

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

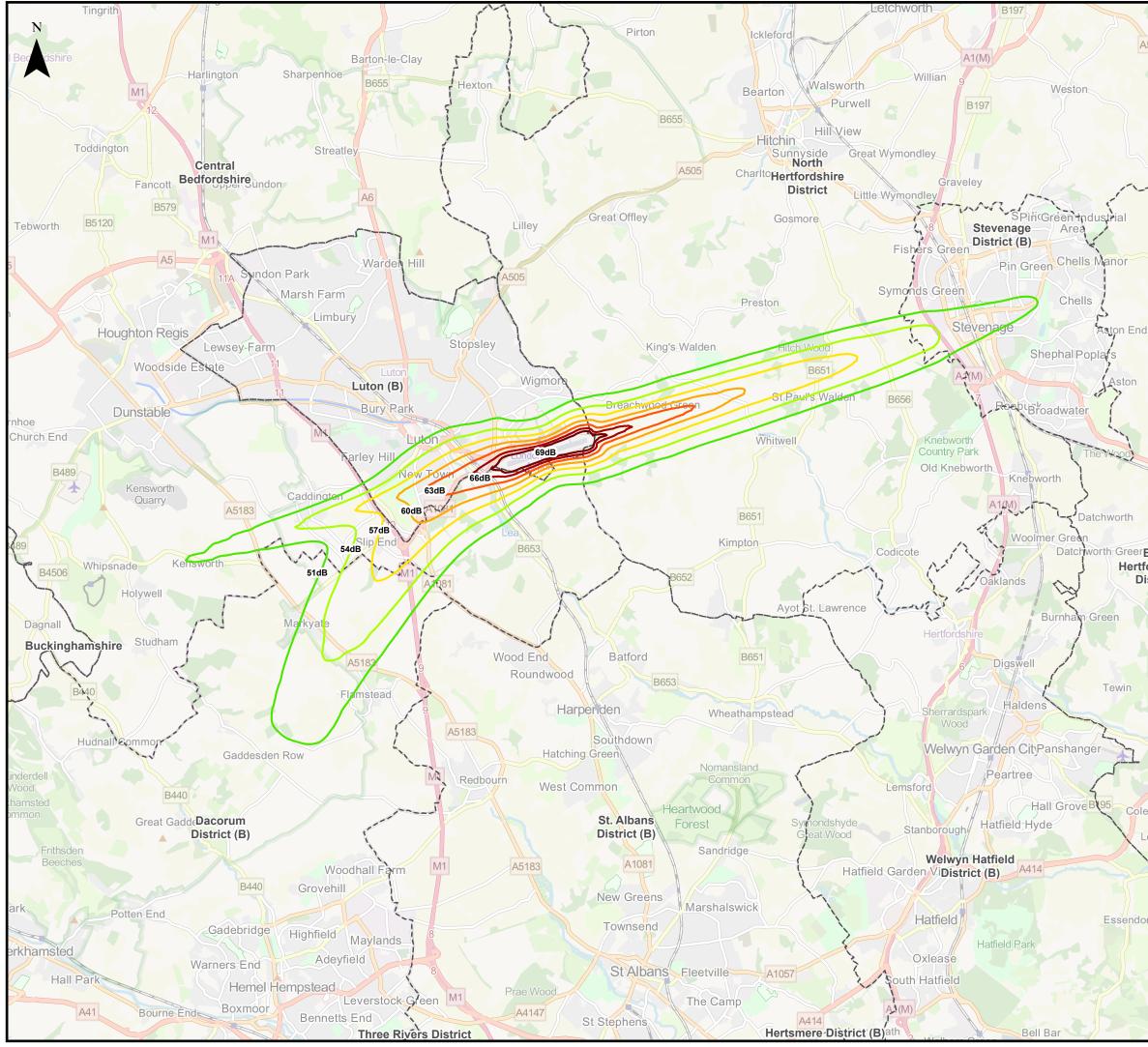
# London Luton Airport Expansion Development Consent Order 202x

