

February 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 16.41 - 16.60

Application Document Ref: TR020001/APP/5.03

APFP Regulation: 5(2)(a)

The Planning Act 2008

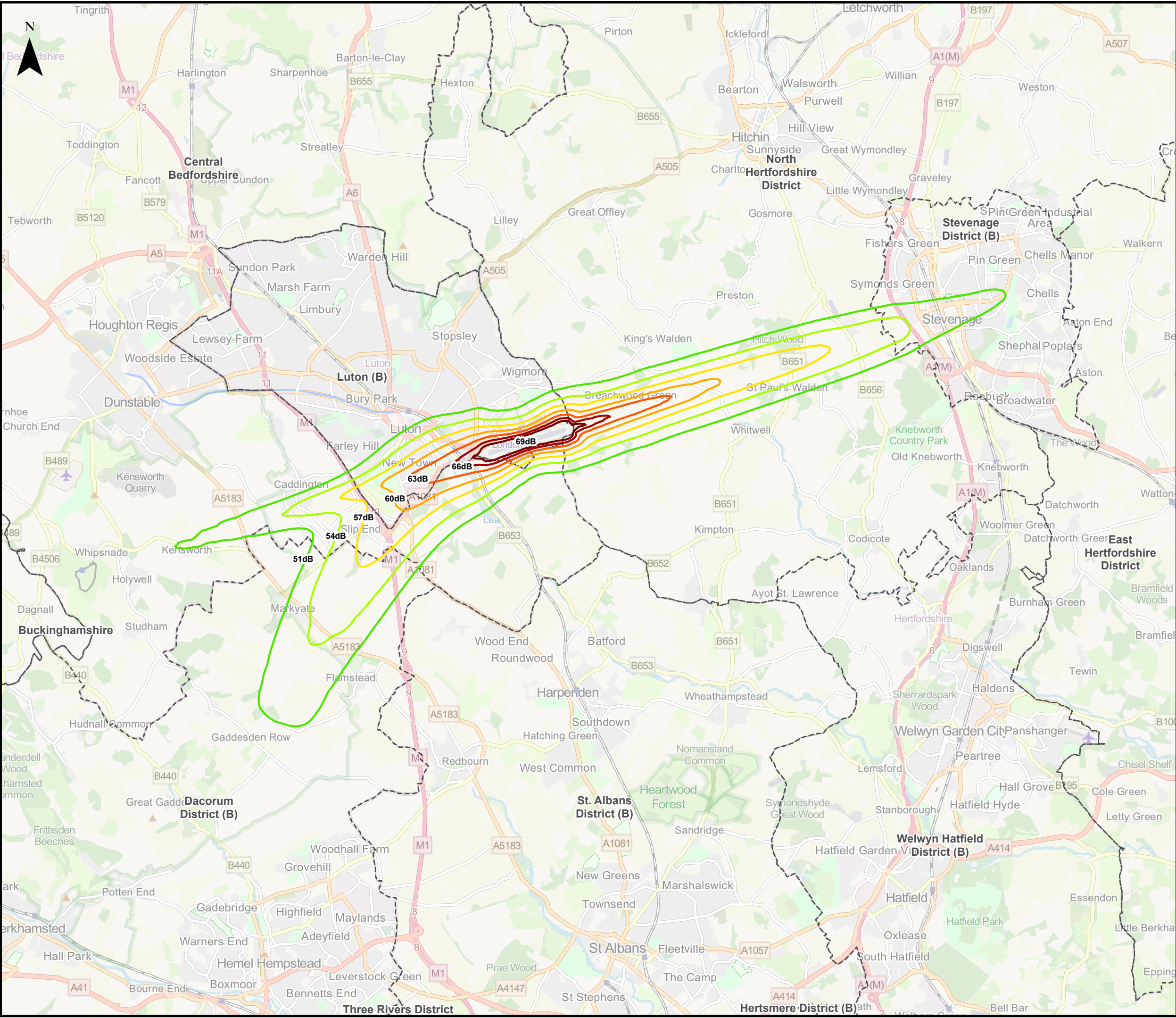
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

London Luton Airport Expansion Development Consent Order 202x

5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.41 – 16.60

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



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Legend

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2039 Do-Something 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)

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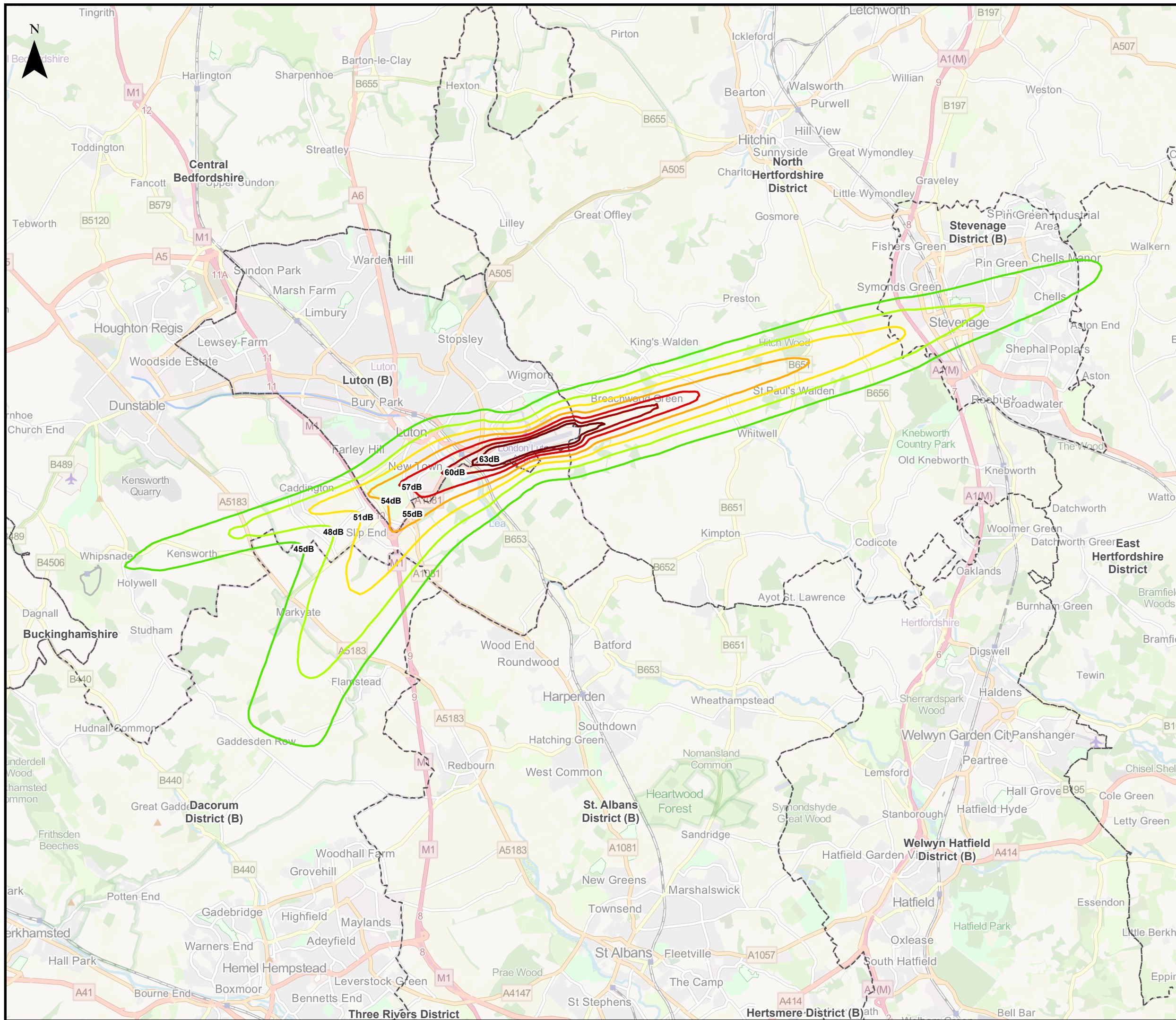
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Drawing Title
**Figure 16.41
 Extent of 2039 Do-Something Daytime LAeq,16h
 Air Noise Contours**

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn LP	Checked CSH	Approved CS	Date 31/01/23	Scale 1:95,000	Size 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-0041	Revision P01
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Legend

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2039 Do-Something 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 (UAEL)

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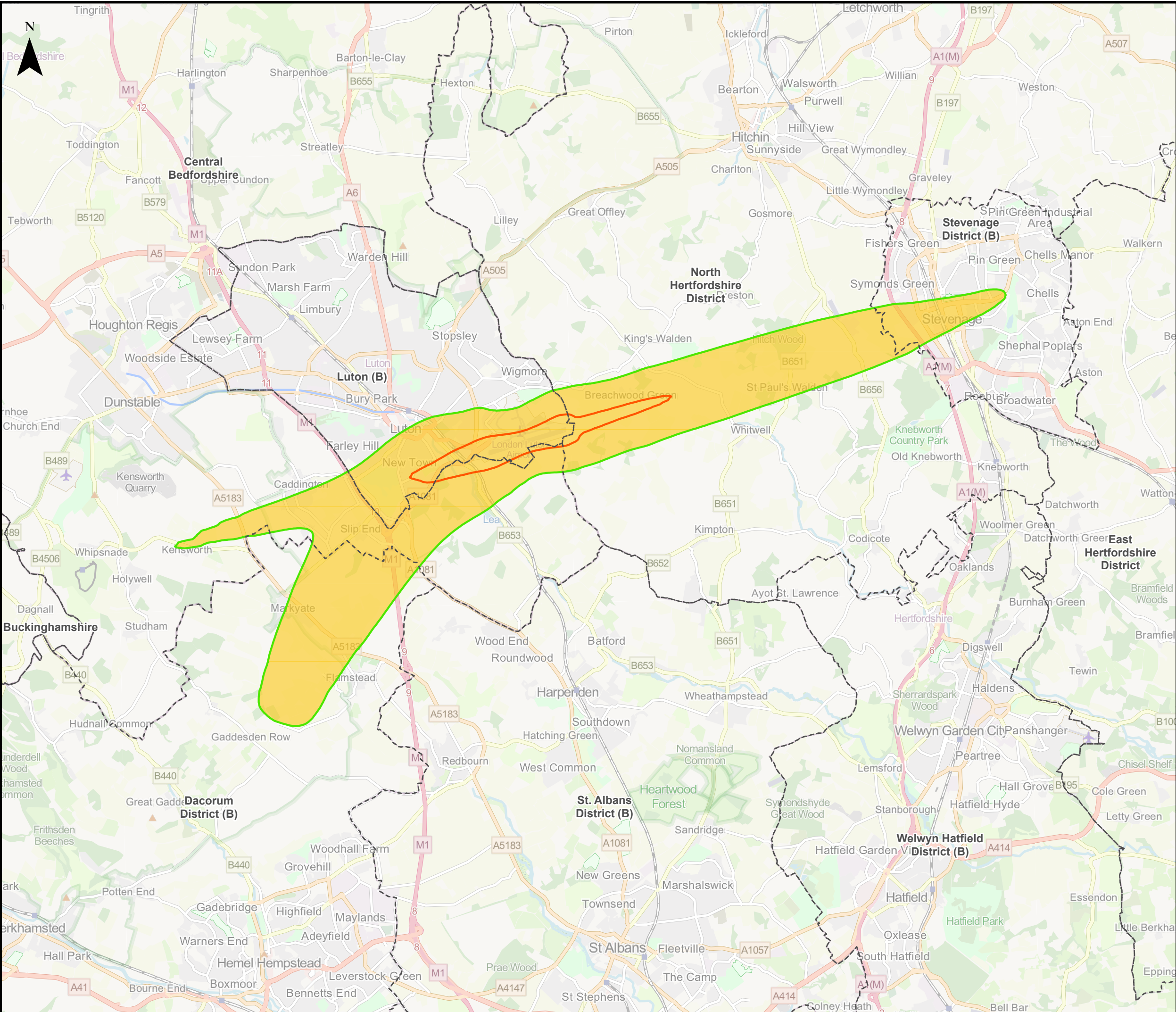
Drawing Title: **Figure 16.42**
 Extent of 2039 Do-Something Night-time LAeq,8h Air Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	31/01/23	1:95,000	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-0042	P01

