

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 16.1 - 16.20

Application Document Ref: TR020001/APP/5.03

APFP Regulation: 5(2)(a)

The Planning Act 2008

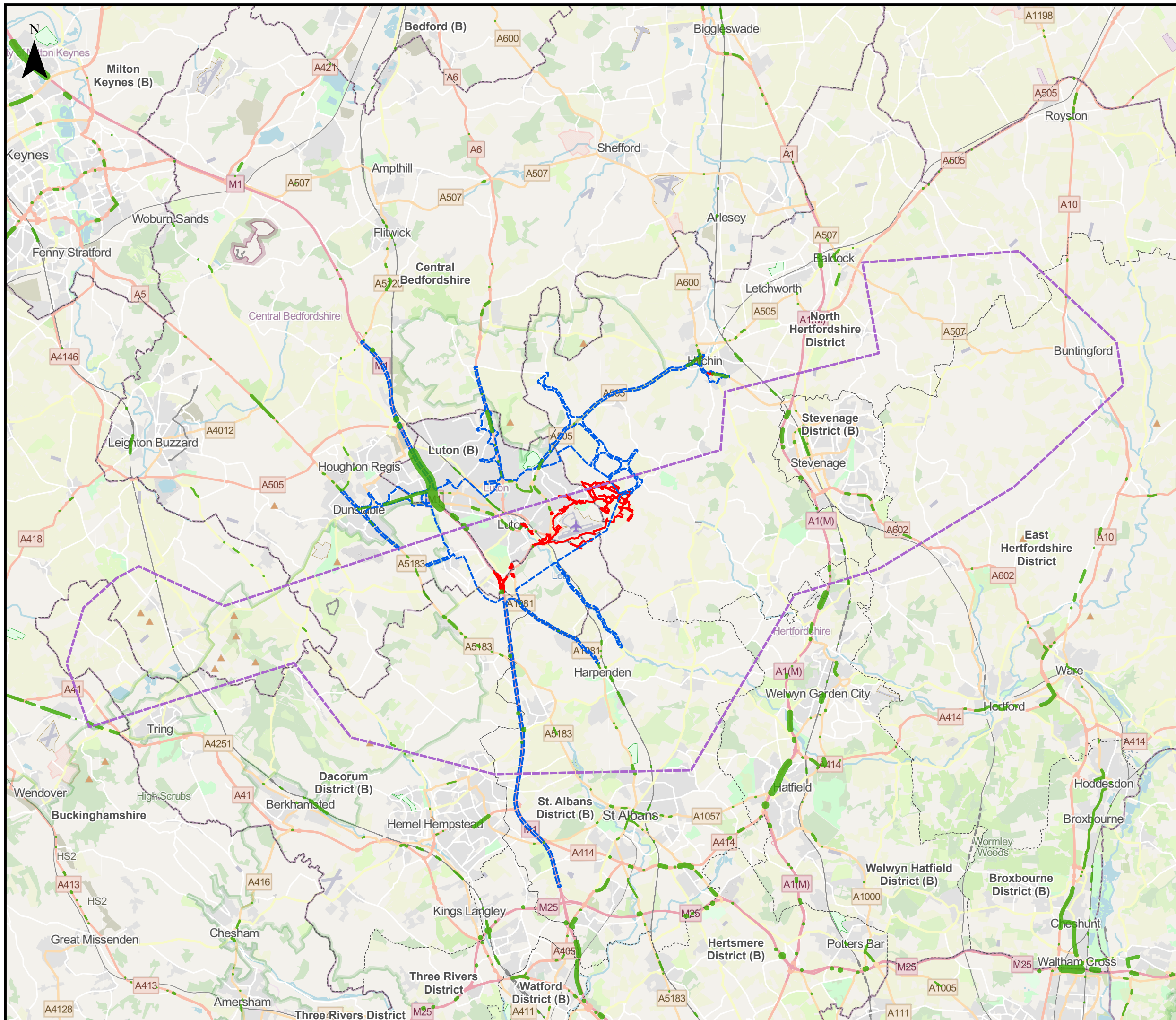
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

London Luton Airport Expansion Development Consent Order 202x

5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.1 – 16.20

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
 - Order Limits
 - Air Noise Study Area
 - Surface Access Noise Calculation and Study Area
 - Road Traffic Noise Important Area

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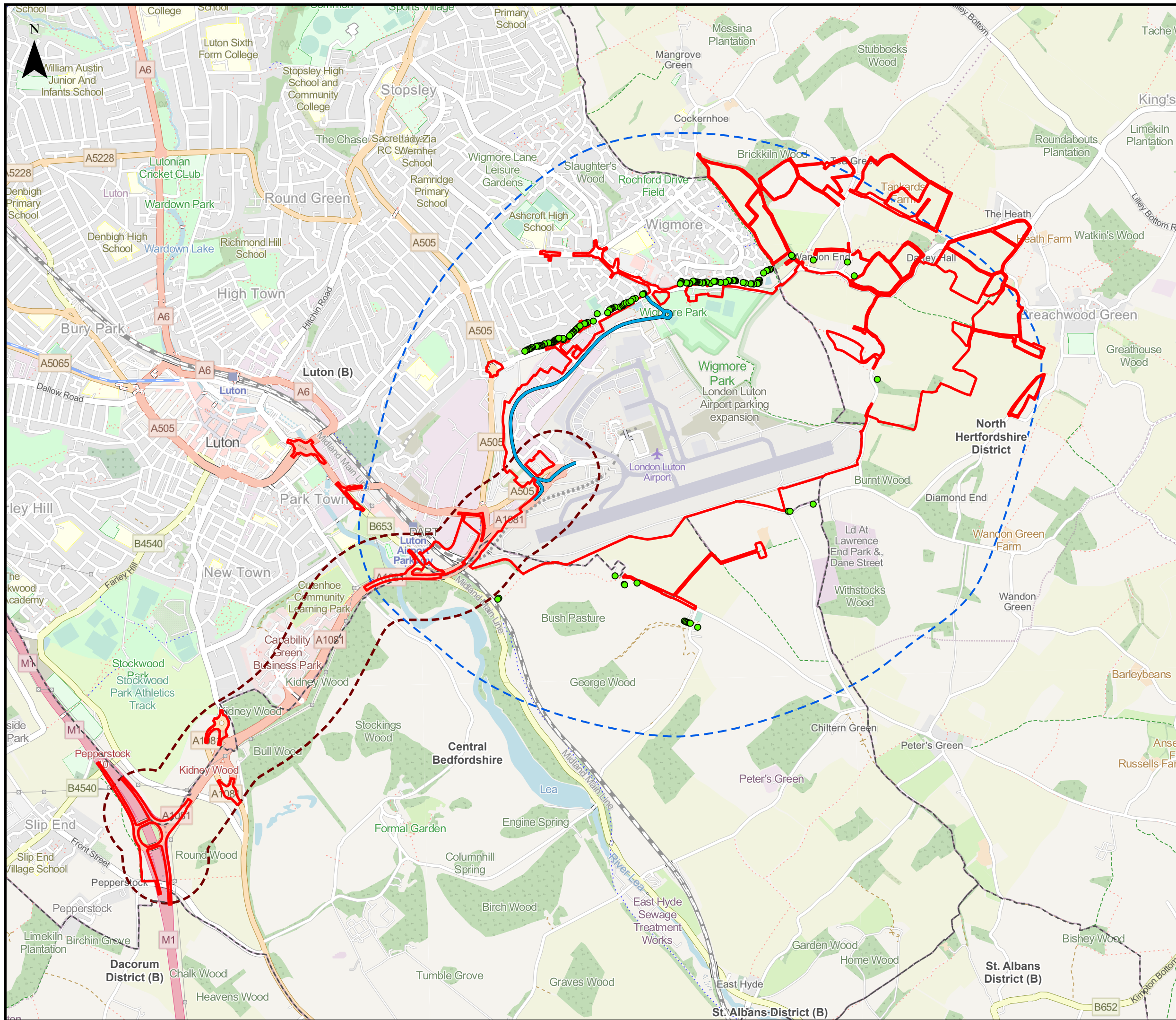
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Drawing Title
**Figure 16.1
 Air Noise and Surface Access Noise Study Area**

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn LP	Checked CSh	Approved CS	Date 31/01/23	Scale 1:170,000	Size A3
DCO Application Ref. TR020001		APFP Regulation APFP 5(2)(a)		DCO Document Ref. TR020001/APP/5.03	
Drawing Number LLADCO-3C-AEC-00-00-DR-YE-0001					Revision P01
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- Legend**
- Order Limits
 - Local Authority Boundary
 - Construction Haul Route - 300m Buffer
 - Ground and Construction Noise Study Area
 - Ground and Construction Noise Receptor
 - Airport Access Road (AAR)

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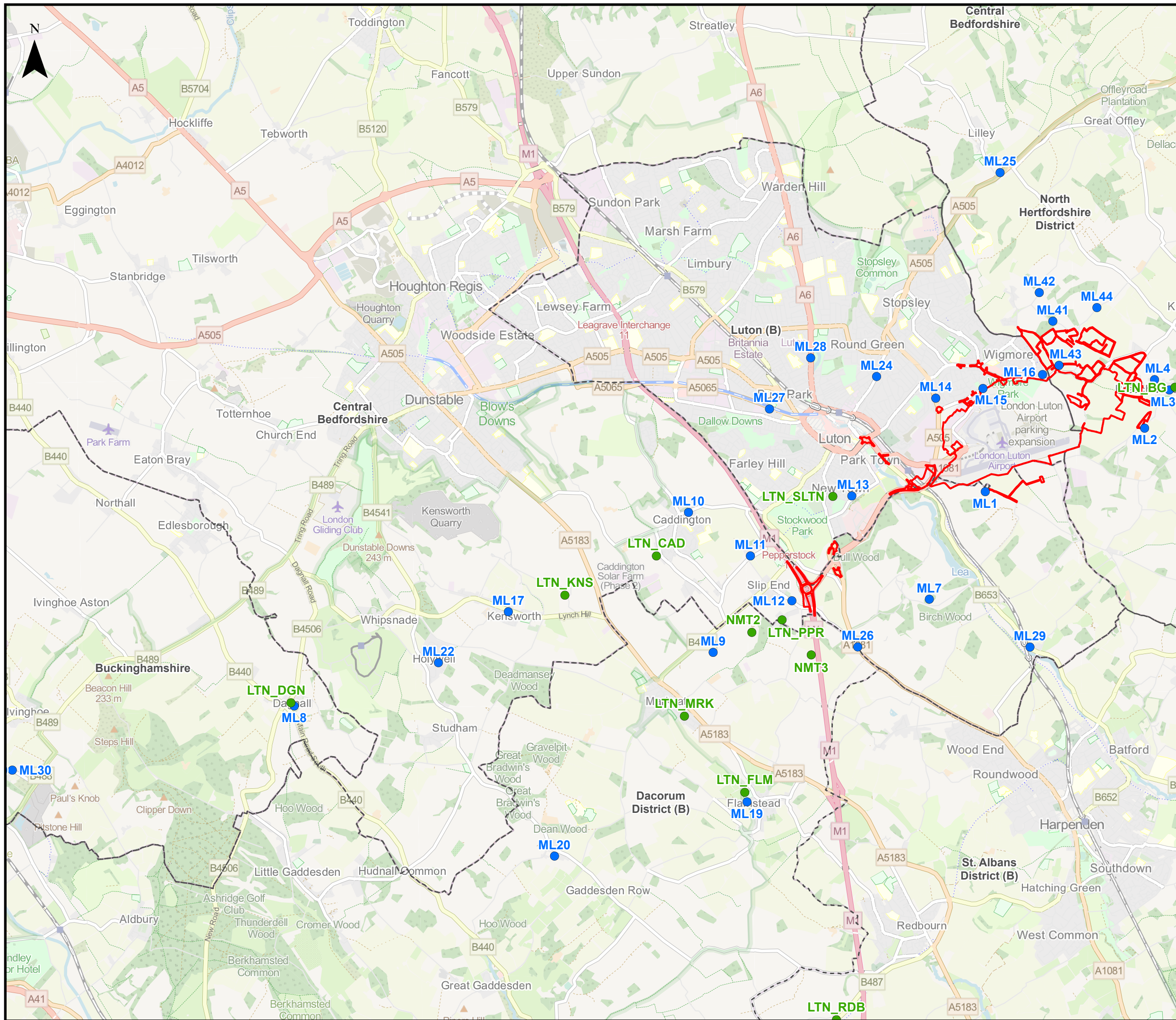
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Drawing Title
**Figure 16.2
 Construction Noise and Ground Noise Study Area**