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

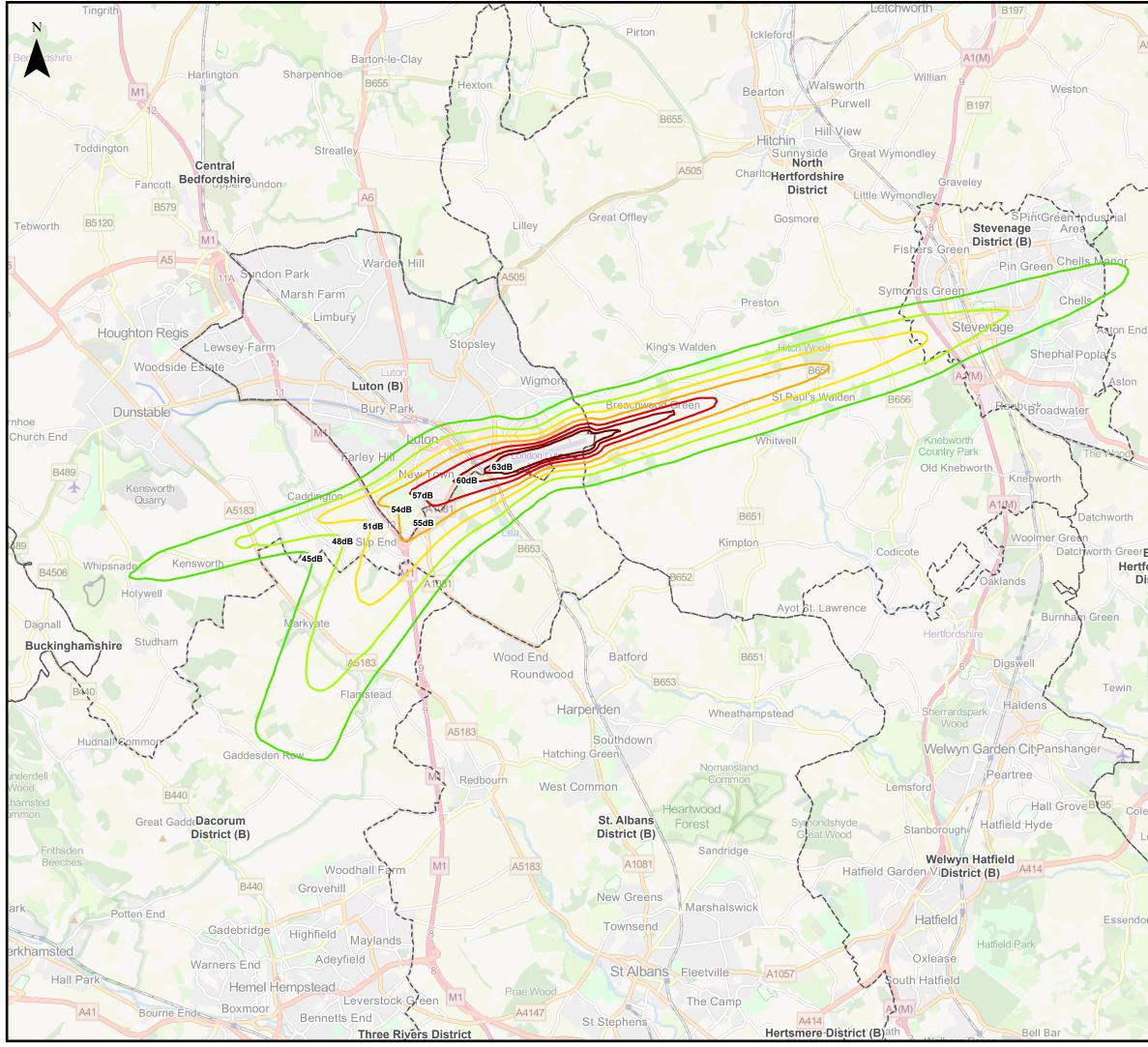
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Luton Rising