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Legend

- Local Authority Boundaries
- Change in 2039 Do-Something - Do-Minimum Daytime LAeq,16h Air Noise Contours in Decibels (dB)**
- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more
- Air Noise Contours in Decibels (dB) (2039 Do-something Daytime LAeq,16h)**
- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 63dB - Significant Observed Adverse Effect Level (SOAEL)

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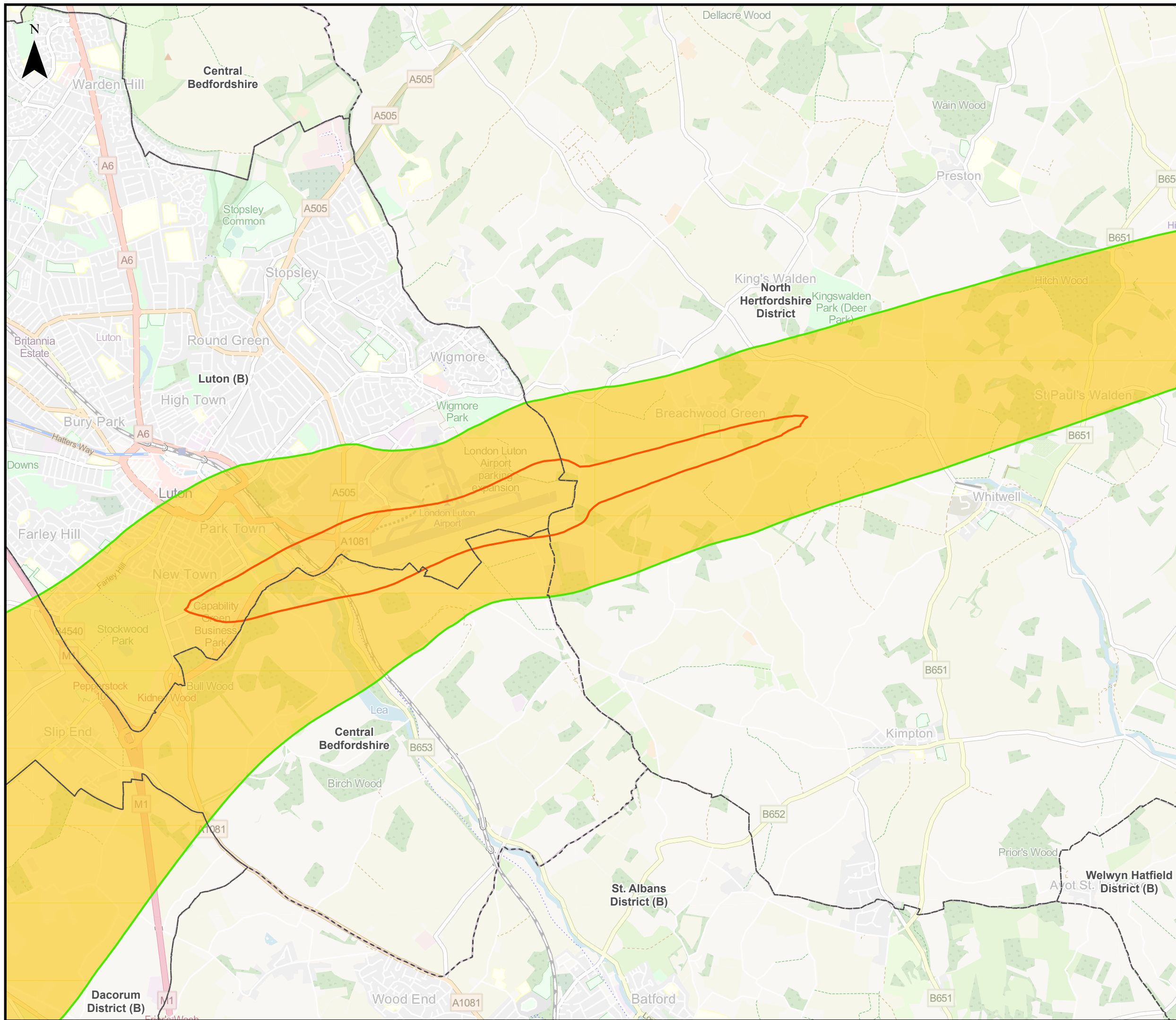
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Drawing Title **Figure 16.43a**
Change in 2039 Do-Something - Do-Minimum Daytime LAeq,16h Air Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:95,000	A3

DCO Application Ref.	APFP Regulation	DCO Document Ref.
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Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0043	P01
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Legend

- Local Authority Boundaries

Change in 2039 Do-Something - Do-Minimum Daytime LAeq,16h Air Noise Contours in Decibels (dB)

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

Air Noise Contours in Decibels (dB) (2039 Do-something Daytime LAeq,16h)

- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 63dB - Significant Observed Adverse Effect Level (SOAEL)

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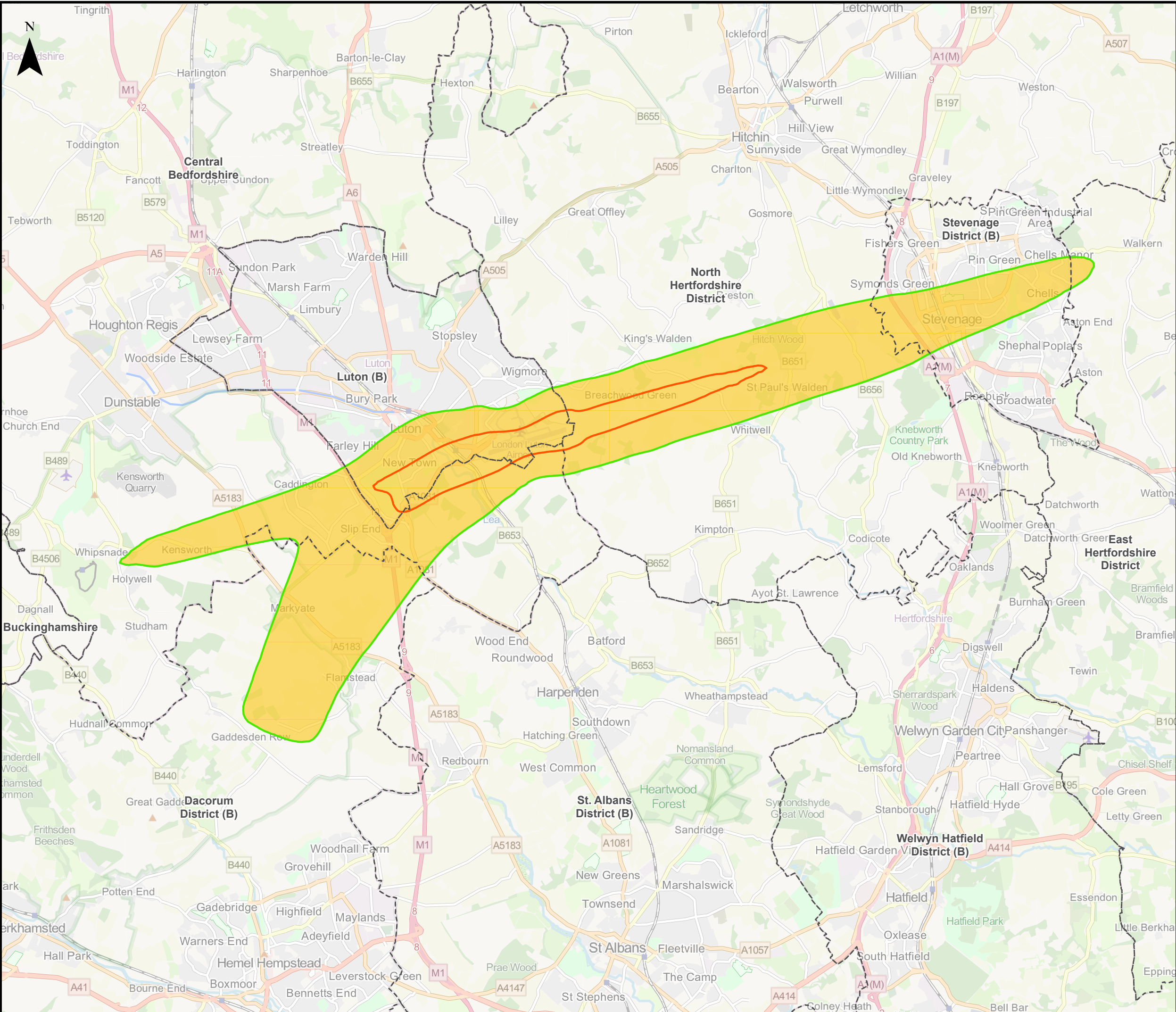
Drawing Title: Figure 16.43b
Change in 2039 Do-Something - Do-Minimum Daytime LAeq,16h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	31/01/23	1:40,000	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-0099	P01

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Legend

- Local Authority Boundaries
- Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours in Decibels (dB)**
- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more
- Air Noise Contours in Decibels (dB) (2039 Do-something Night-time LAeq,8h)**
- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55dB - Significant Observed Adverse Effect Level (SOAEL)

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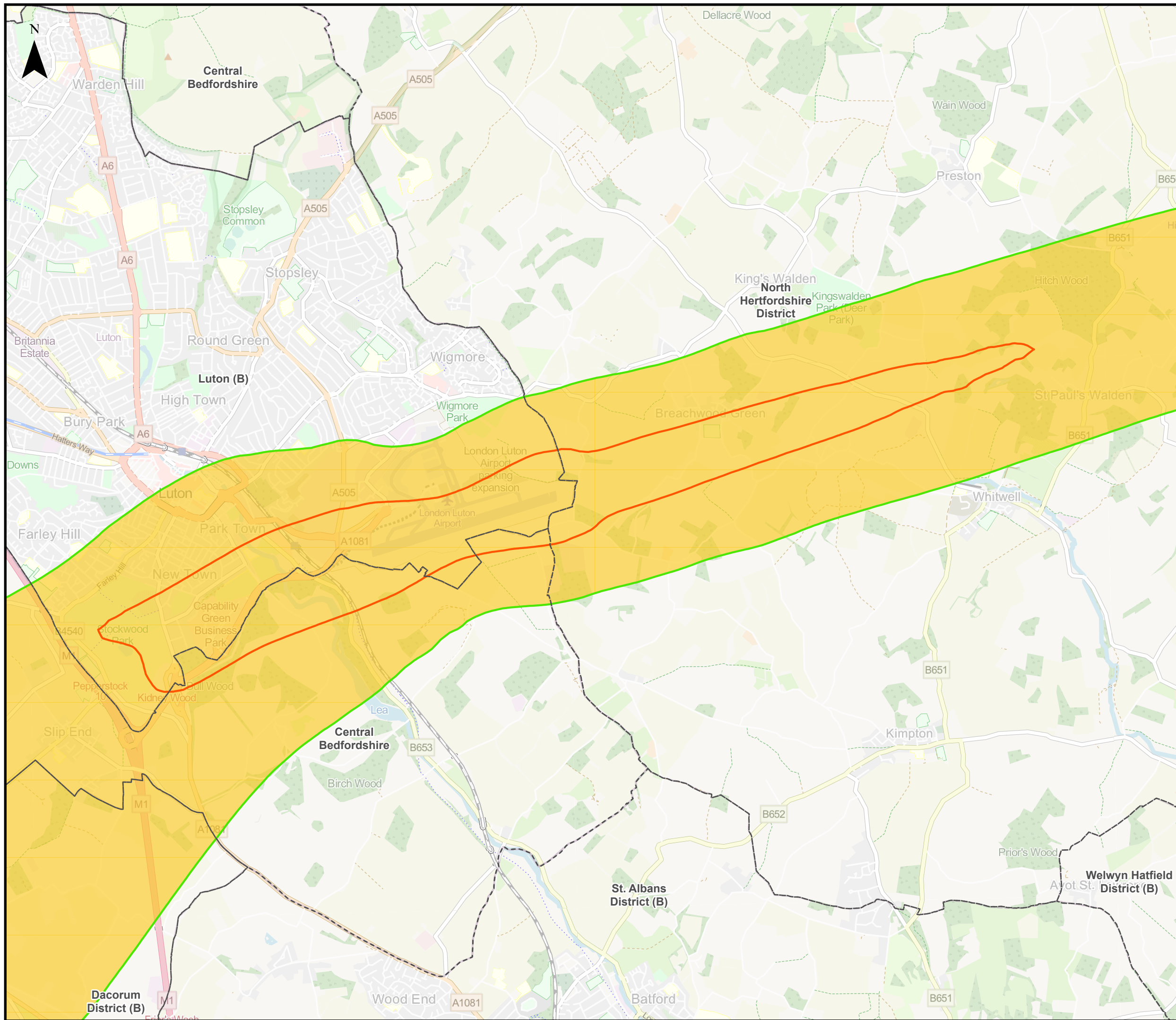
Drawing Title **Figure 16.44a**
Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn MAB	Checked CSH	Approved CS	Date 31/01/23	Scale 1:95,000	Size A3