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:25,000	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-0002	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



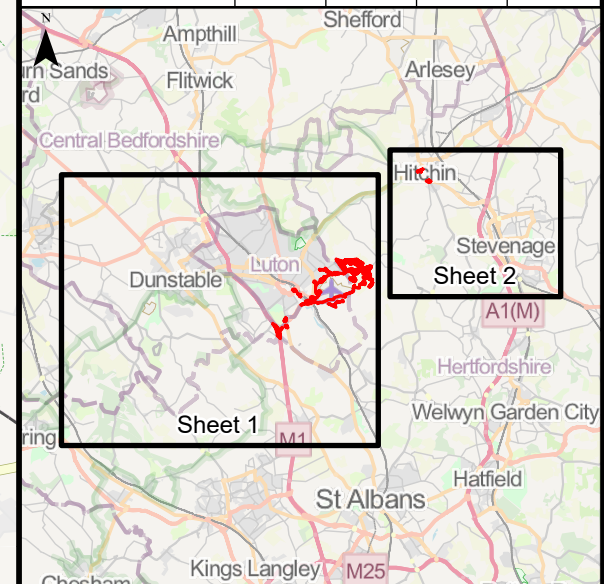
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- Legend**
- Local Authority Boundaries
 - Order Limits
 - Ambient Noise Monitoring Location
 - Aircraft Noise Monitoring Location

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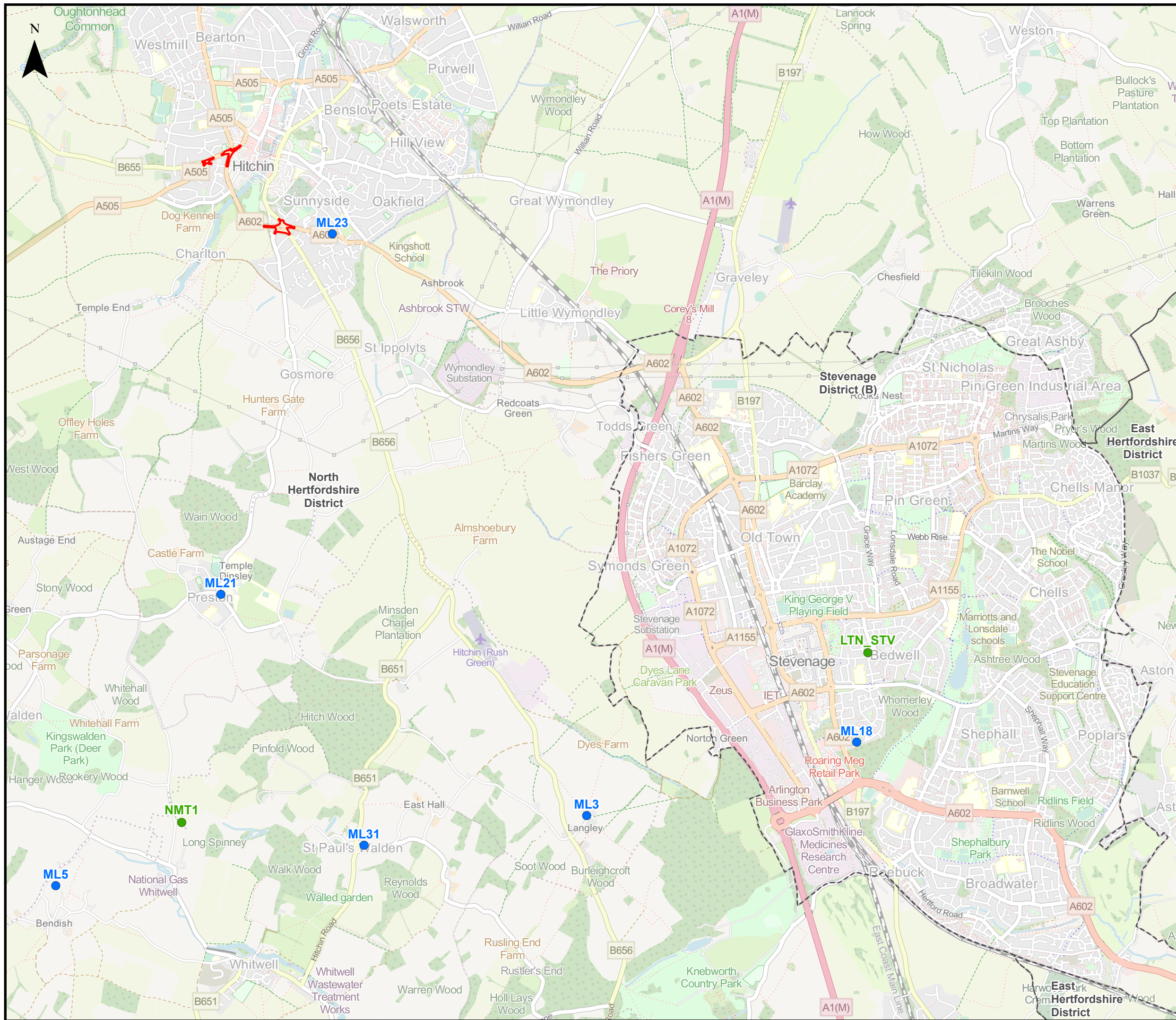
Drawing Title
**Figure 16.3
 Baseline Noise Monitoring Locations
 (Sheet 1 of 2)**

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	31/01/23	1:65,000	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-0003	P01

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



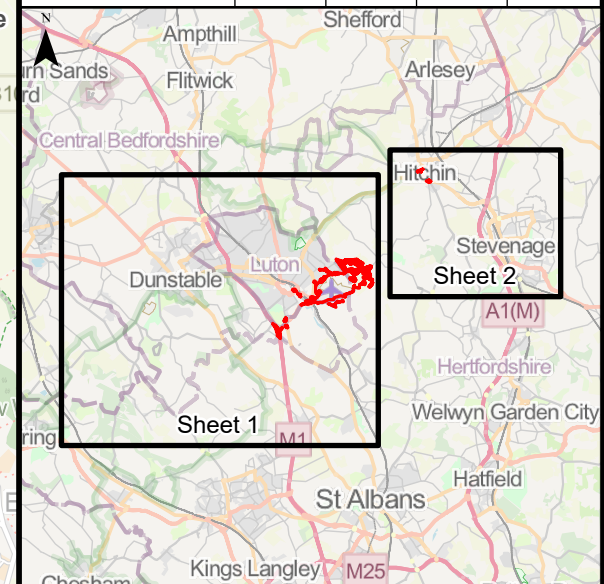
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- Legend**
- Local Authority Boundaries
 - Order Limits
 - Ambient Noise Monitoring Location
 - Aircraft Noise Monitoring Location

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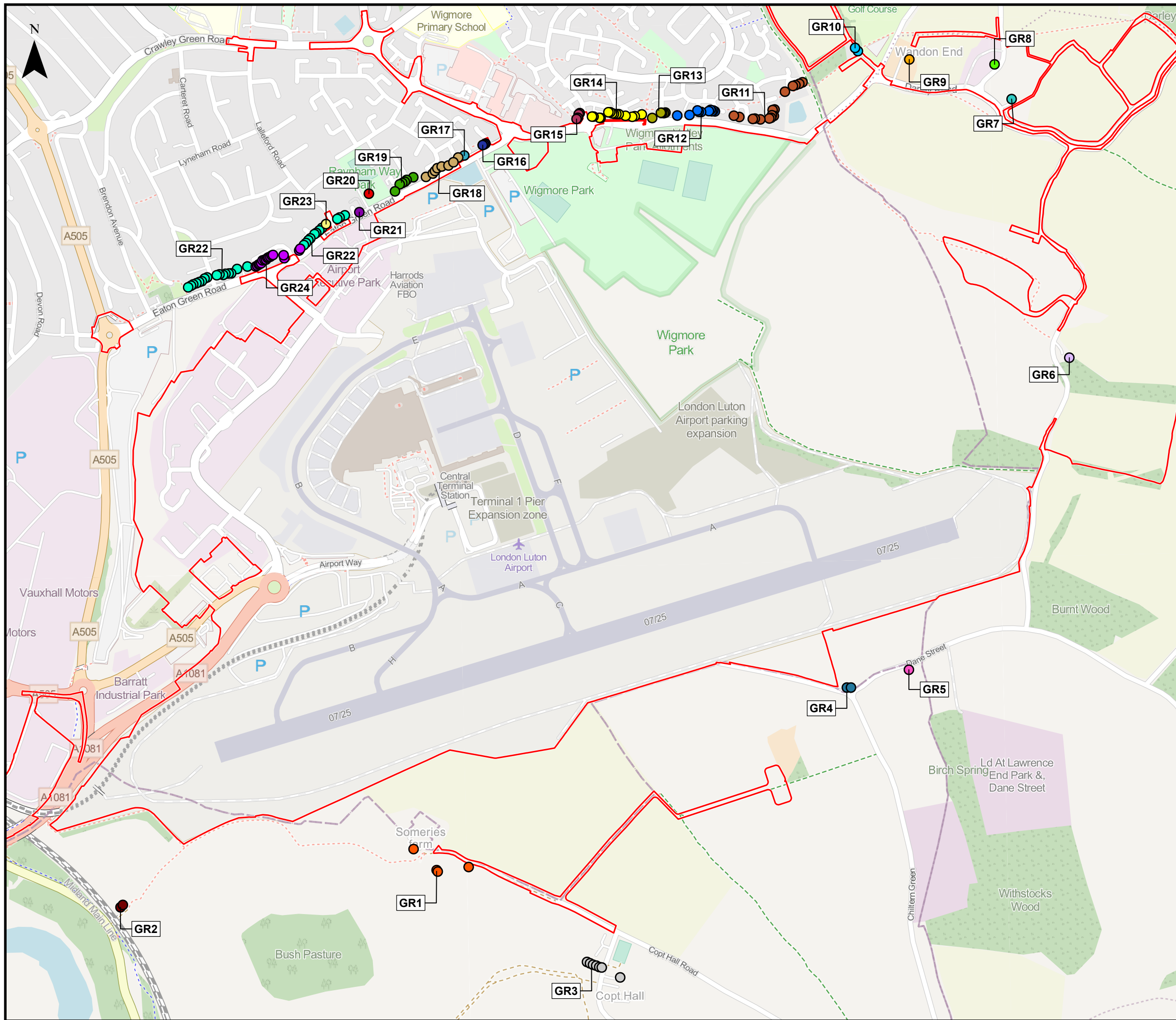
Drawing Title
**Figure 16.3
 Baseline Noise Monitoring Locations
 (Sheet 2 of 2)**

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSH	CS	31/01/23	1:35,000	A3	

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

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Legend

- Order Limits
- Assessment locations**
- Location ID (number of receptors)
- GR1 (4)
- GR2 (2)
- GR3 (7)
- GR4 (2)
- GR5 (1)
- GR6 (1)
- GR7 (1)
- GR8 (1)
- GR9 (1)
- GR10 (2)
- GR11 (16)
- GR12 (10)
- GR13 (5)
- GR14 (14)
- GR15 (4)
- GR16 (3)
- GR17 (1)
- GR18 (8)
- GR19 (6)
- GR20 (1)
- GR21 (1)
- GR22 (27)
- GR23 (1)
- GR24 (17)

