - Assessment Phase 2b
- Road Traffic Noise Important Area
- Road
- Airport Access Road

Change in 2043 Do-Something and Do-Minimum Night-time LAeq,8h Surface Access Noise Contours in Decibels (dB)

Noise Decrease

- 5.0 dB or more
- 3.0 - 4.9 dB
- 1.0 - 2.9 dB
- 0.1 - 0.9 dB

Noise Increase

- 0.1 - 0.9 dB
- 1.0 - 2.9 dB
- 3.0 - 4.9 dB
- 5.0 dB or more

Additional submissions (updated in response to Rule 9 letter)	HW	CSh	CS	16/06/23	P02
First Issue	LP	CSh	CS	31/01/23	P01
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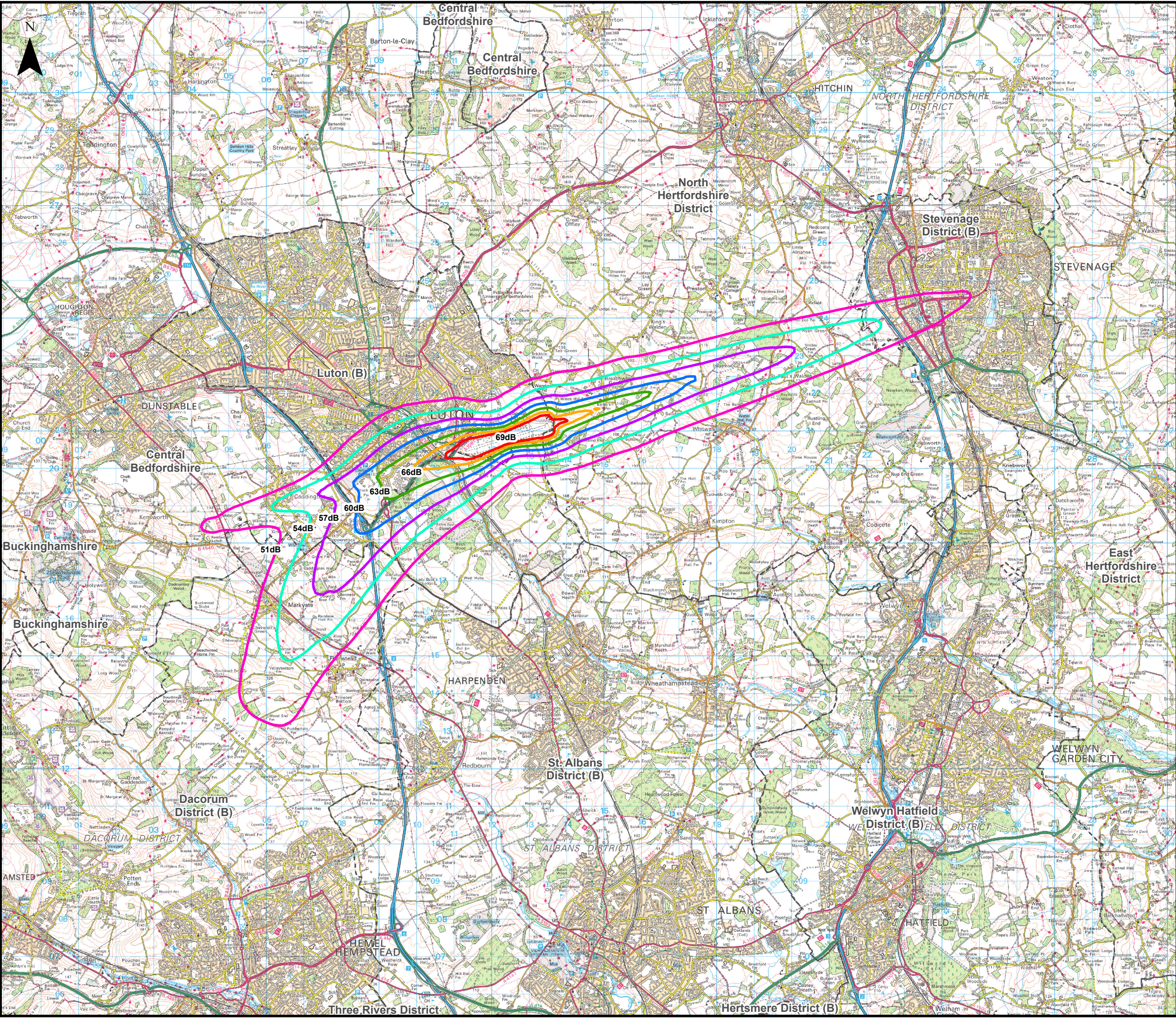
Figure 16.86
Change in 2043 Do-Something - Do-Minimum Night-time LAeq,8h Surface Access Noise Contours

Purpose of issue			Suitability		
Additional submissions (updated in response to Rule 9 letter)			S2		
Drawn	Checked	Approved	Date	Scale	Size
HW	CSh	CS	16/06/23	1:30,000	A3

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0086	P02

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Legend

Local Authority Boundaries

Air Noise Contours in Decibels (dB) (2019 Consented Daytime LAeq,16h)

- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 54dB
- 57dB
- 60dB
- 63dB - Significant Observed Adverse Effect Level (SOAEL)
- 66dB
- 69dB - Unacceptable Adverse Effect Level (UAEL)

Additional submissions (updated in response to Rule 9 letter)	HW	CSH	CS	12/06/23	P02
First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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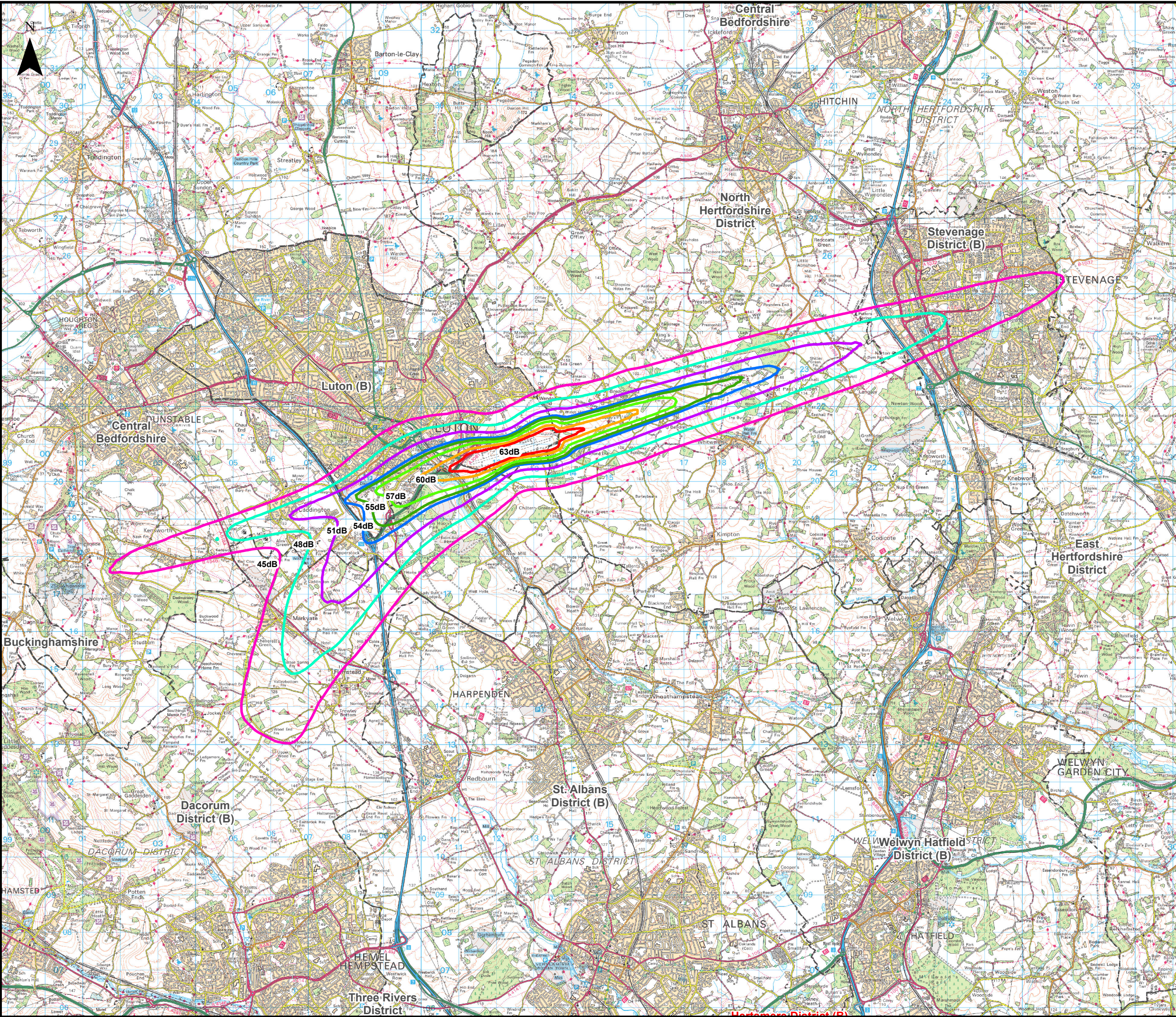
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Drawing Title
Figure 16.87
Extent of 2019 Consented Daytime LAeq,16h
Air Noise Contours

Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
HW	CSH	CS	12/06/23	1:95,000	A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Drawing Number LLADCO-3C-AEC-00-00-DR-YE-0087	Revision P02
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Legend

Local Authority Boundaries

Air Noise Contours in Decibels (dB) (2019 Consented Night-time LAeq,8h)

- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 48dB
- 51dB
- 54dB
- 55dB - Significant Observed Adverse Effect Level (SOAEL)
- 57dB
- 60dB
- 63dB - Unacceptable Adverse Effect Level (UAEI)

Additional submissions (updated in response to Rule 9 letter)	HW	CSH	CS	12/06/23	P02
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Figure 16.88
Extent of 2019 Consented Night-time LAeq,8h
Air Noise Contours

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)	Suitability
Drawn	Checked	Approved
HW	CSH	CS
Date	12/06/23	Scale
		1:95,000
Size	A3	

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0088	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type - Discp. - Number	