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

Local Authority Boundaries

Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours in Decibels (dB)

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

Air Noise Contours in Decibels (dB) (2039 Do-something Night-time LAeq,8h)

- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55dB - Significant Observed Adverse Effect Level (SOAEL)

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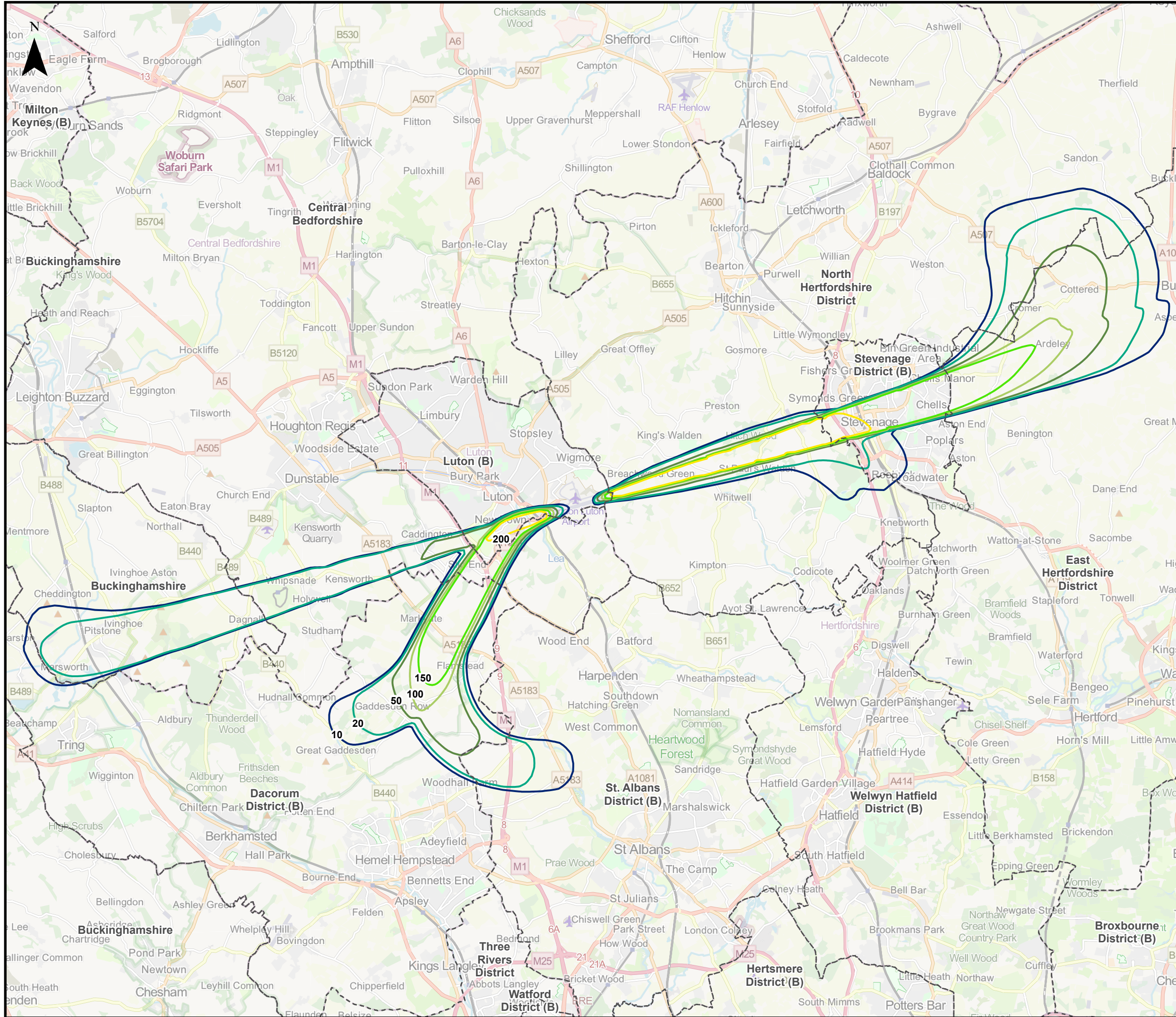
Drawing Title: Figure 16.44b
 Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	31/01/23	1:40,000	A3

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

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LLADCO-3C-AEC-00-00-DR-YE-0100	P01

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Legend

- Local Authority Boundaries
- Number of overflights per day (07:00 – 23:00) up to 4,000ft (2039 Do-Something)**
- 10
- 20
- 50
- 100
- 150
- 200

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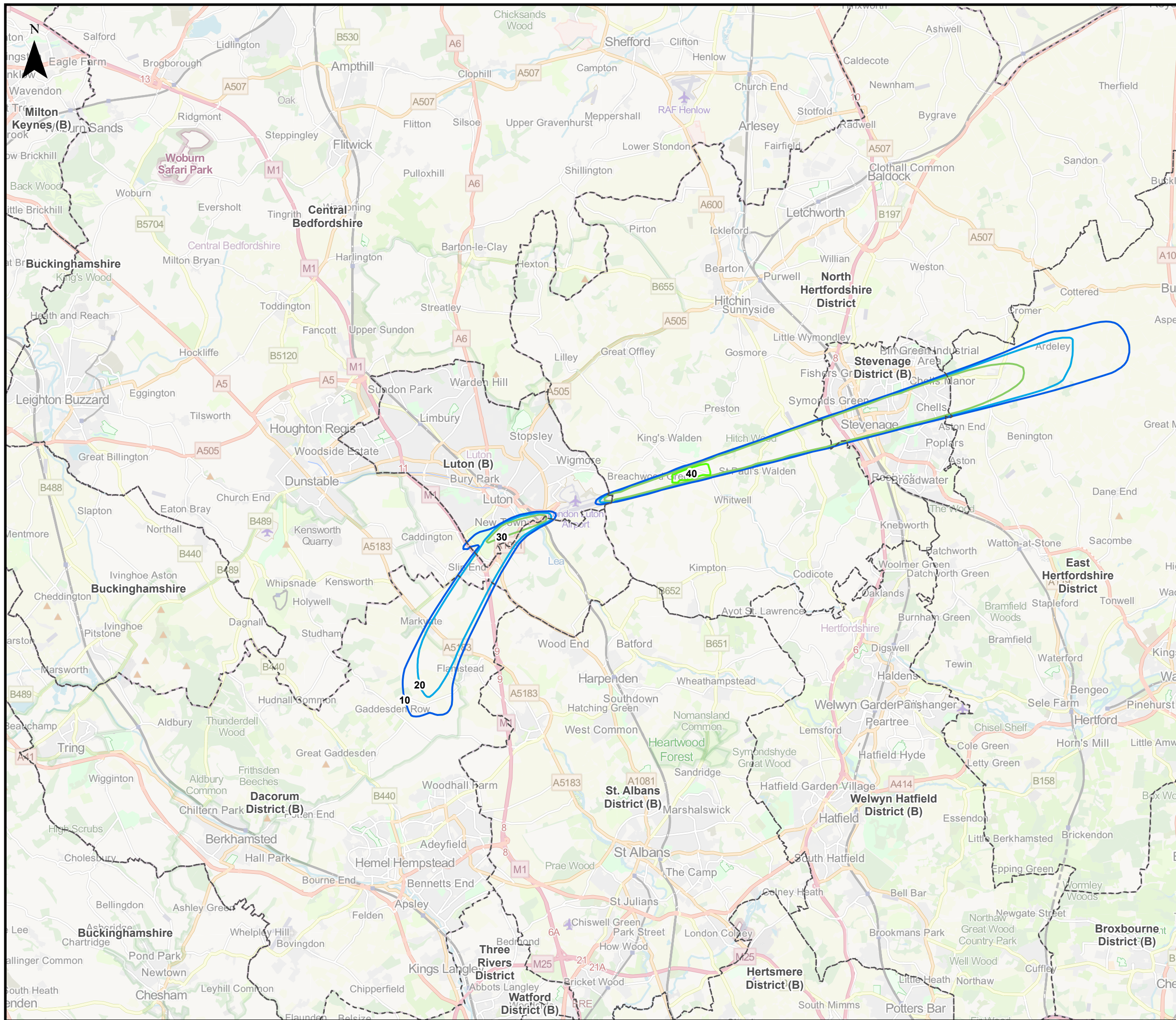
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Drawing Title
**Figure 16.45
Extent of 2039 Do-Something Daytime
Overflight Contours up to 4,000 feet**

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:140,000	A3

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

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LLADCO-3C-AEC-00-00-DR-YE-0045	P01
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Legend

- Local Authority Boundaries

Number of overflights per night (23:00 – 07:00) up to 4,000ft (2039 Do-Something)