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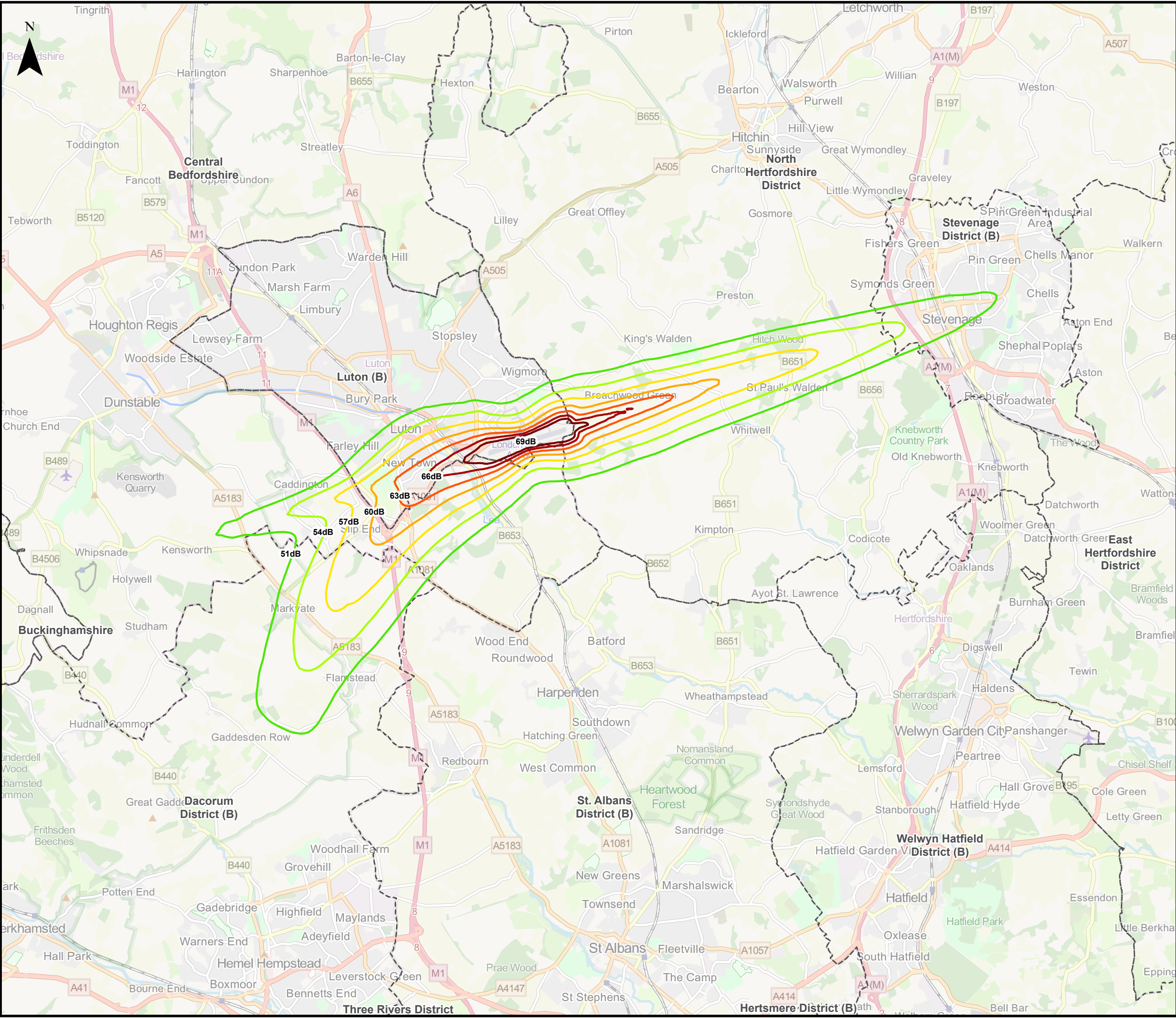
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Drawing Title
**Figure 16.4
 Construction Noise and Ground Noise Assessment Locations**

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:10,000	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-0004	P01
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Legend

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2019 Actuals 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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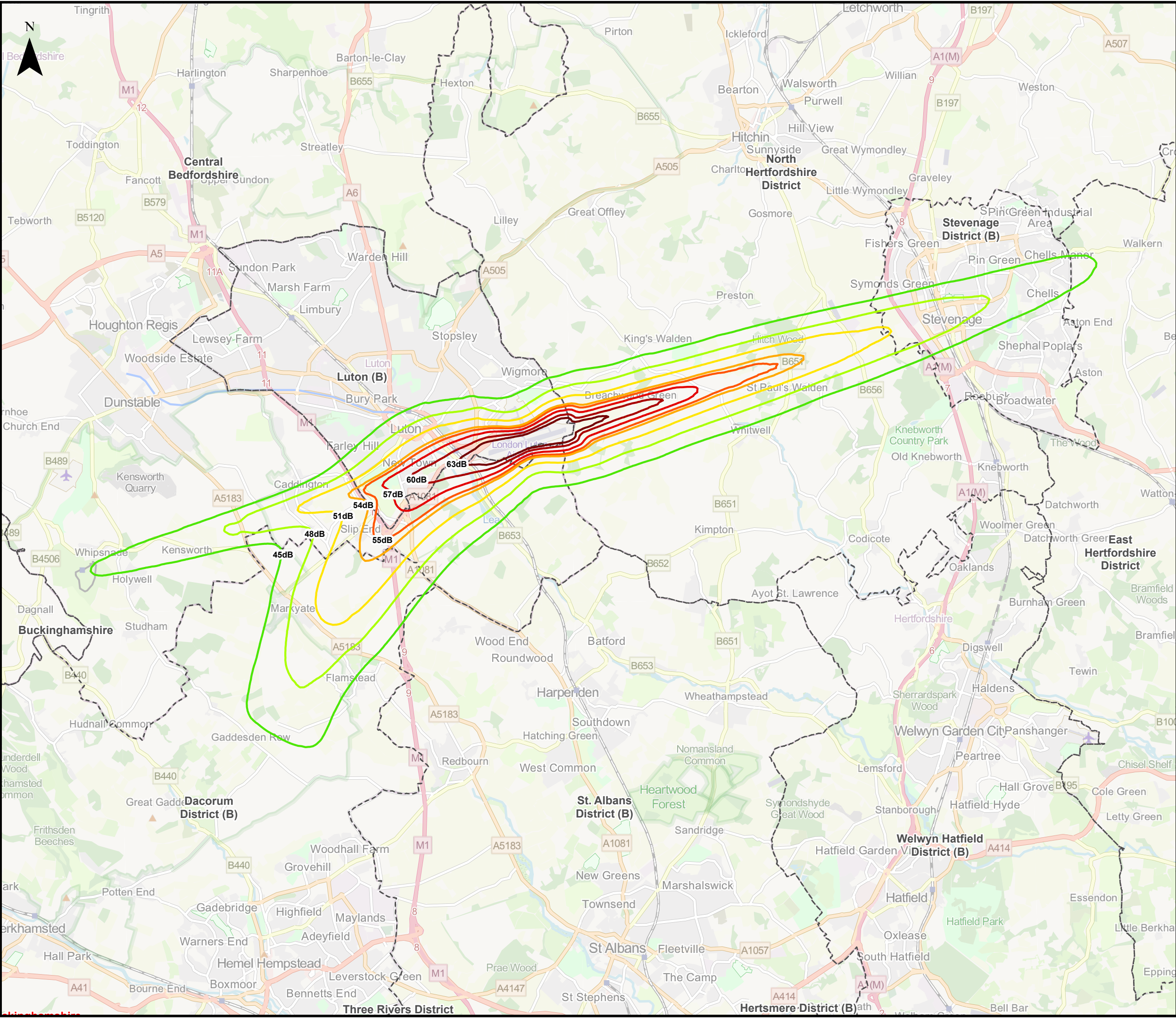
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Drawing Title
**Figure 16.5
 Extent of 2019 Actuals Daytime LAeq,16h
 Air Noise Contours**

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn LP	Checked CS	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
- Air Noise Contours in Decibels (dB) (2019 Actuals 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)

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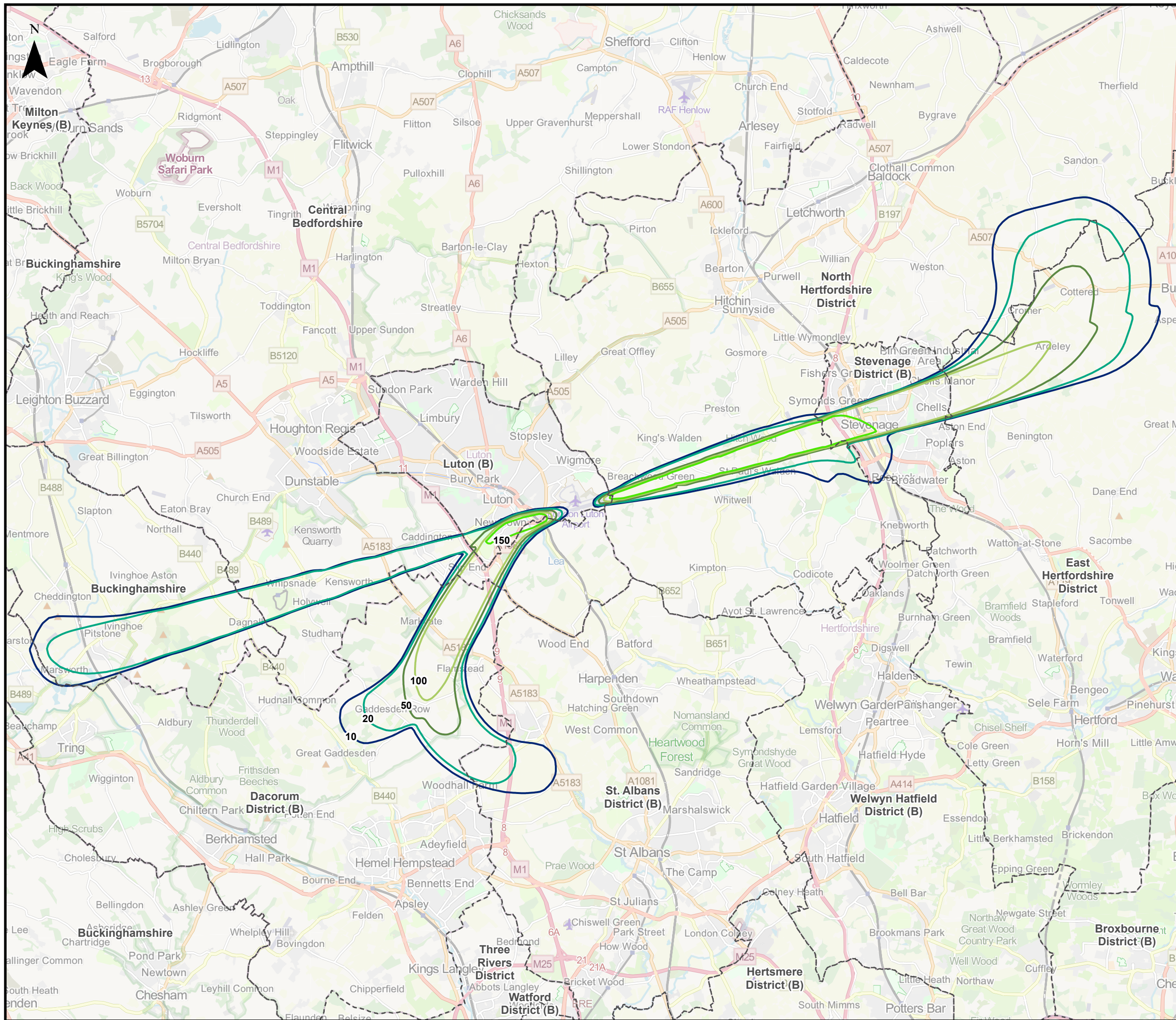
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Drawing Title
**Figure 16.6
Extent of 2019 Actuals Night-time LAeq,8h
Air Noise Contours**

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn LP	Checked CS	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

Number of overflights per day (07:00 – 23:00) up to 4,000ft (2019 Actuals)