- 10
- 20
- 30
- 40

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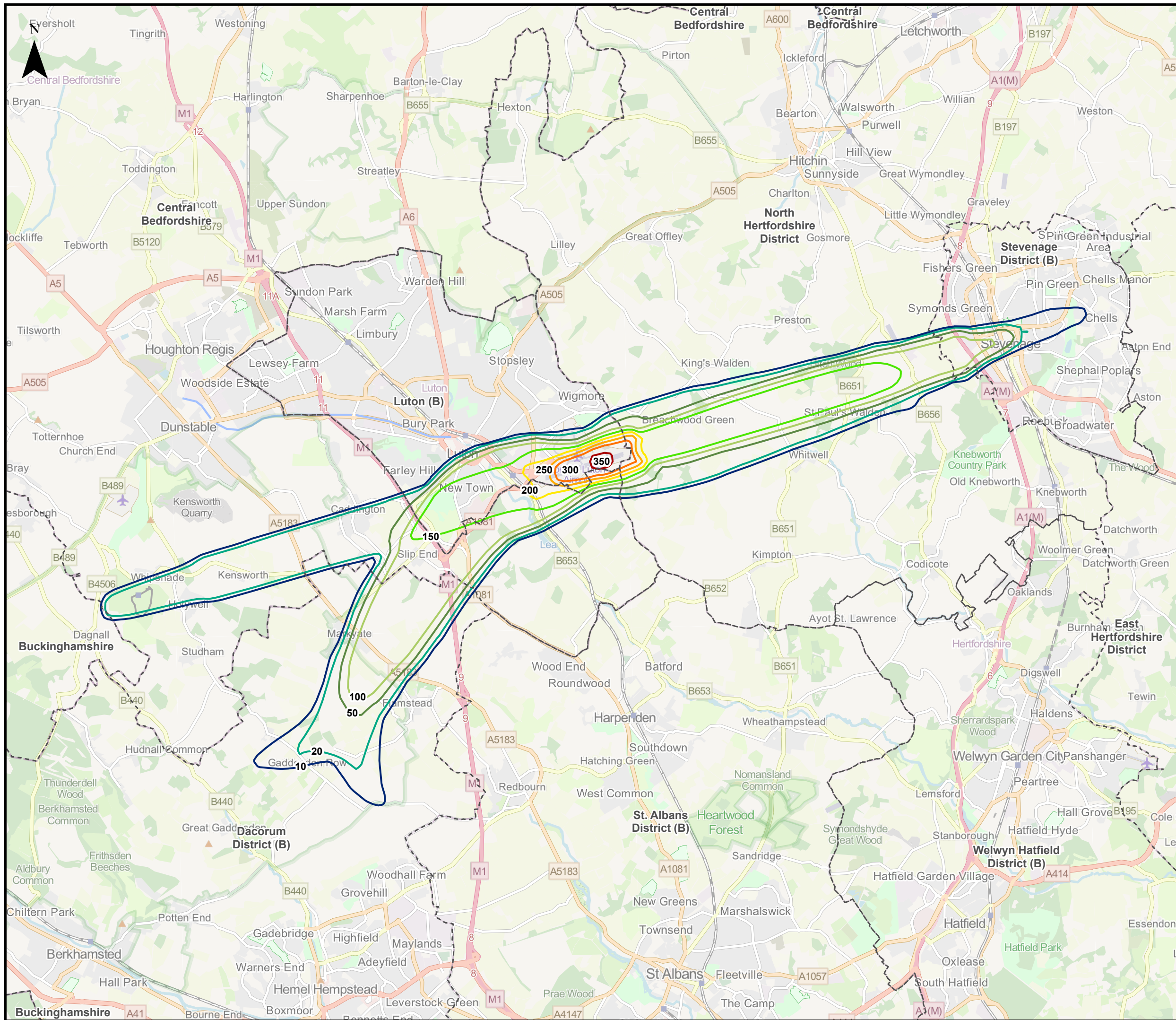
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Drawing Title
**Figure 16.46
Extent of 2039 Do-Something Night-time
Overflight Contours up to 4,000 feet**

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:140,000	A3

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

Drawing Number	Revision
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Legend

- Local Authority Boundaries

Noise Contours (2039 Do-Minimum Daytime number of aircraft above 65 Decibels (dB) LASmax (N65))

- 10
- 20
- 50
- 100
- 150
- 200
- 250
- 300
- 350

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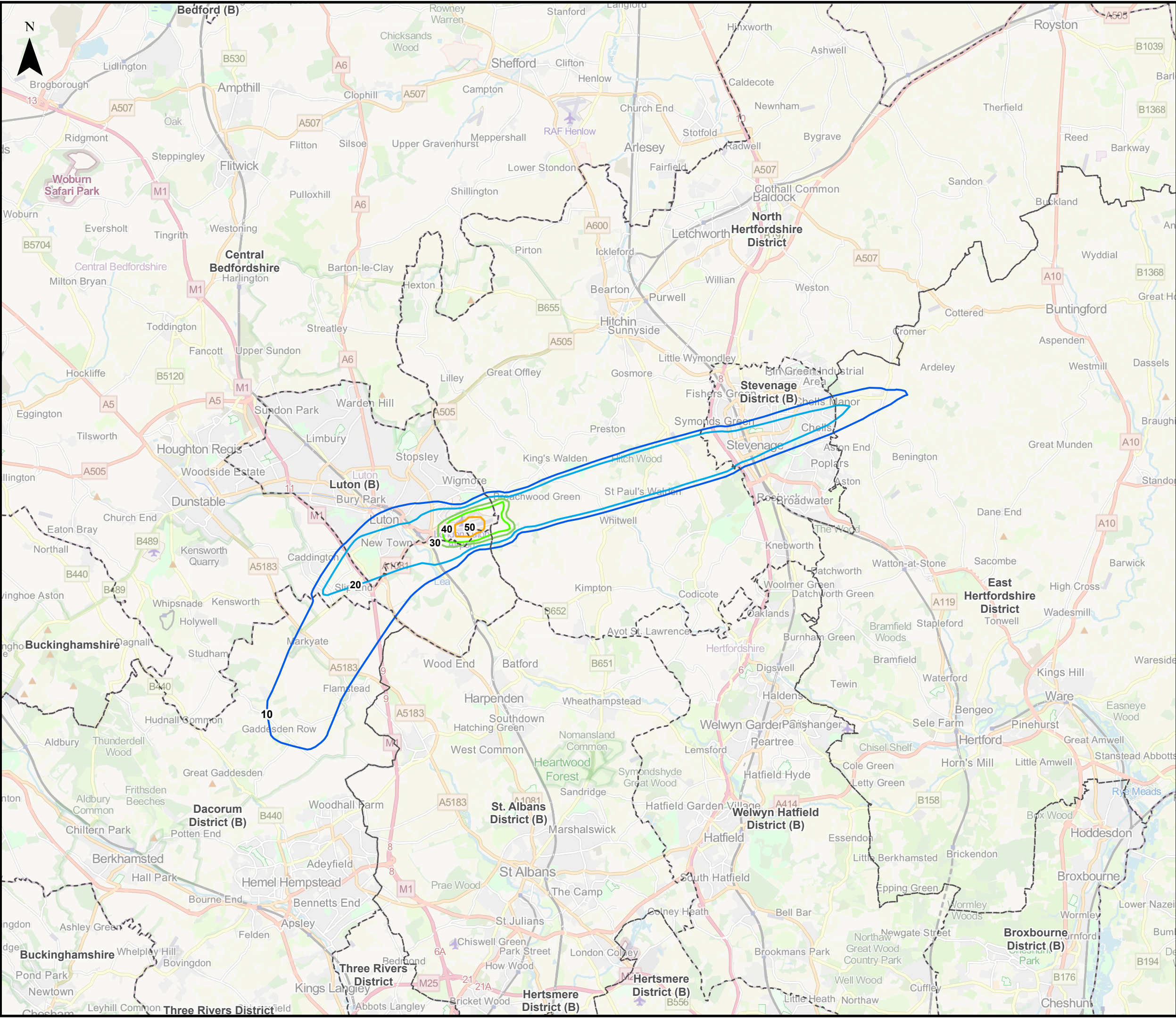
Drawing Title **Figure 16.47**
Extent of 2039 Do-Minimum Daytime number of aircraft above 65 Decibels (dB) LASmax (N65) Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:95,000	A3

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

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Legend

- Local Authority Boundaries
- Noise Contours (2039 Do-Minimum Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**
 - 10
 - 20
 - 30
 - 40
 - 50

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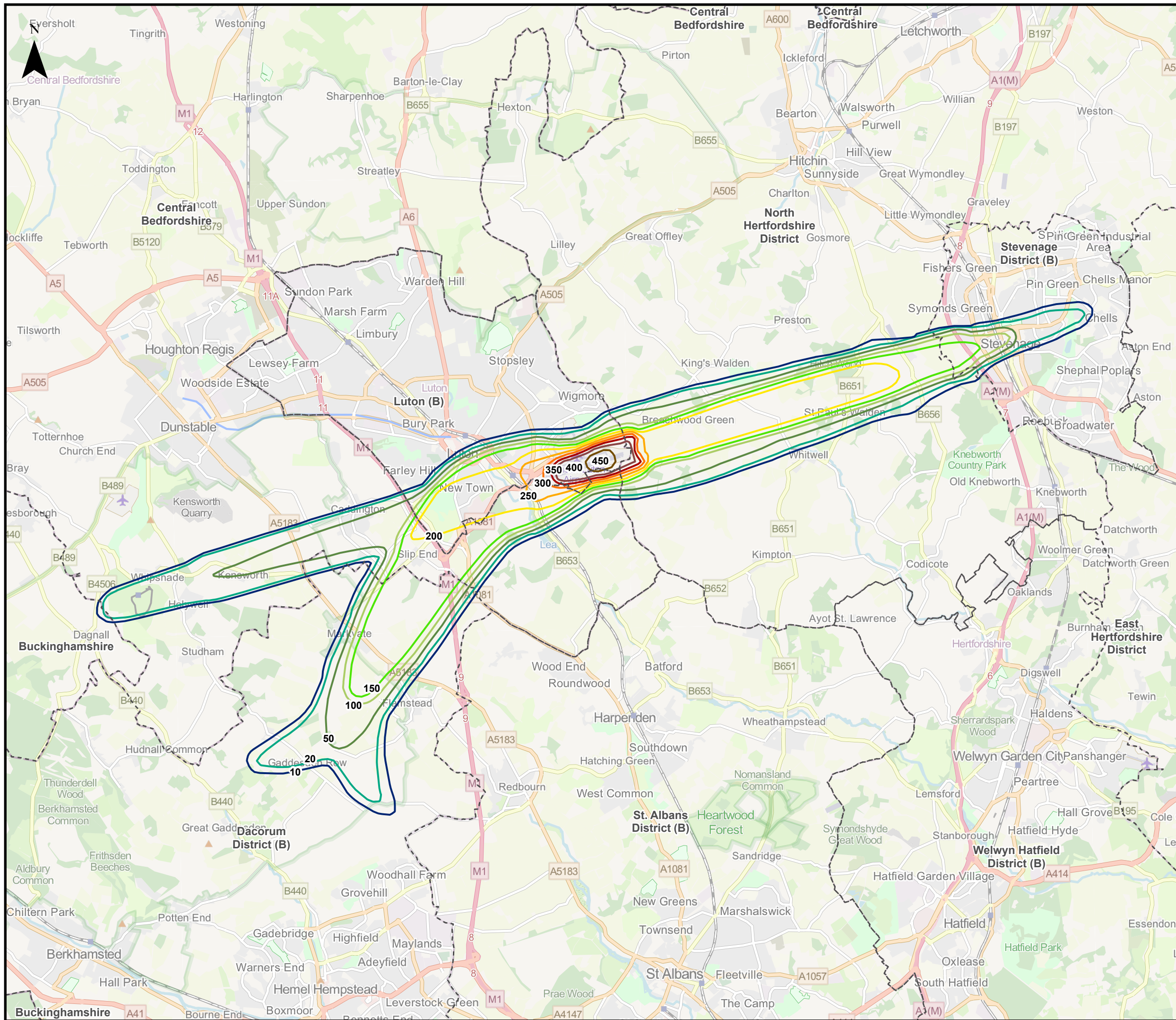
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Drawing Title: **Figure 16.48**
 Extent of 2039 Do-Minimum Night-time number of aircraft above 60 Decibels (dB) LASmax (N60) Noise Contours

Purpose of issue	SUITABLE FOR INFORMATION	Suitability	S2
Drawn	Checked	Approved	Date
MAB	CSh	CS	31/01/23
Scale	1:140,000	Size	A3

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TR020001	APFP 5(2)(a)	TR020001/APP/5.03

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Legend

Local Authority Boundaries

Noise Contours (2039 Do-something Daytime number of aircraft above 65 Decibels (dB) LASmax (N65))

- 10
- 20
- 50
- 100
- 150
- 200
- 250
- 300
- 350
- 400
- 450

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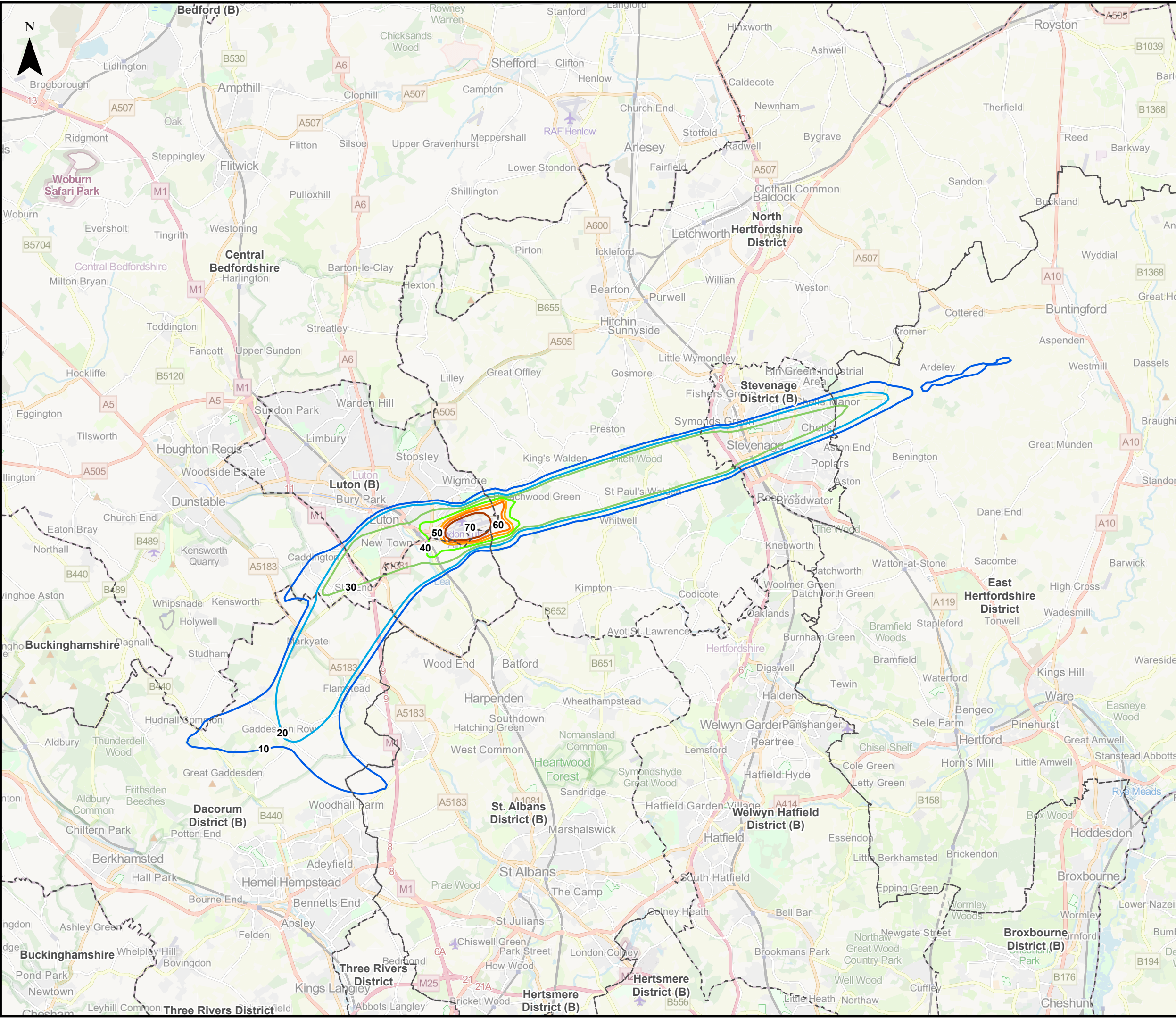
Drawing Title: Figure 16.49
Extent of 2039 Do-something Daytime number of aircraft above 65 Decibels (dB) LASmax (N65) Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:95,000	A3

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Legend

- Local Authority Boundaries
- Noise Contours (2039 Do-Something Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**
- 10
- 20
- 30
- 40
- 50
- 60
- 70

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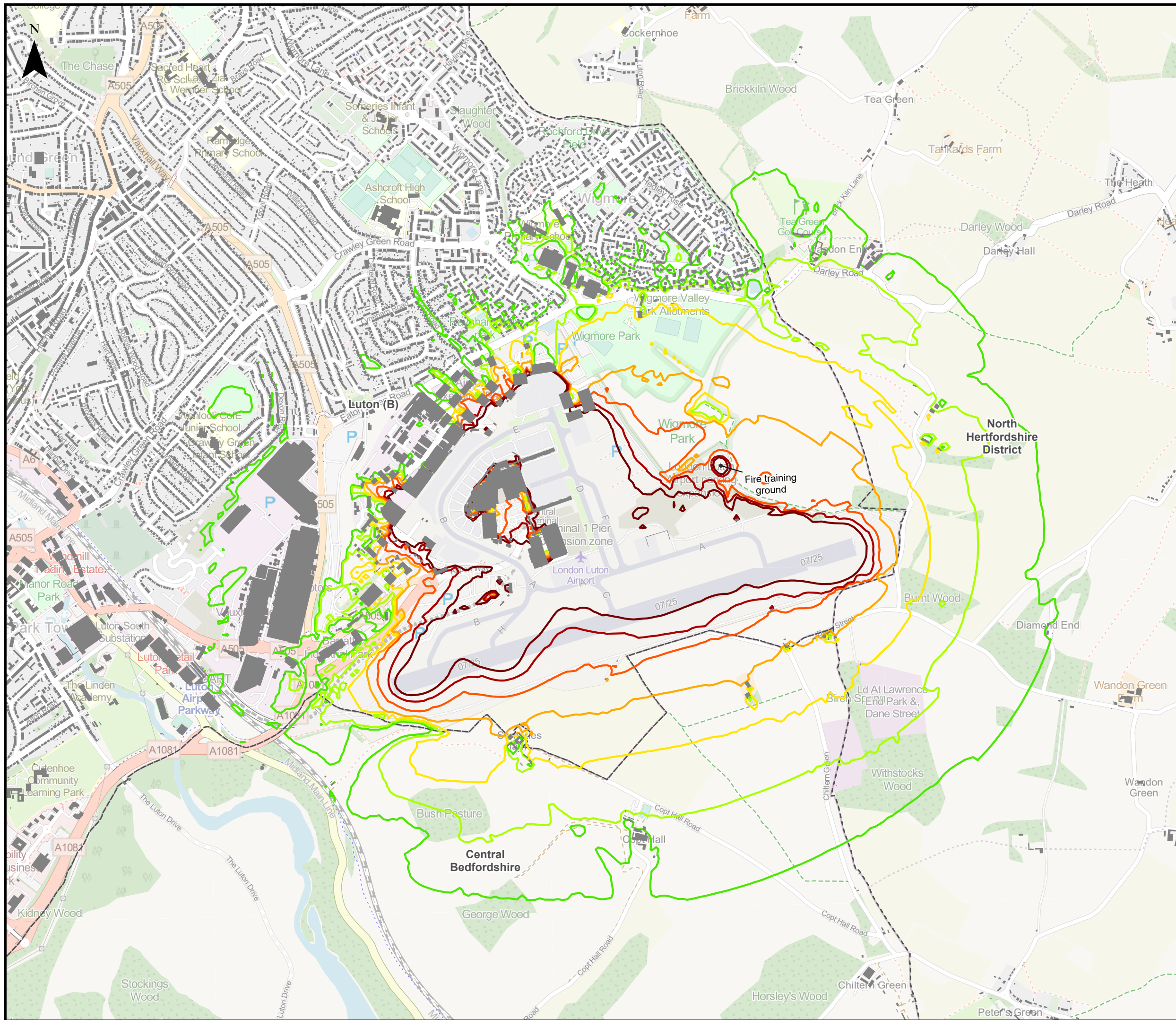
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Drawing Title: **Figure 16.50**
 Extent of 2039 Do-Something Night-time number of aircraft above 60 Decibels (dB) LASmax (N60) Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	31/01/23	1:140,000	A3

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Legend

- Local Authority Boundaries
- Building
- Ground Noise Contours in Decibels (dB) (2039 Do-Minimum Daytime LAeq,16h)**
- 51 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 54 dB
- 57 dB
- 60 dB
- 63 dB - Significant Observed Adverse Effect Level (SOAEL)
- 66 dB
- 69 dB - Unacceptable Adverse Effect Level (UAEL)

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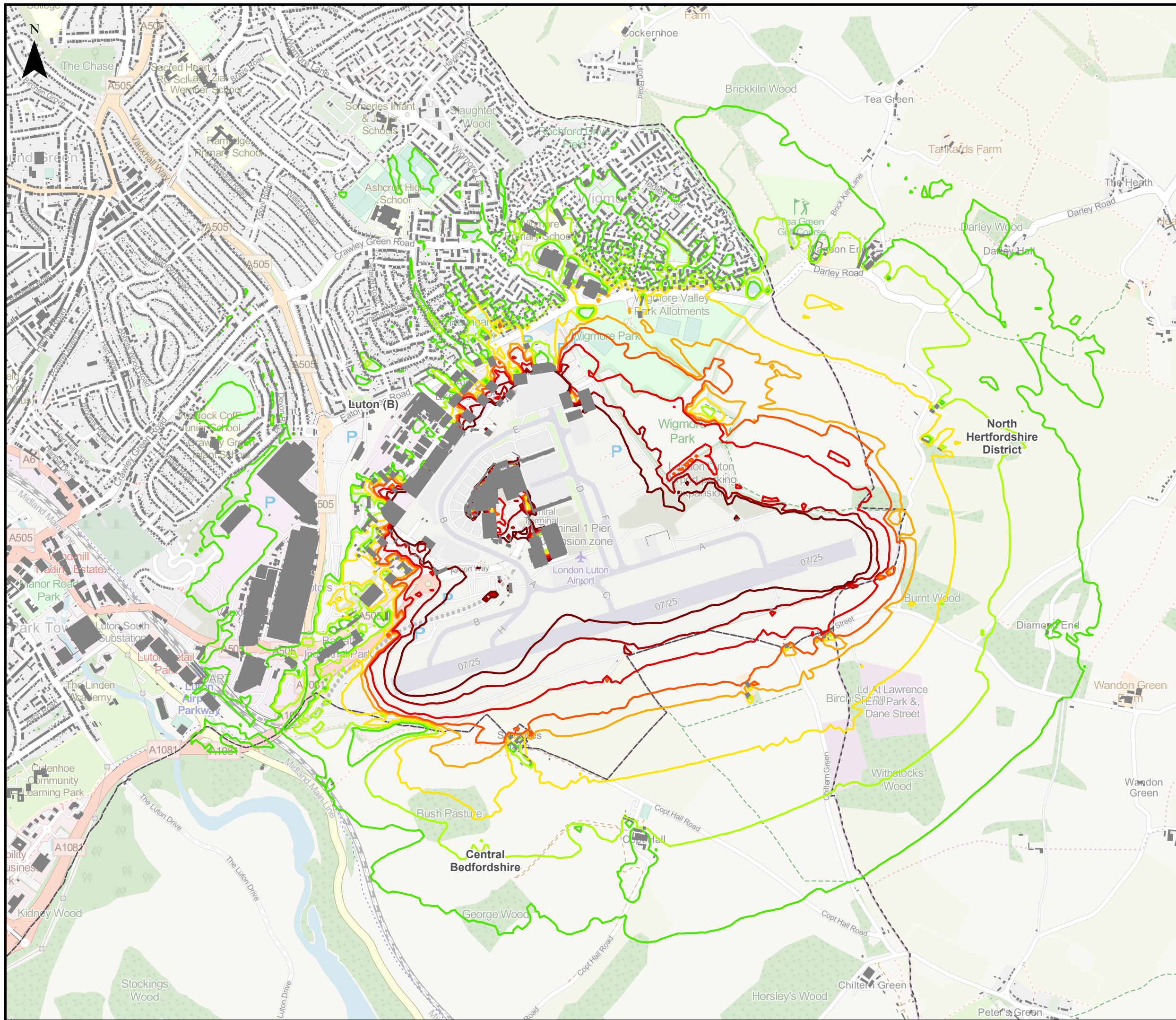
Drawing Title: **Figure 16.51**
Extent of 2039 Do-Minimum Daytime LAeq,16h Ground Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	A3	

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TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0051	P01

Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number



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Legend

- Local Authority Boundaries
- Building
- Ground Noise Contours in Decibels (dB) (2039 Do-Minimum Night-time LAeq,8h)**
- 45 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 48 dB
- 51 dB
- 54 dB
- 55 dB - Significant Observed Adverse Effect Level (SOAEL)
- 57 dB
- 60 dB
- 63 dB - Unacceptable Adverse Effect Level (UAEL)

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Revision History	Drawn	Checked	Approved	Date	Rev.