- 10
- 20
- 50
- 100
- 150

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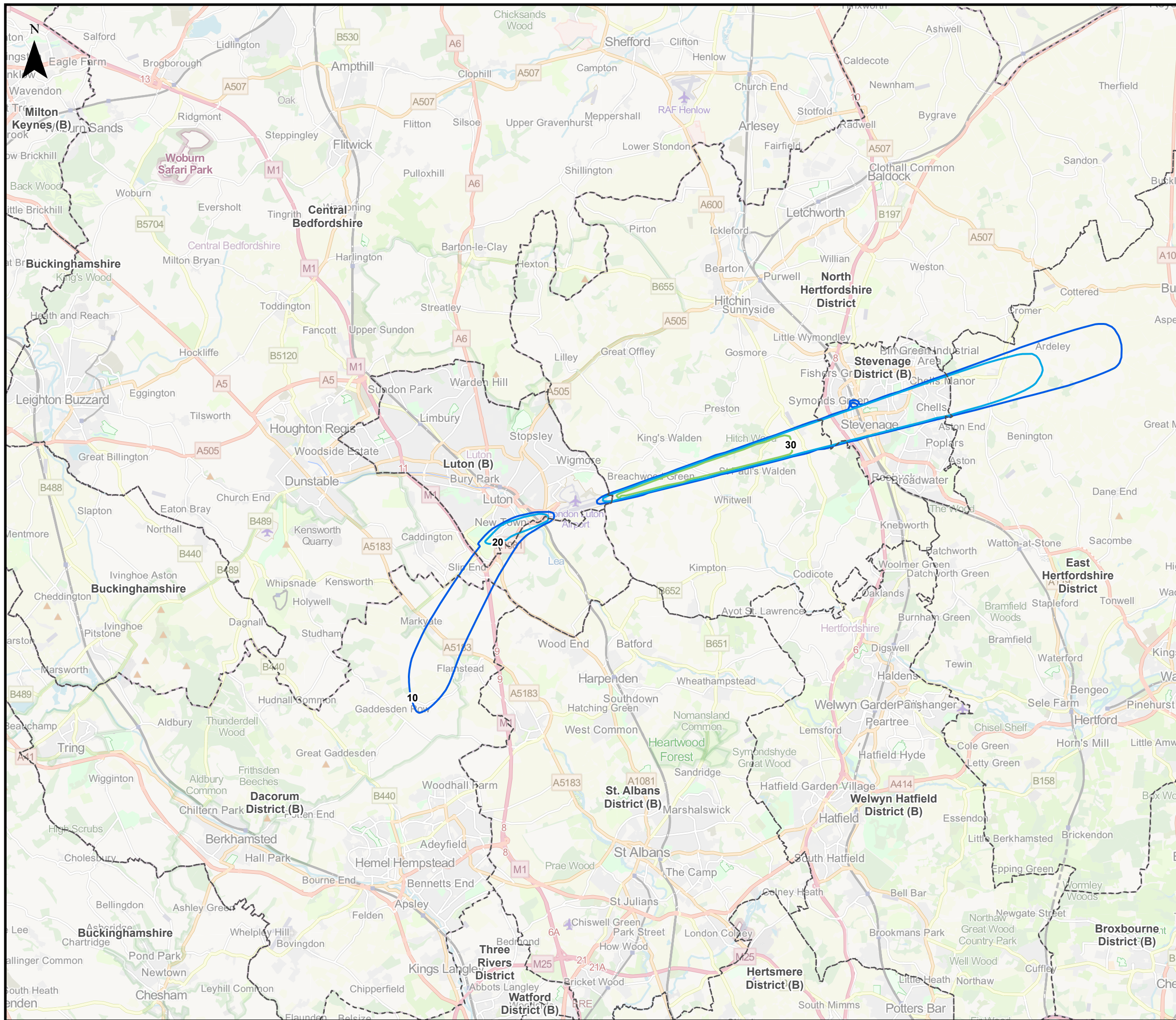
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Drawing Title: **Figure 16.7**
Extent of 2019 Actuals Daytime Overflight Contours up to 4,000 feet

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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Legend

--- Local Authority Boundaries

Number of overflights per night (23:00 – 07:00) up to 4,000ft (2019 Actuals)

- █ 10
- █ 20
- █ 30

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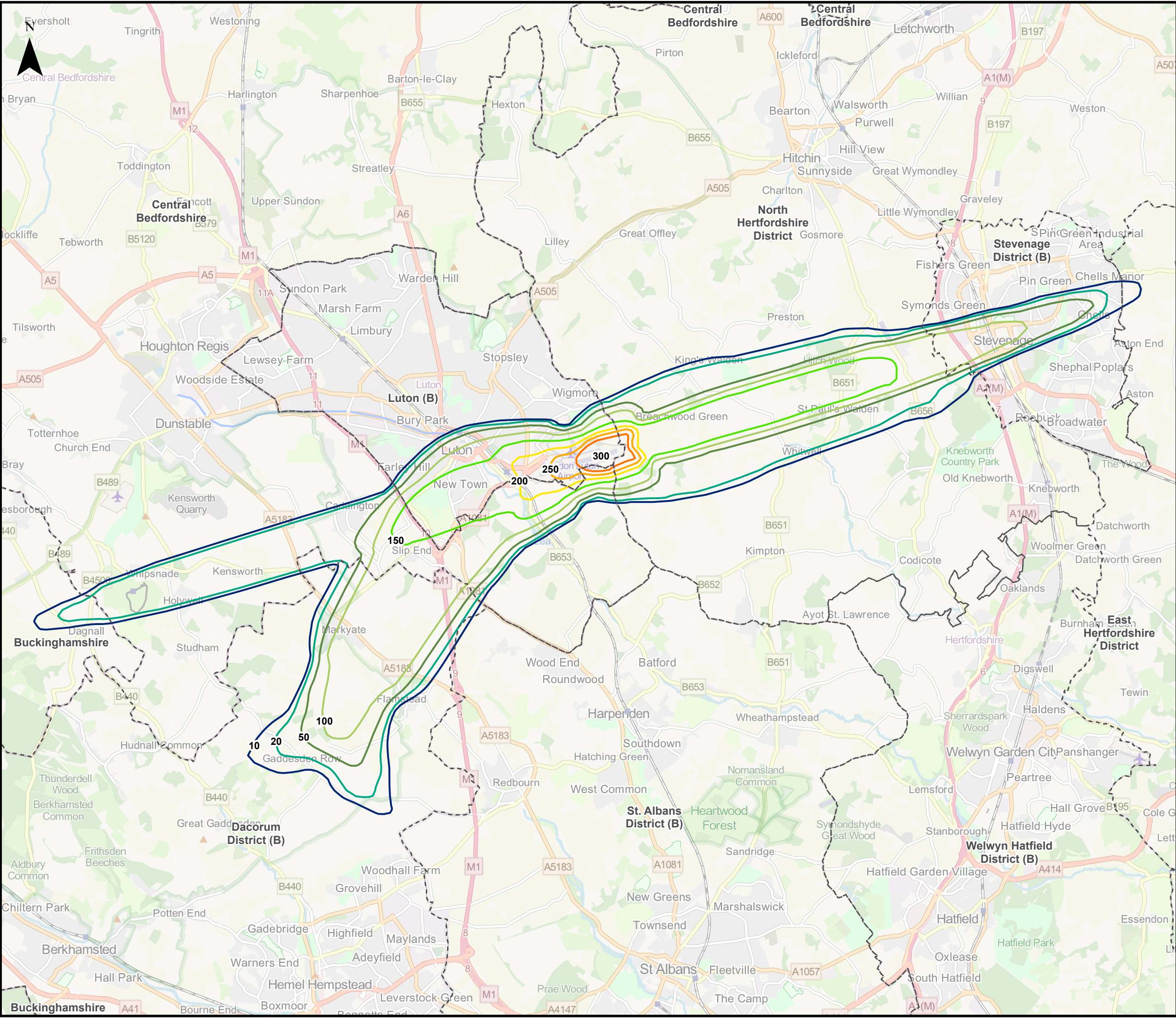
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Drawing Title: **Figure 16.8**
Extent of 2019 Actuals Night-time Overflight Contours up to 4,000 feet

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

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Legend

- Local Authority Boundaries
- Air Noise Contours (2019 Actuals Daytime number of aircraft above 65 Decibels (dB) LASmax (N65))**
- 10
- 20
- 50
- 100
- 150
- 200
- 250
- 300

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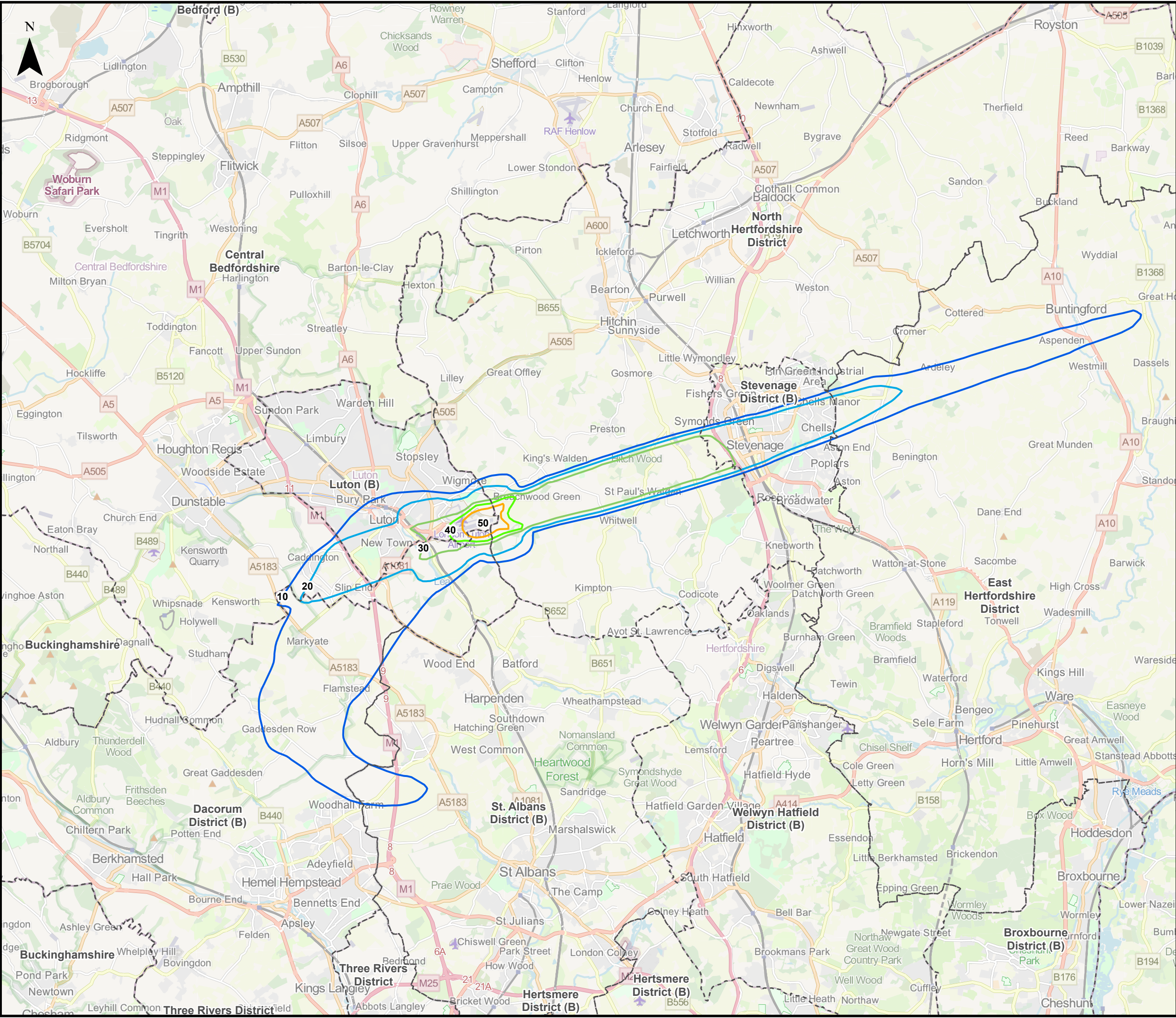
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Drawing Title: **Figure 16.9**
Extent of 2019 Actuals Daytime number of aircraft above 65 Decibels (dB) LASmax (N65) Air Noise Contours

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

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Legend

- Local Authority Boundaries
- Air Noise Contours (2019 Actuals Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**
- 10
- 20
- 30
- 40
- 50

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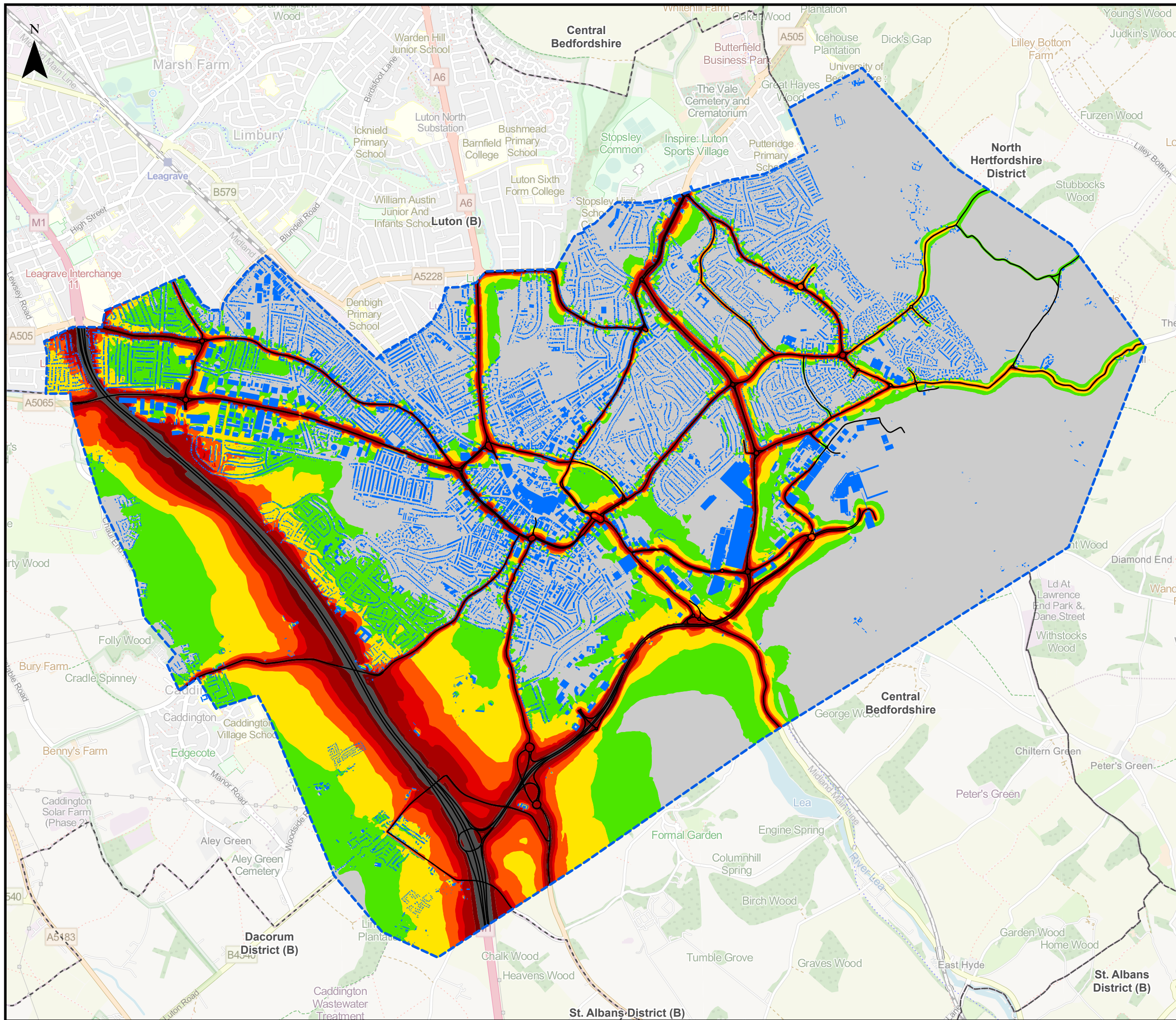
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Drawing Title: **Figure 16.10**
 Extent of 2019 Actuals Night-time number of aircraft above 60 Decibels (dB) LASmax (N60) Air Noise Contours

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

DCO Application Ref.	APFP Regulation	DCO Document Ref.
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Legend

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

Surface Access Noise Contours in Decibels (dB) (2016 Baseline 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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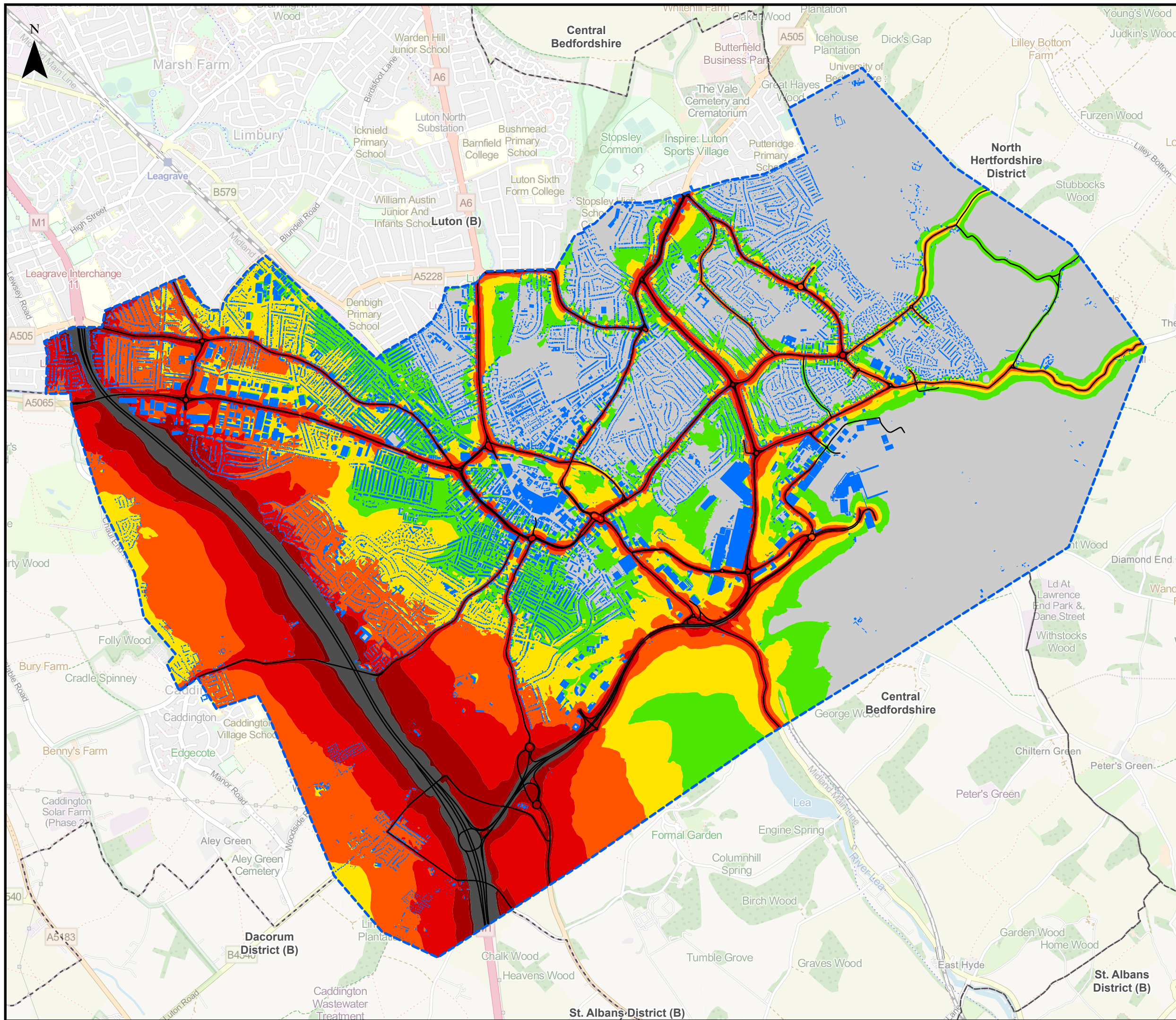
Drawing Title: **Figure 16.11**
 Extent of 2016 Daytime LAeq,16h Surface Access Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSH	CS	31/01/23	1:30,000	A3	

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Legend

- Local Authority Boundaries
 - Surface Access Noise Calculation Area
 - Building
- Surface Access Noise Contours in Decibels (dB) (2016 Baseline 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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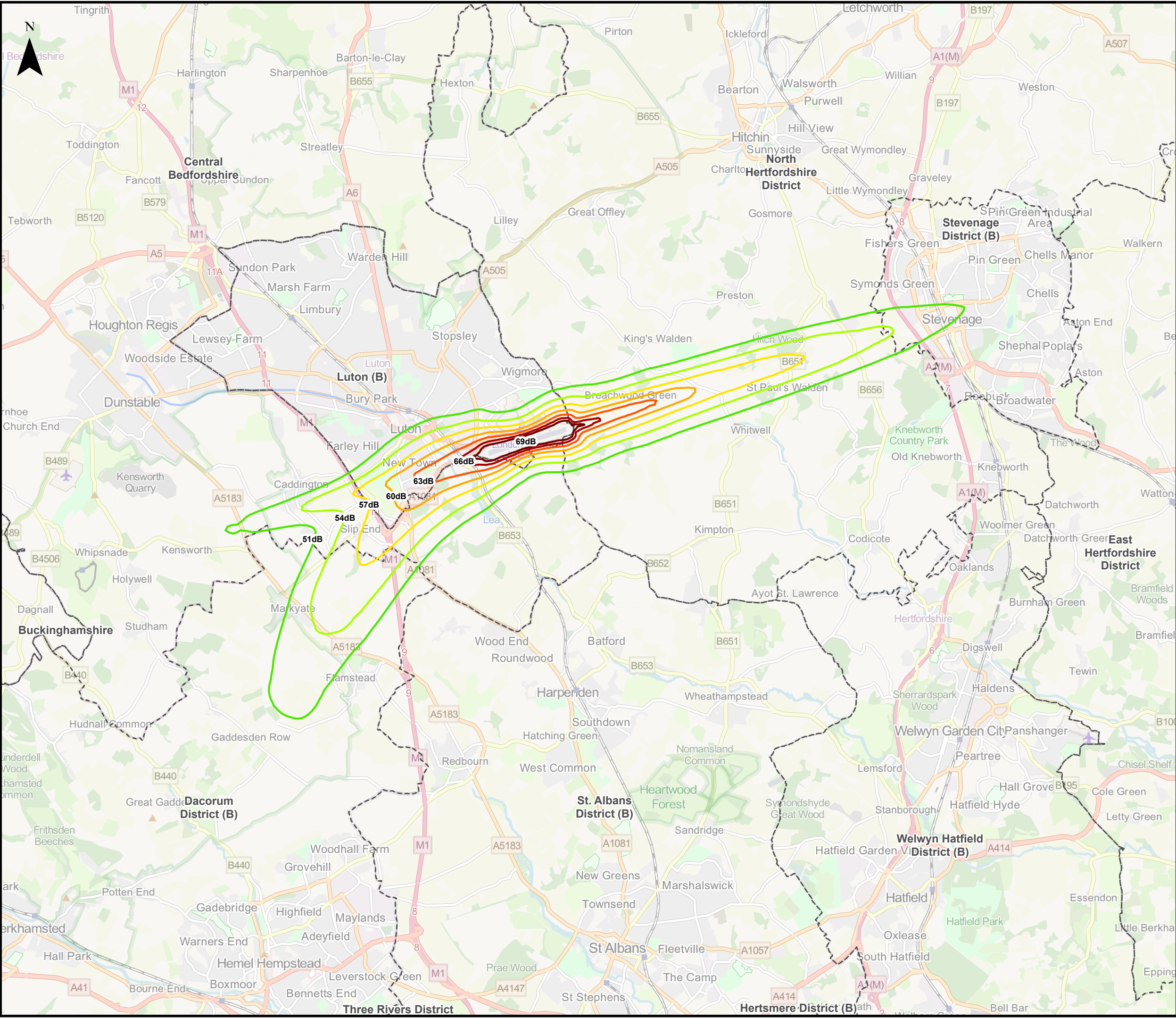
Drawing Title
**Figure 16.12
 Extent of 2016 Night-time LAeq,8h
 Surface Access Noise Contours**

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
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Legend

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2027 Do-Minimum 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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Revision History	Drawn	Checked	Approved	Date	Rev.