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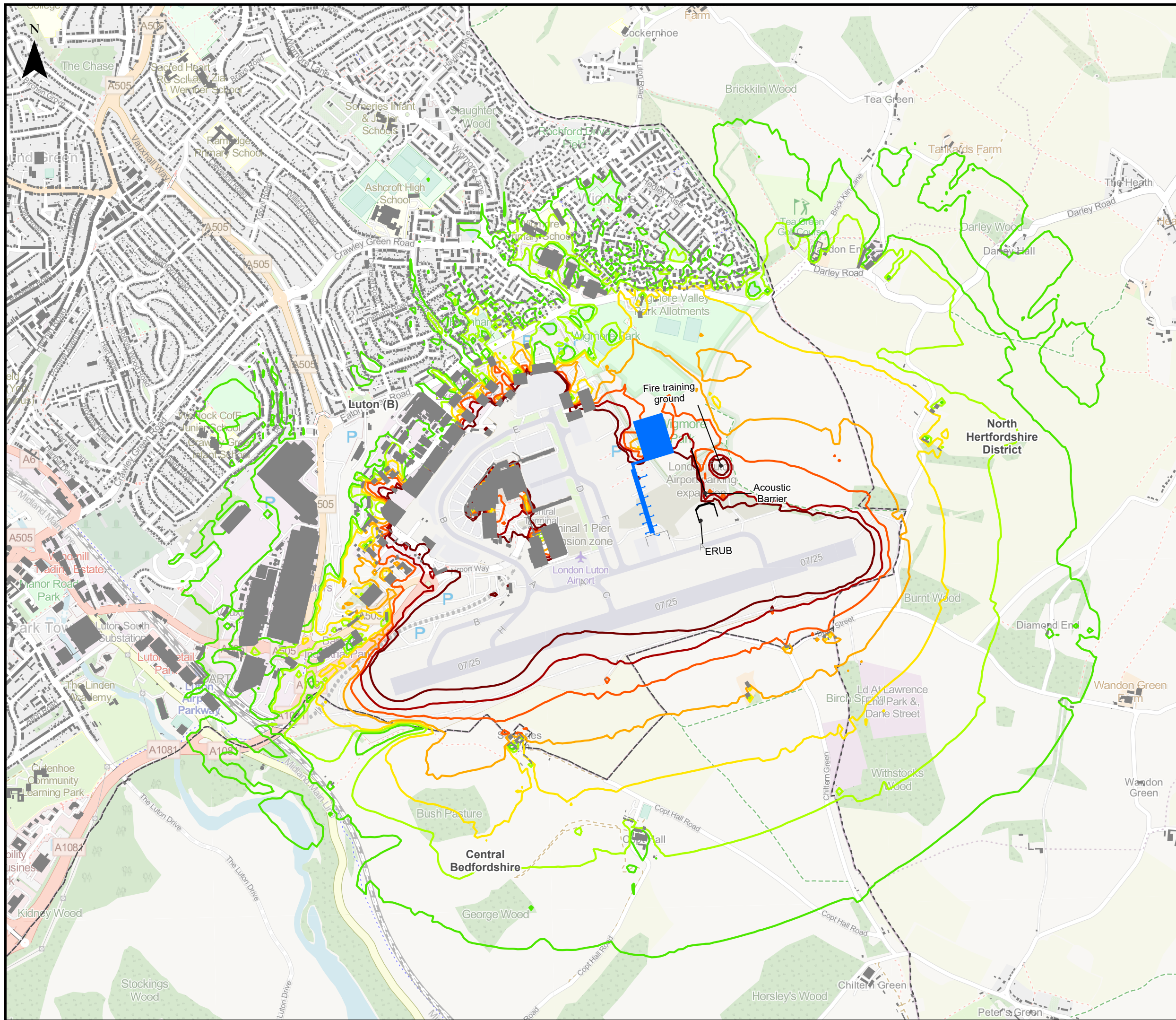
London Luton Airport Expansion Development Consent Order

Drawing Title: **Figure 16.52**
Extent of 2039 Do-Minimum Night-time LAeq,8h Ground Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	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-0054	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Local Authority Boundaries
- Building
- Proposed Terminal - Assessment Phase 2a
- Ground Noise Contours in Decibels (dB) (2039 Do-Something Daytime LAeq,16h)**
- 51 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 54 dB
- 57 dB
- 60 dB
- 63 dB - Significant Observed Adverse Effect Level (SOAEL)
- 66 dB
- 69 dB - Unacceptable Adverse Effect Level (UAEL)

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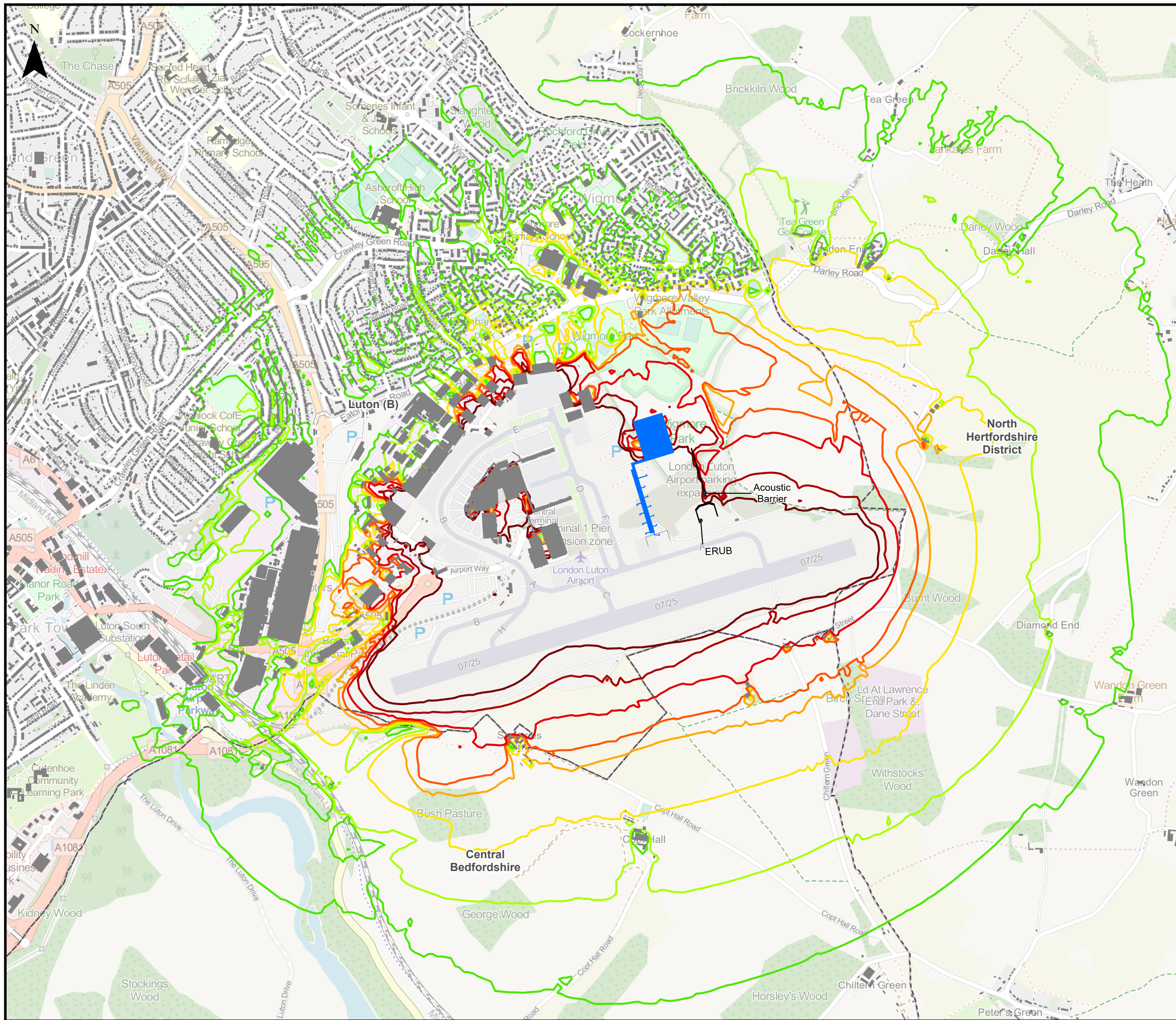
**London Luton Airport Expansion
 Development Consent Order**

Drawing Title
**Figure 16.53
 Extent of 2039 Do-Something Daytime LAeq,16h
 Ground Noise Contours**

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	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-0053	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Local Authority Boundaries
- Building
- Proposed Terminal - Assessment Phase 2a
- Ground Noise Contours in Decibels (dB) (2039 Do-Something Night-time LAeq,8h)**
- 45 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 48 dB
- 51 dB
- 54 dB
- 55 dB - Significant Observed Adverse Effect Level (SOAEL)
- 57 dB
- 60 dB
- 63 dB - Unacceptable Adverse Effect Level (UAEL)

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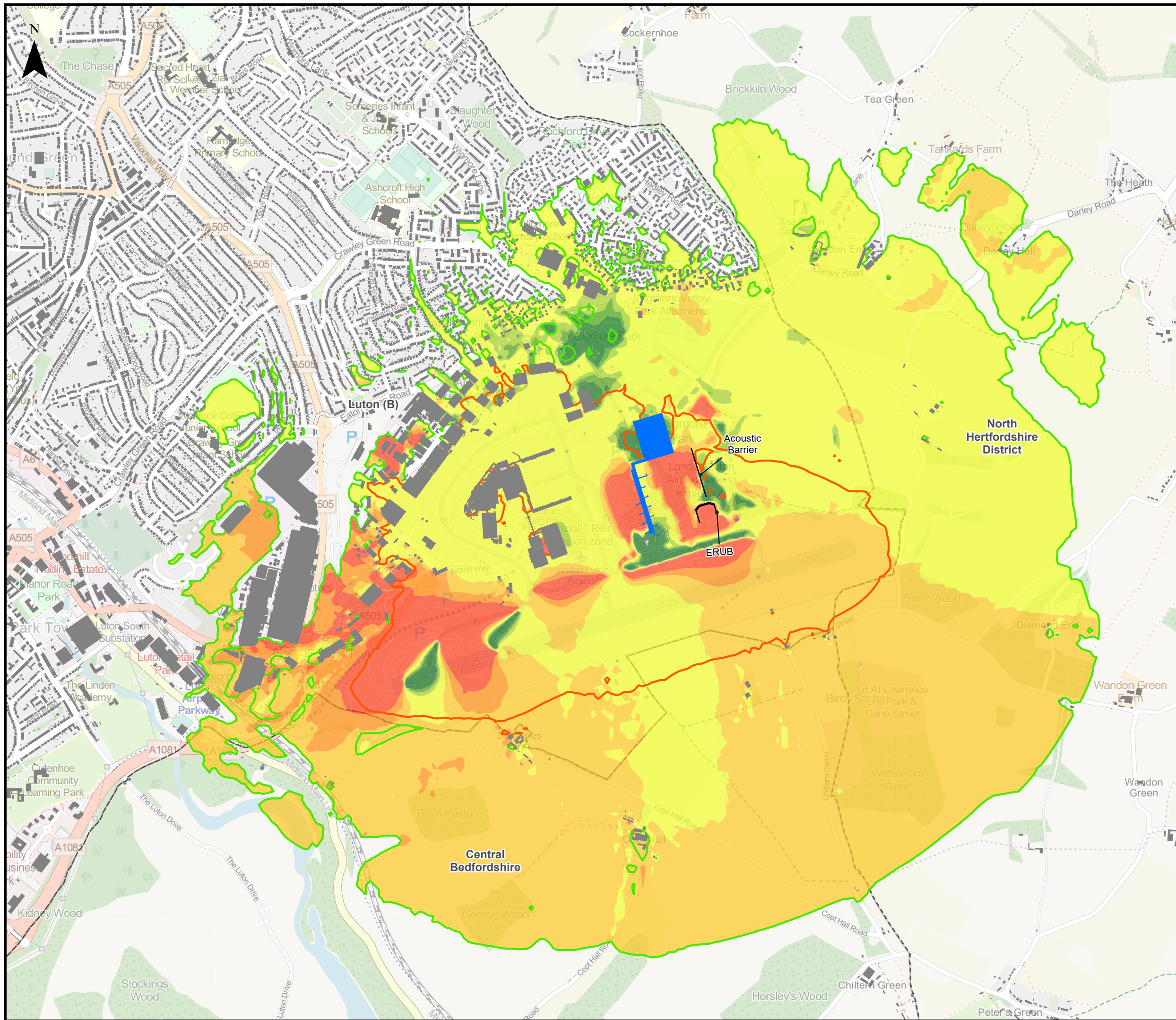
Drawing Title: **Figure 16.54**
 Extent of 2039 Do-Something Night-time LAeq,8h Ground Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	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-0054	P01