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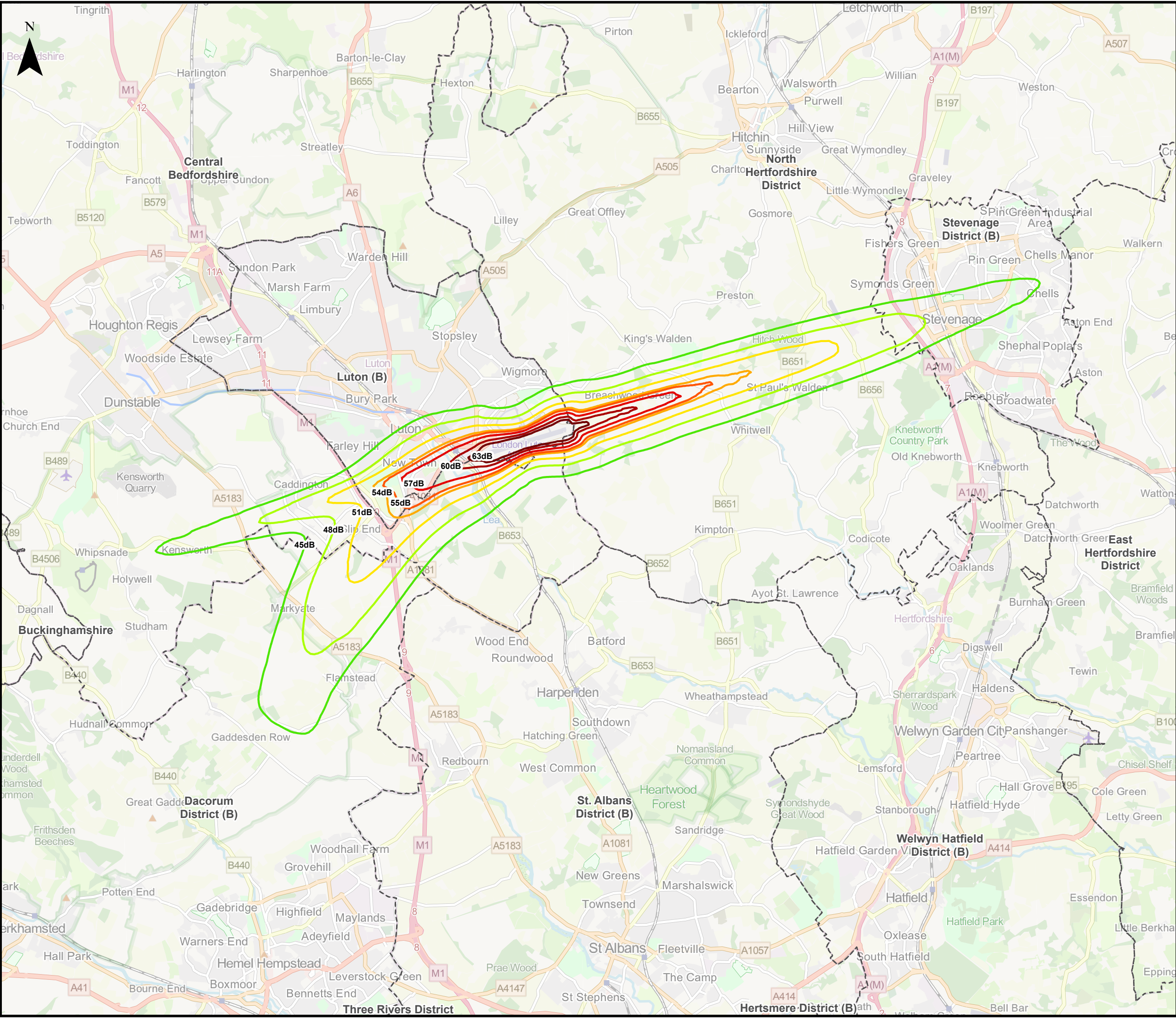
London Luton Airport Expansion Development Consent Order

Drawing Title
**Figure 16.13
 Extent of 2027 Do-Minimum 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-0013	Revision P01
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- Legend**
- Local Authority Boundaries
 - Air Noise Contours in Decibels (dB) (2027 Do-Minimum 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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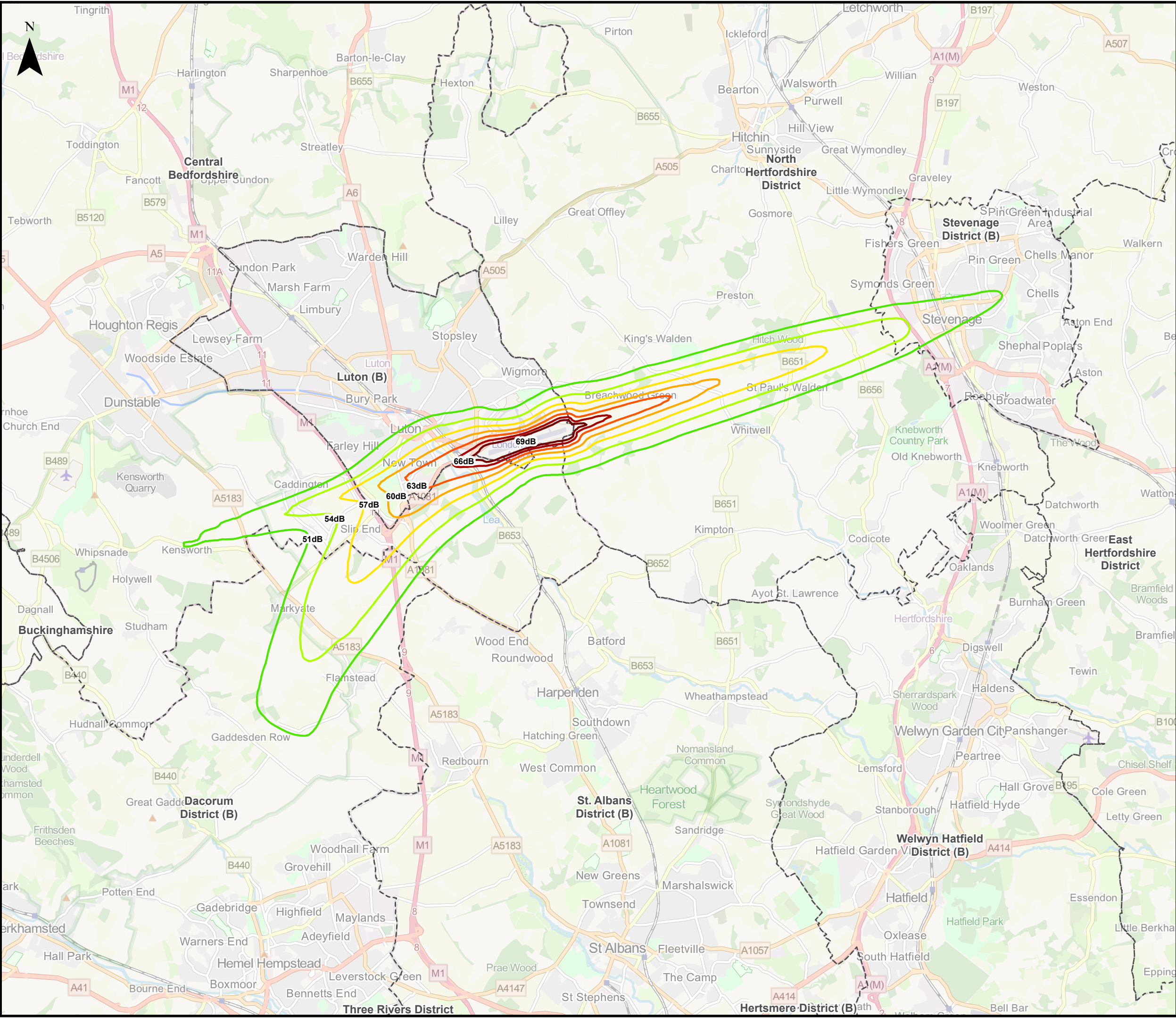
London Luton Airport Expansion Development Consent Order

Drawing Title: **Figure 16.14**
Extent of 2027 Do-Minimum 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-0014	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2027 Daytime Do-Something 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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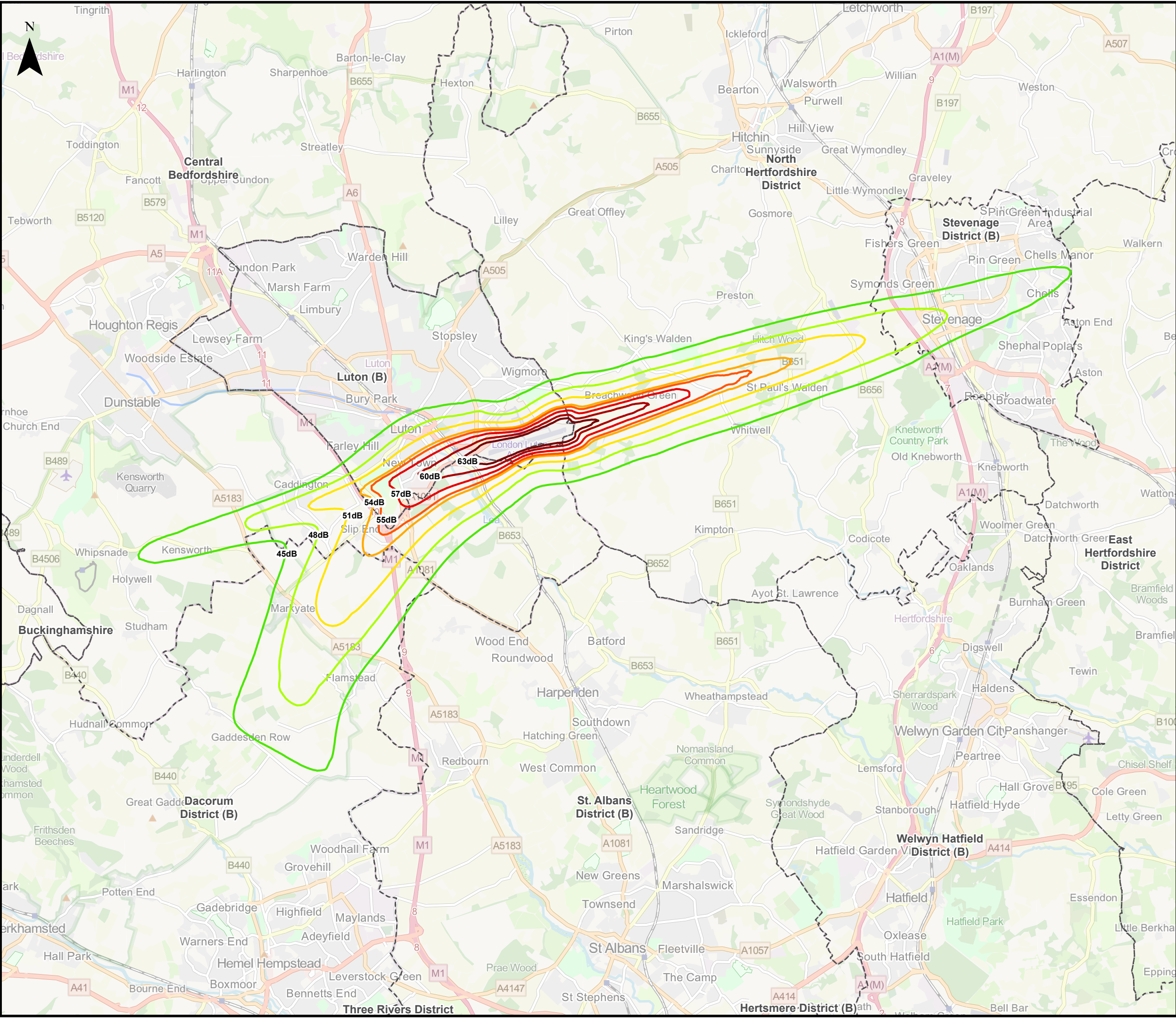
London Luton Airport Expansion Development Consent Order

Drawing Title
**Figure 16.15
 Extent of 2027 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-0015	Revision P01
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Legend

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2027 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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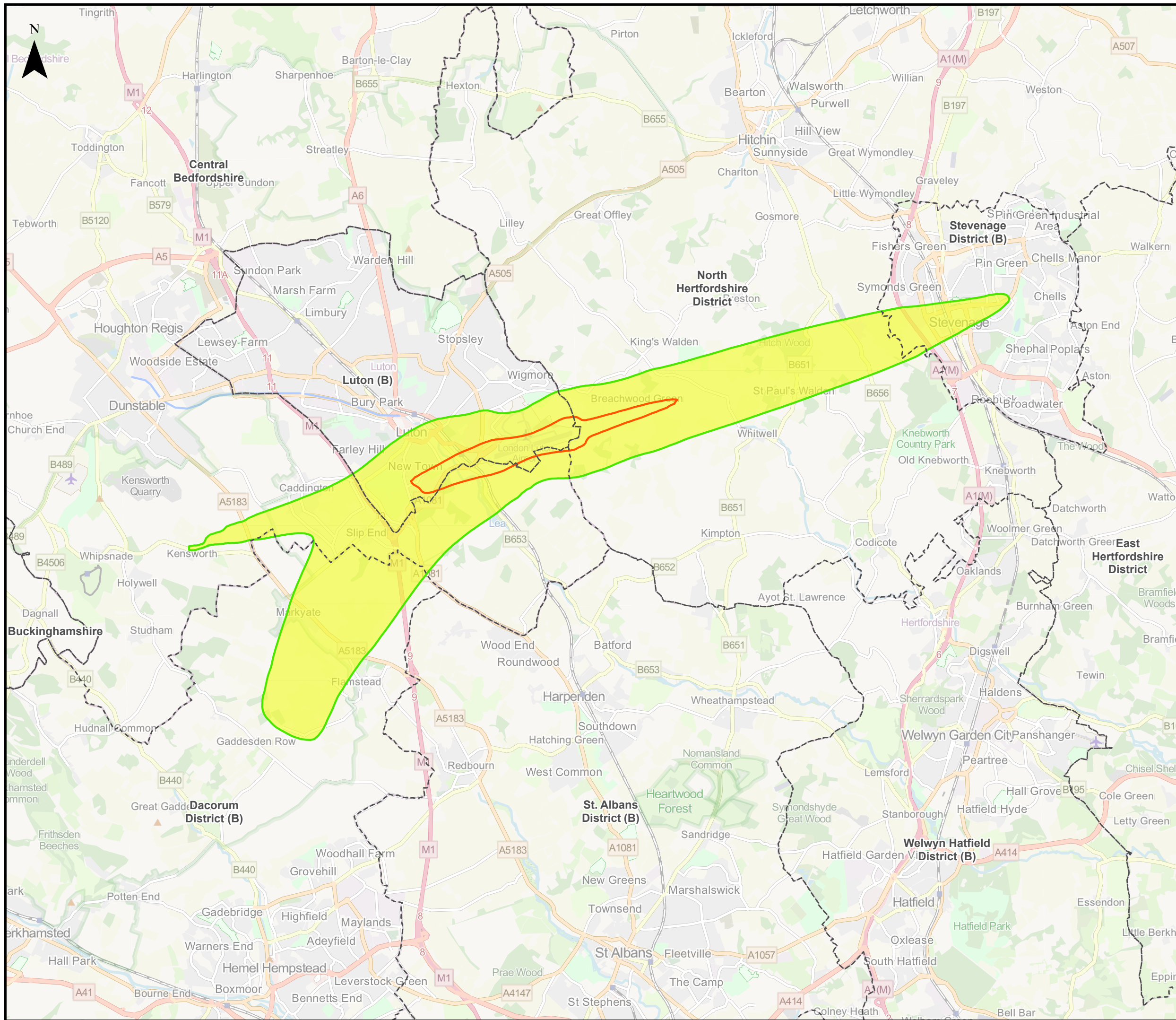
London Luton Airport Expansion Development Consent Order

Drawing Title
Figure 16.16
Extent of 2027 Do-Something Night-time LAeq,8h 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-0016	Revision P01
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Legend

- Local Authority Boundaries

Change in 2027 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) (2027 Do-something Daytime LAeq,16h)

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

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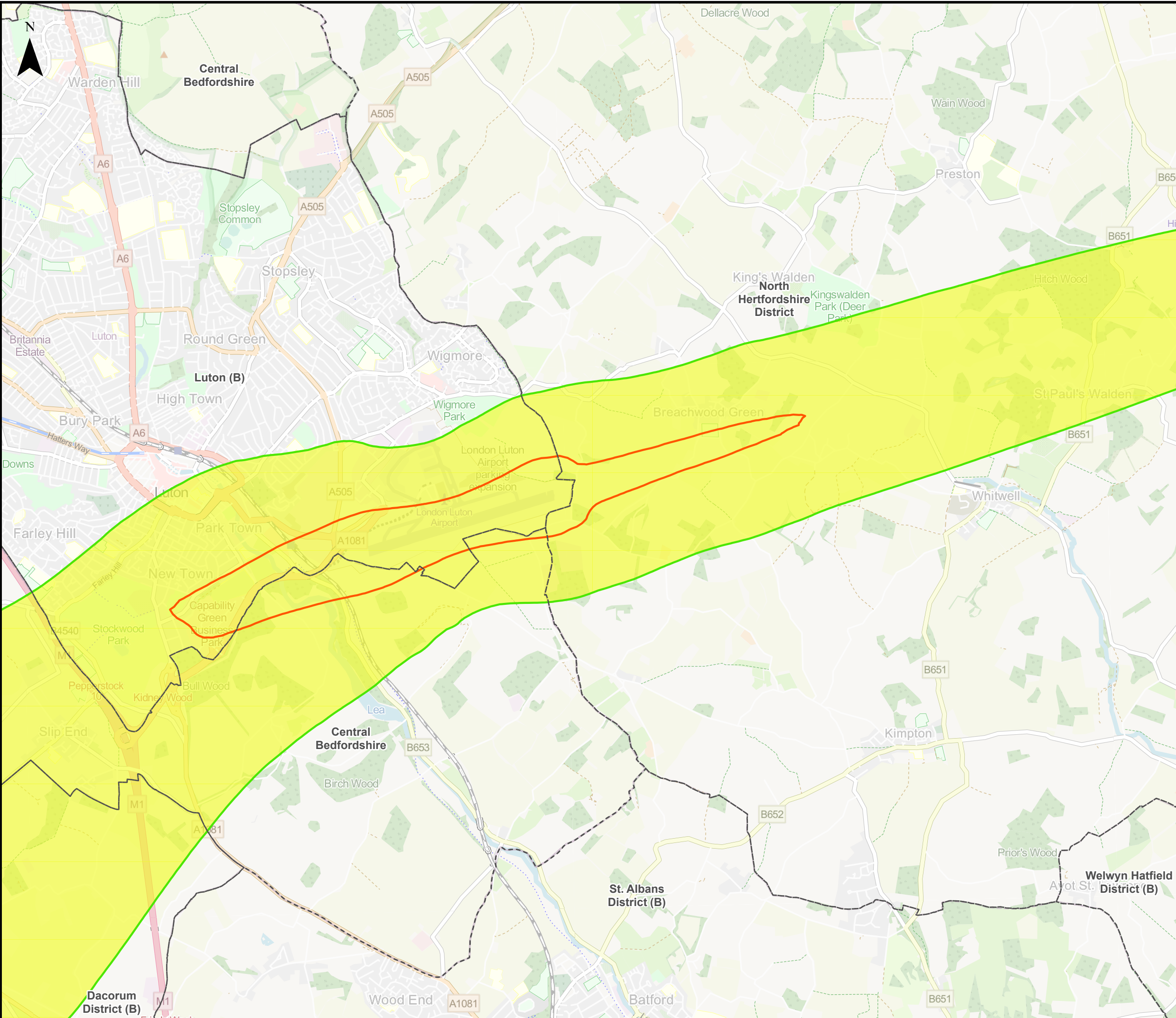
Drawing Title: **Figure 16.17a**
Change in 2027 Do-Something - Do-Minimum Daytime LAeq,16h Air Noise Contours

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0017	P01

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



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Legend

- Local Authority Boundaries
- Change in 2027 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) (2027 Do-something Daytime LAeq,16h)**
 - 51dB - Lowest Observed Adverse Effect Level (LOAEL)
 - 63dB - Significant Observed Adverse Effect Level (SOAEL)

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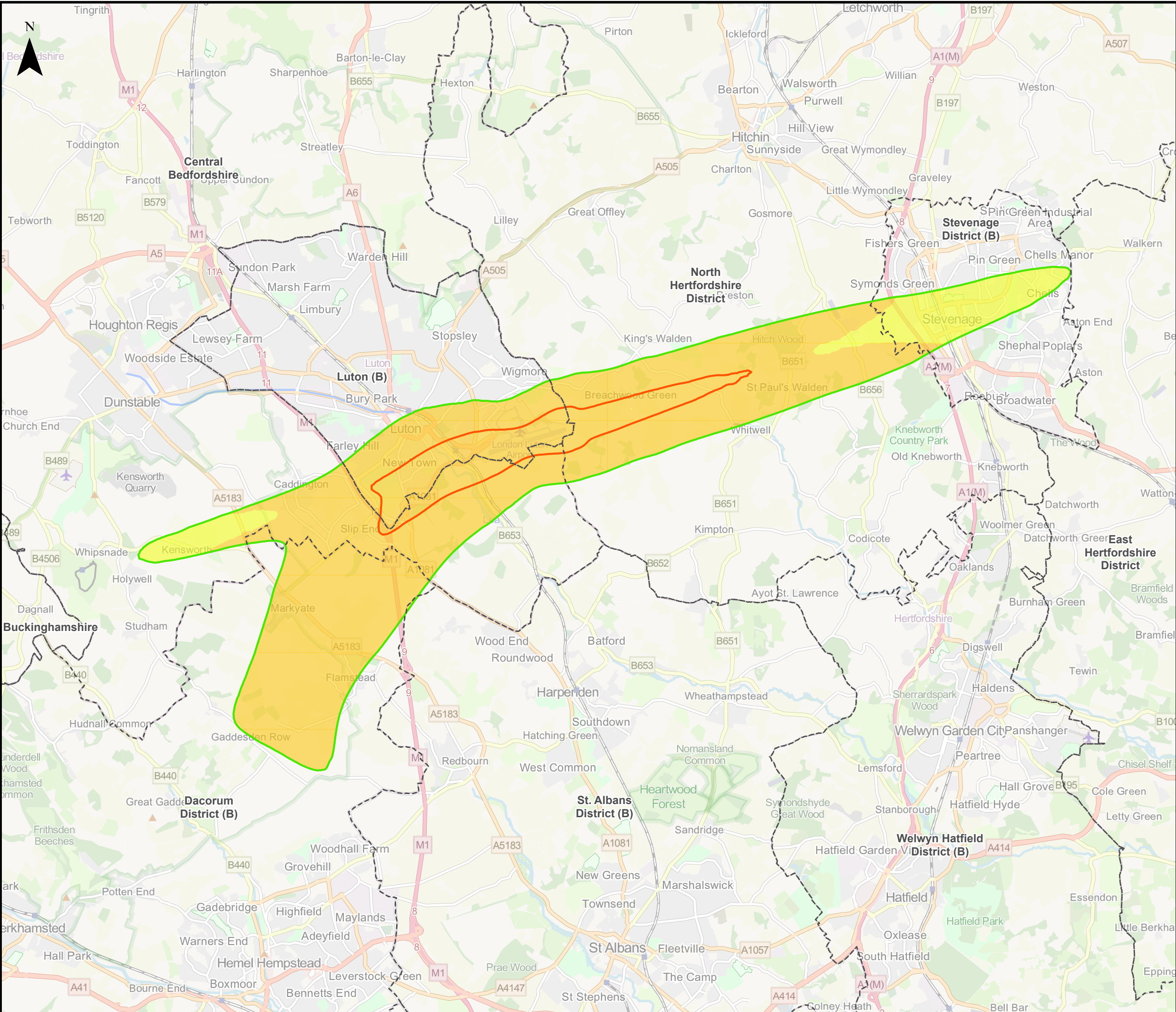
Drawing Title: Figure 16.17b
 Change in 2027 Do-Something - Do-Minimum Daytime LAeq,16h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)

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-0097	P01

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



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Legend

- Local Authority Boundaries

Change in 2027 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) (2027 Do-something Night-time LAeq,8h)