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Legend

- Local Authority Boundaries
- Building
- Proposed Terminal - Assessment Phase 2a

Change in 2039 Do-Something - Do-Minimum Daytime LAeq,16h Ground Noise Contours

- 3.0 dB or more decrease
- 2.0 - 2.9 dB decrease
- 1.0 - 1.9 dB decrease
- 1.0 dB decrease - 1.0 dB increase
- 1.0 - 1.9 dB increase
- 2.0 - 2.9 dB increase
- 3.0 dB or more increase

Ground Noise Contours in Decibels (dB) (2039 Do-Something Daytime LAeq,16h)

- 51 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 63 dB - Significant Observed Adverse Effect Level (SOAEL)

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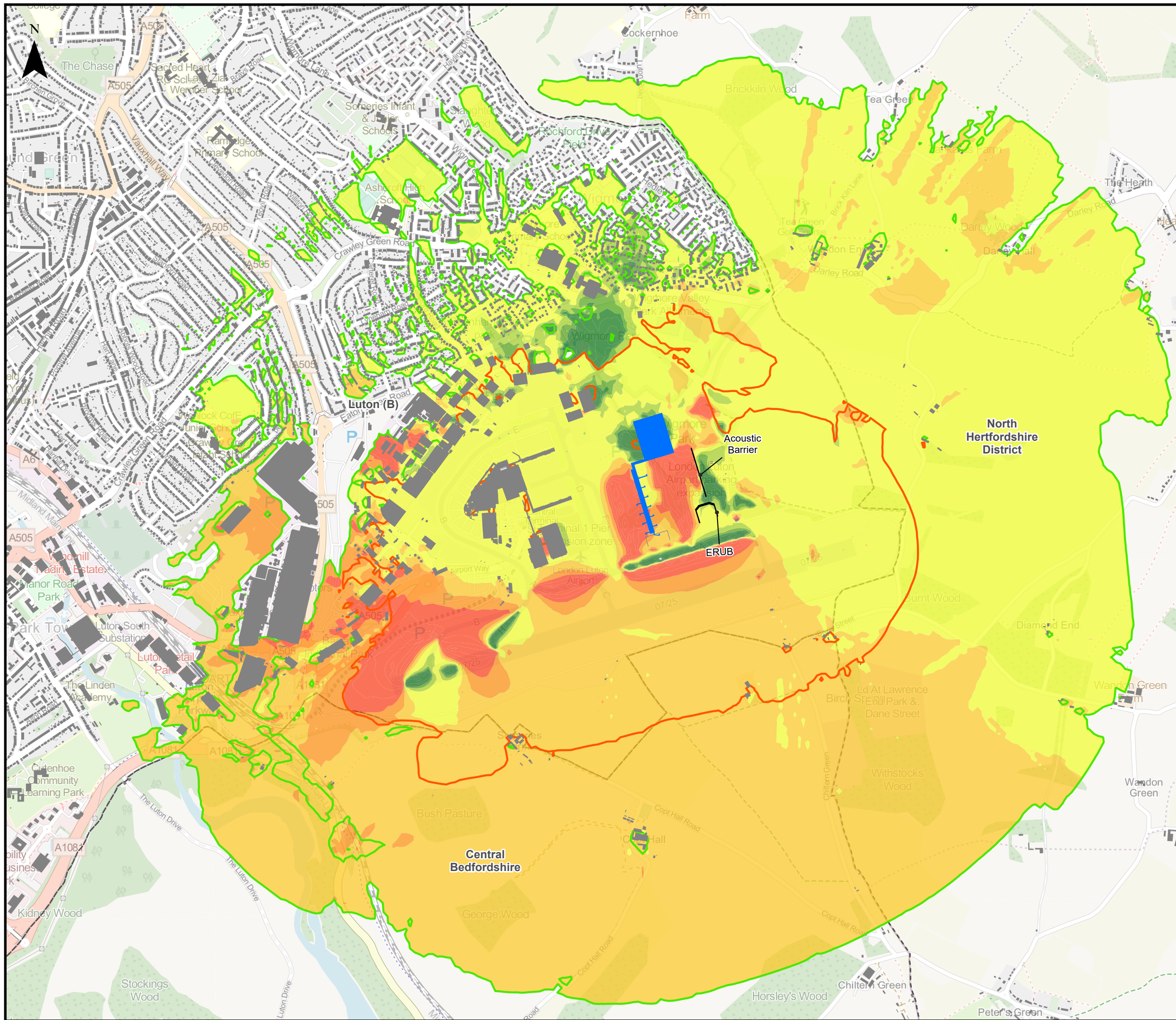
Drawing Title
Figure 16.55
Change in 2039 Do-Something - Do-Minimum Daytime LAeq,16h Ground Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	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-0055	P01

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Legend

- Local Authority Boundaries
- Building
- Proposed Terminal - Assessment Phase 2a

Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Ground Noise Contours

- 3.0 dB or more decrease
- 2.0 - 2.9 dB decrease
- 1.0 - 1.9 dB decrease
- 1.0 dB decrease - 1.0 dB increase
- 1.0 - 1.9 dB increase
- 2.0 - 2.9 dB increase
- 3.0 dB or more increase

Ground Noise Contours in Decibels (dB) (2039 Do-Something Night-time LAeq,8h)

- 45 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55 dB - Significant Observed Adverse Effect Level (SOAEL)

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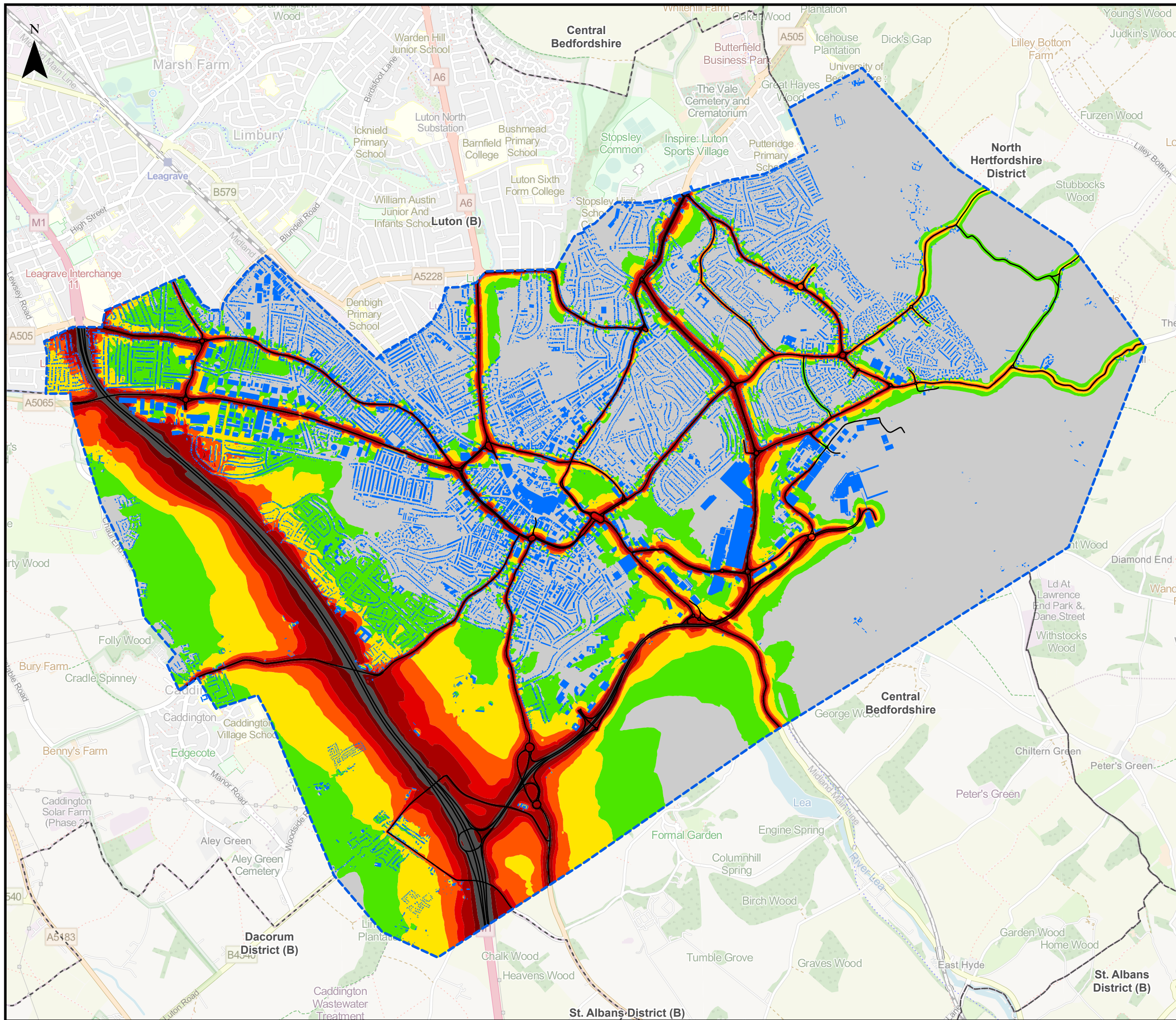
Drawing Title
Figure 16.56
Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Ground Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	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-0056	P01

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Legend

- Local Authority Boundaries
 - Surface Access Noise Calculation Area
 - Building
 - Road
- Surface Access Noise Contours in Decibels (dB) (2039 Do-Minimum 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

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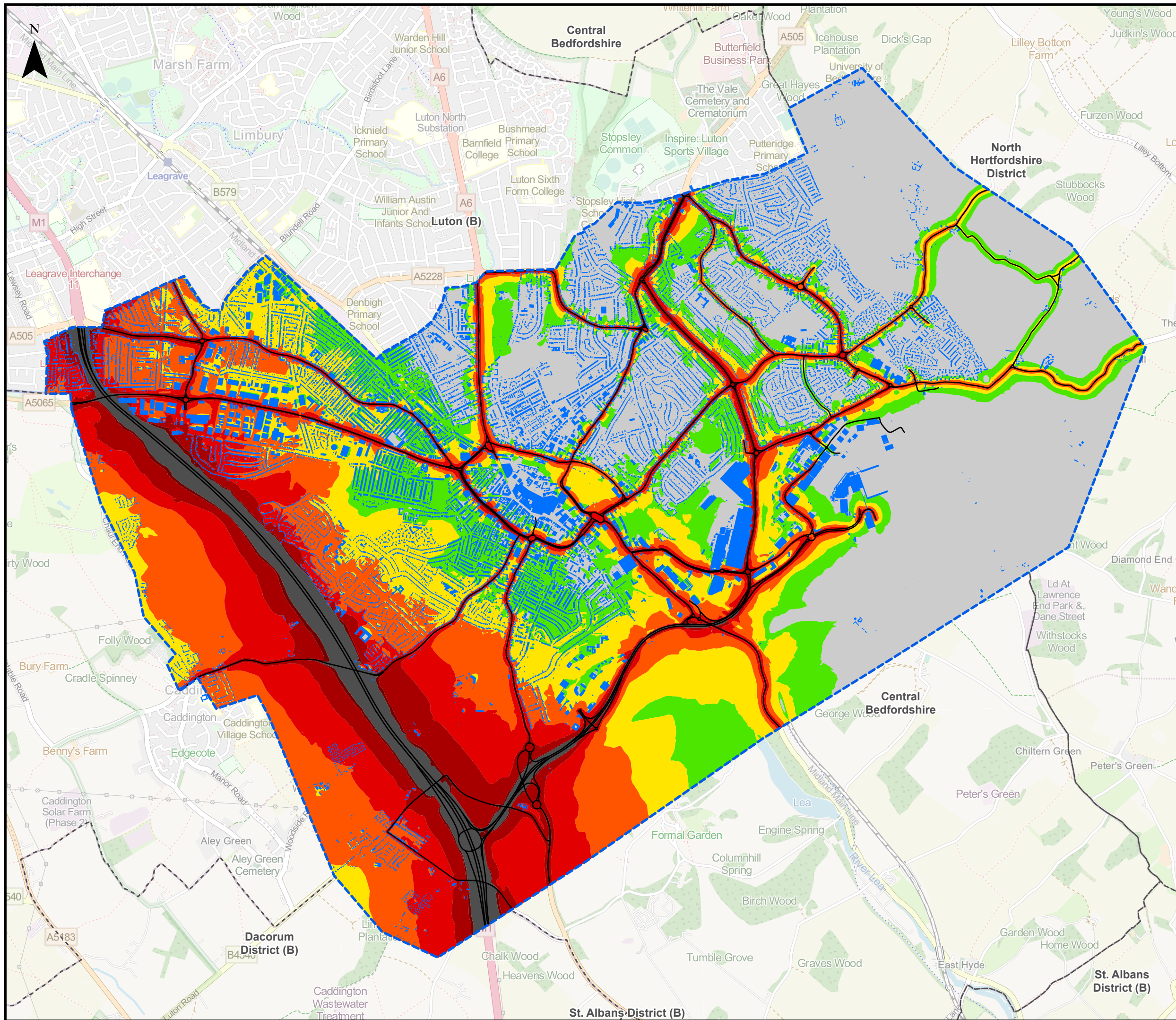
Drawing Title: **Figure 16.57**
 Extent of 2039 Do-Minimum Daytime LAeq,16h Surface Access Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSH	CS	31/01/23	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-0057	P01

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Legend

- Local Authority Boundaries
- Surface Access Noise Calculation Area
- Building
- Road

Surface Access Noise Contours in Decibels (dB) (2039 Do-Minimum 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

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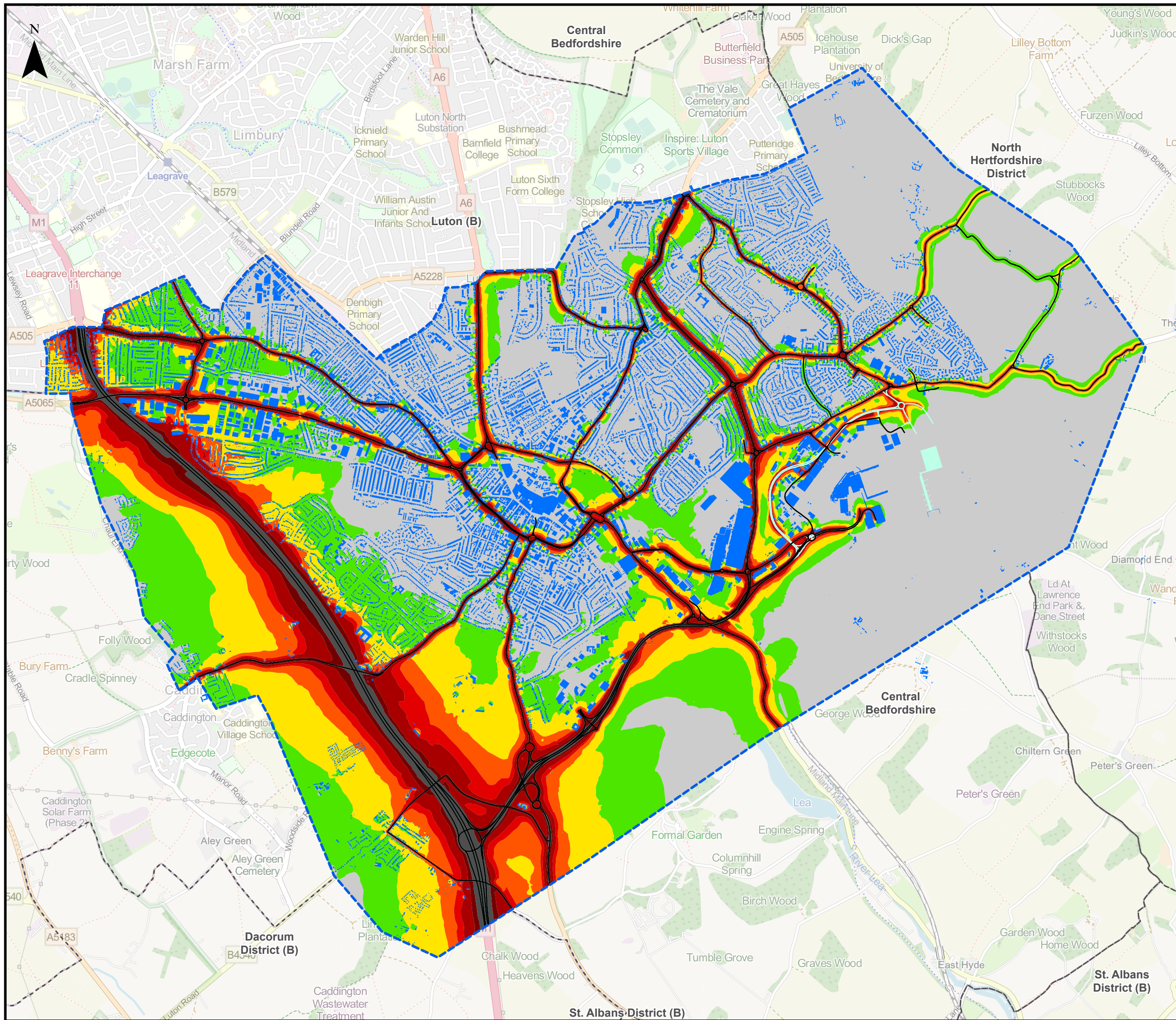
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Drawing Title: **Figure 16.58**
Extent of 2039 Do-Minimum Night-time LAeq,8h Surface Access Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	31/01/23	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-0058	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Local Authority Boundaries
- Surface Access Noise Calculation Area
- Building
- Road
- Proposed Terminal - Assessment Phase 2a
- Airport Access Road

Surface Access Noise Contours in Decibels (dB) (2039 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

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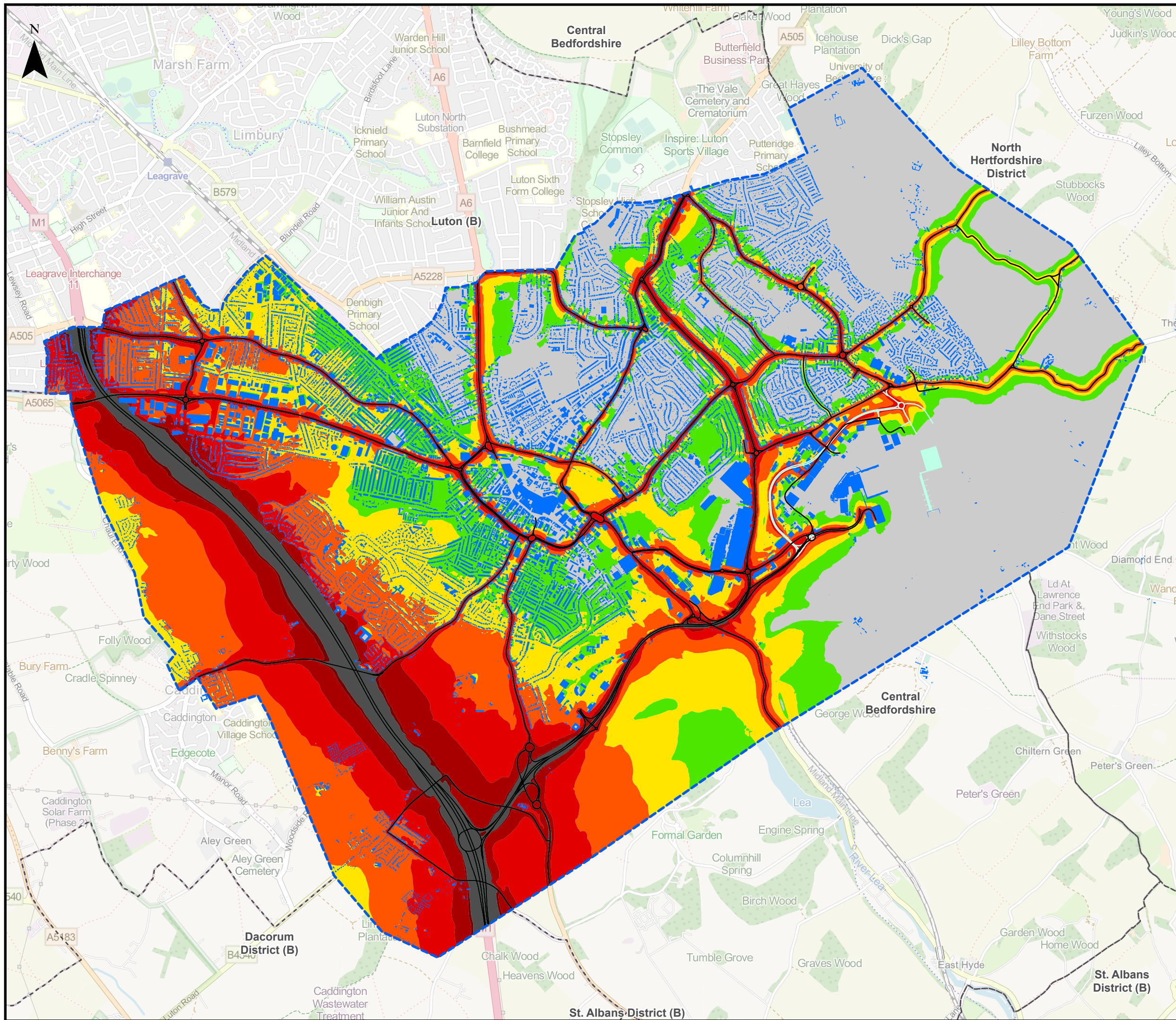
Drawing Title: **Figure 16.59**
 Extent of 2039 Do-Something Daytime LAeq,16h Surface Access Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSH	CS	31/01/23	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-0059	P01

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- Legend**
- Local Authority Boundaries
 - Surface Access Noise Calculation Area
 - Building
 - Proposed Terminal - Assessment Phase 2a
 - Airport Access Road
 - Road

Surface Access Noise Contours in Decibels (dB) (2039 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

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Drawing Title: Figure 16.60
 Extent of 2039 Do-Something Night-time LAeq,8h Surface Access Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CS	CS	31/01/23	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-0060	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	