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

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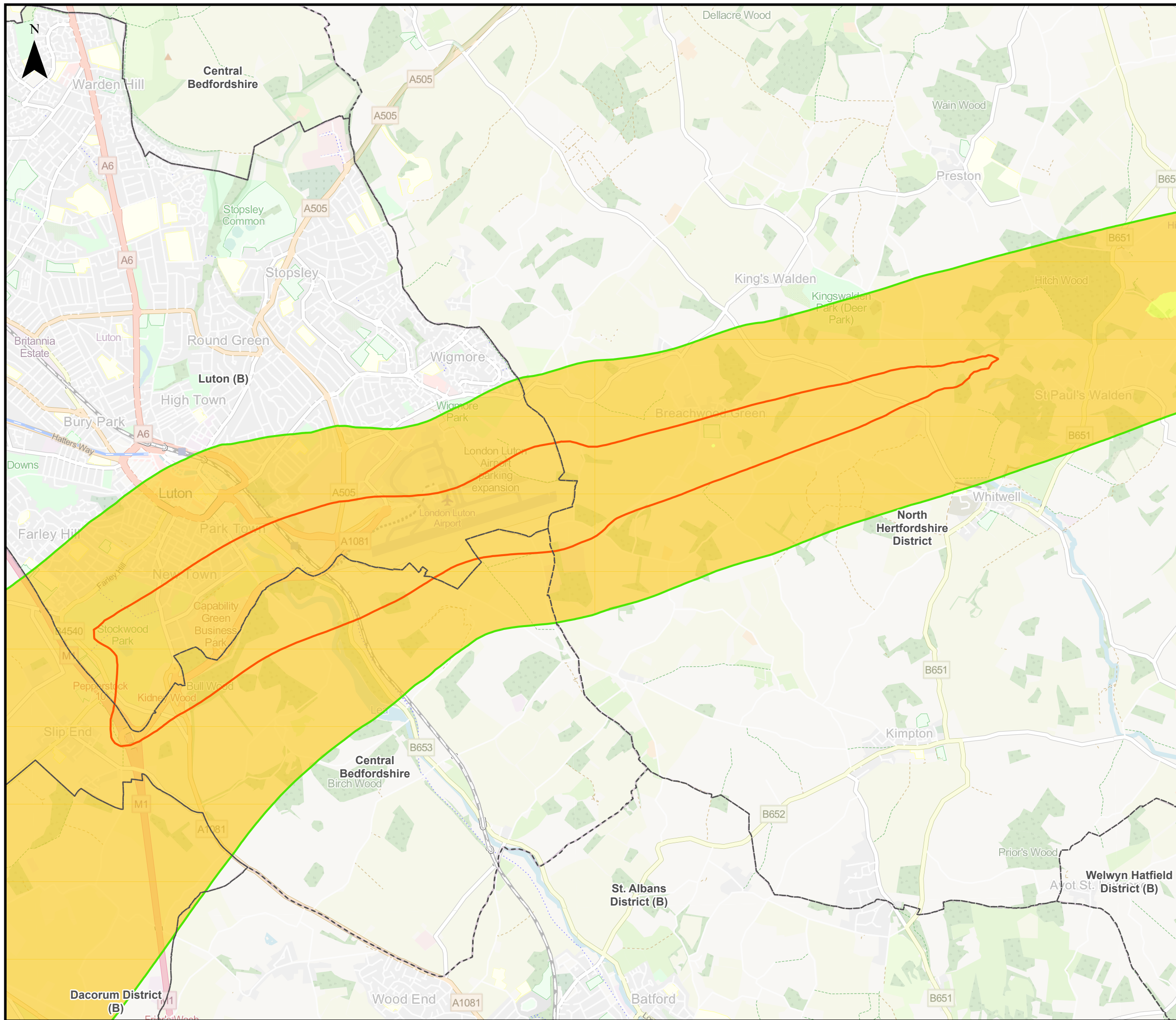
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Drawing Title: **Figure 16.18a**
Change in 2027 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0018	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Local Authority Boundaries

Change in 2027 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) (2027 Do-something Night-time LAeq,8h)

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

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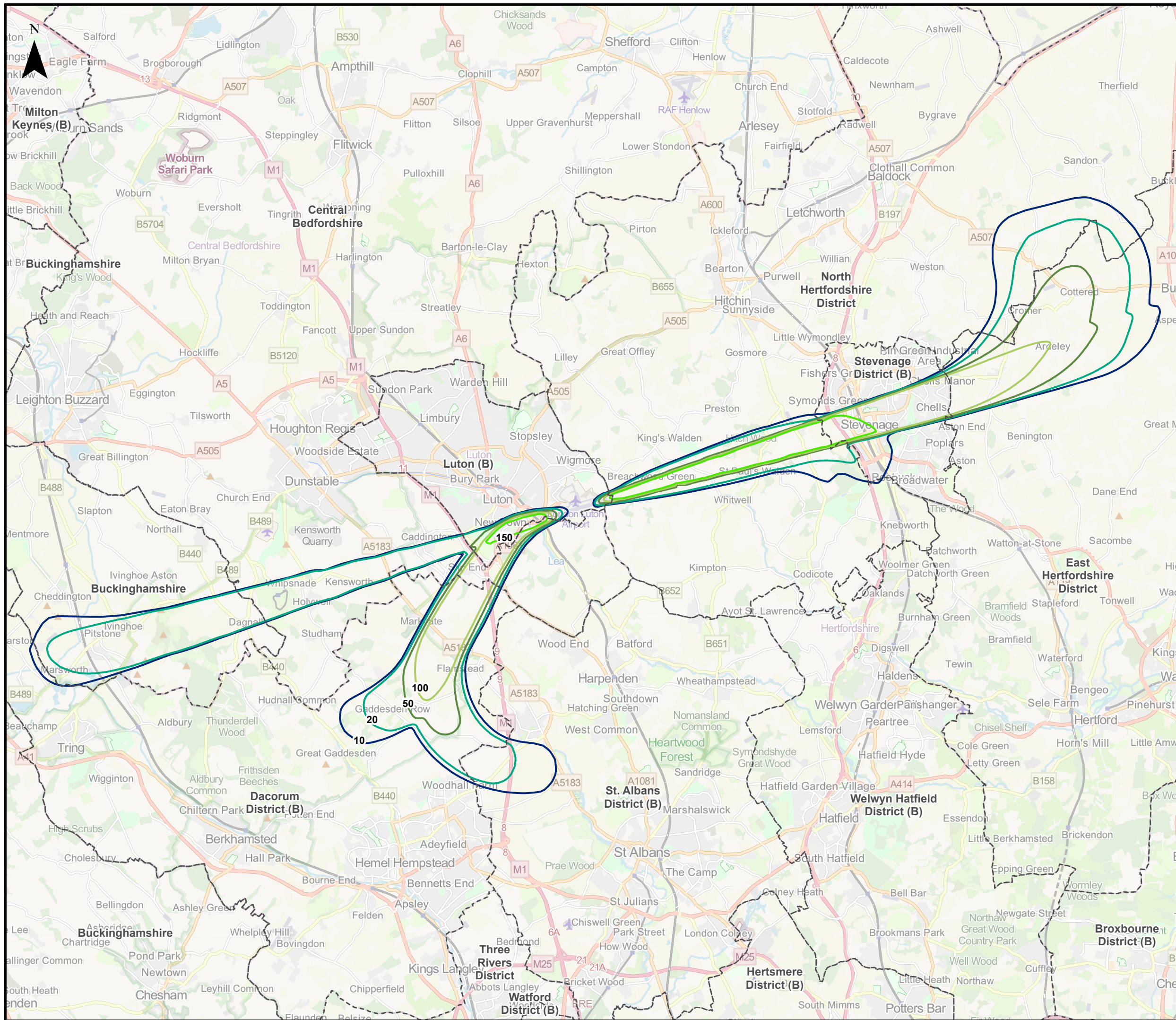
Drawing Title **Figure 16.18b**
Change in 2027 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0098	P01

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Legend

- Local Authority Boundaries

Number of overflights per day (07:00 – 23:00) up to 4,000ft (All assessment years Do-Minimum)

- 10
- 20
- 50
- 100
- 150

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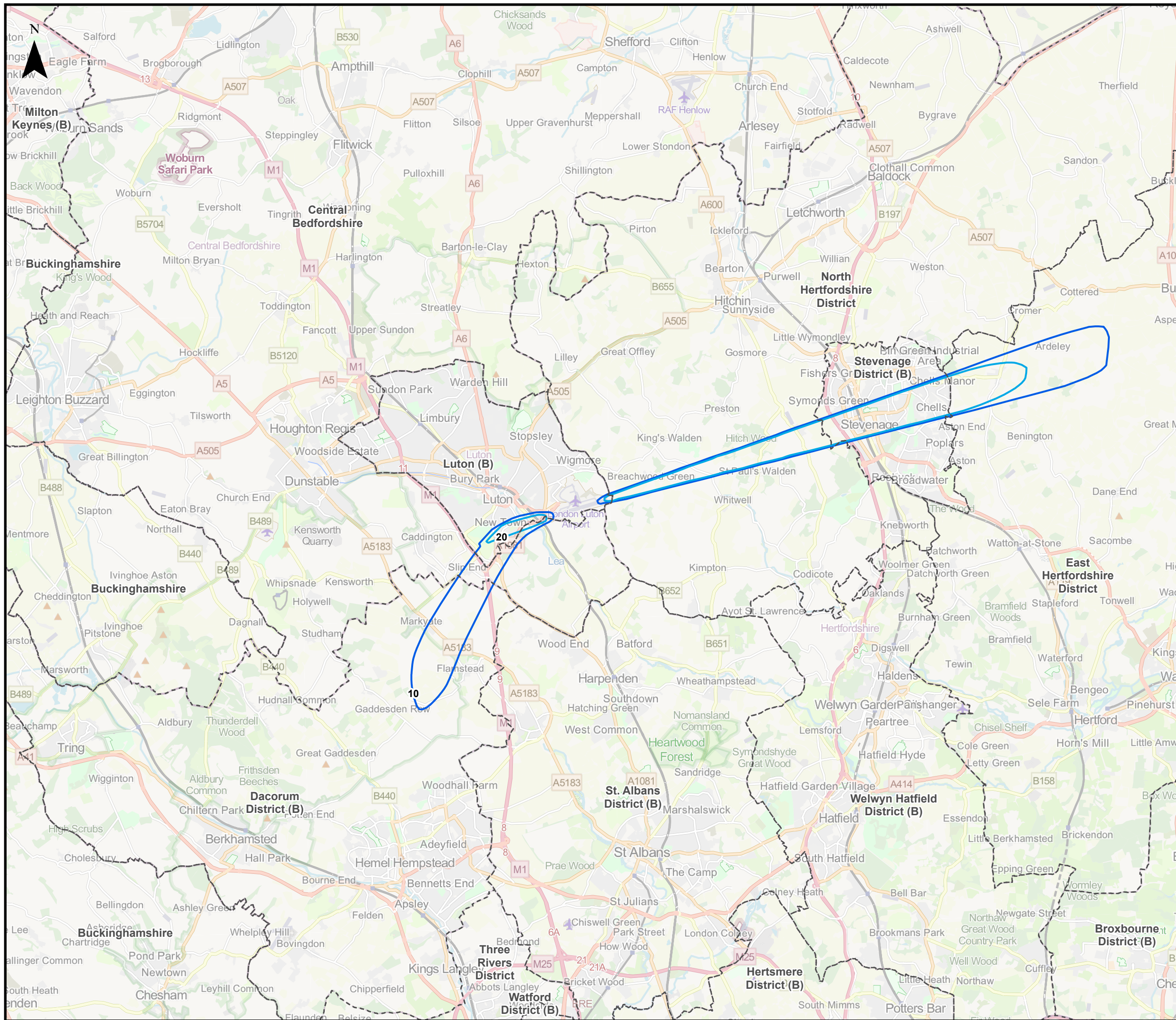
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Drawing Title: Figure 16.19
Extents of All assessment years Do-Minimum Daytime Overflight Contours up to 4,000 feet

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0019	P01
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Legend

Local Authority Boundaries

Number of overflights per night (23:00 – 07:00) up to 4,000ft (All assessment years Do-Minimum)

- 10
- 20

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Drawing Title
Figure 16.20
Extents of All assessment years Do-Minimum 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
LLADCO-3C-AEC-00-00-DR-YE-0020	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	