Version	Date	Status of Version
Issue 01	February 2023	Application issue

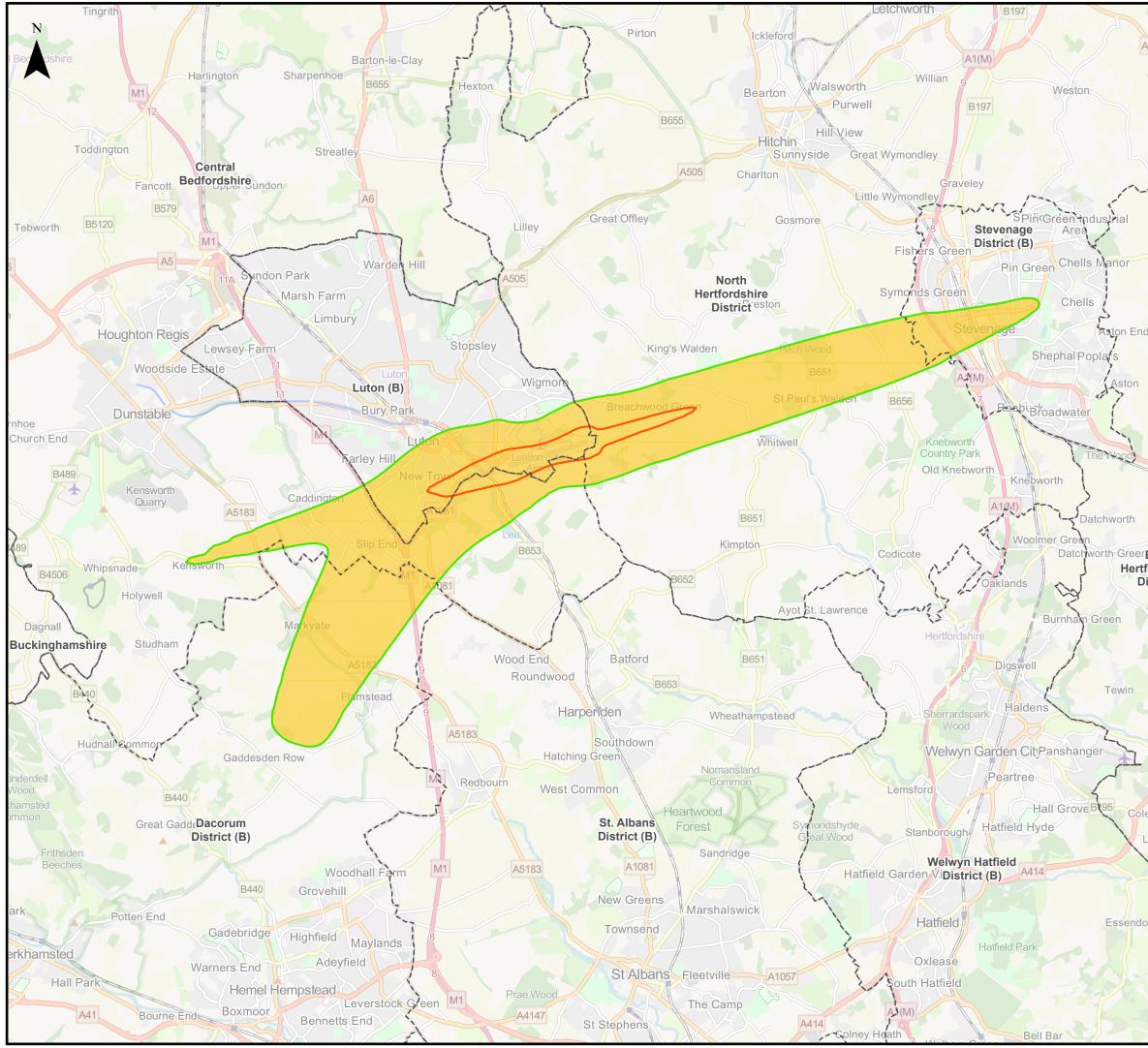




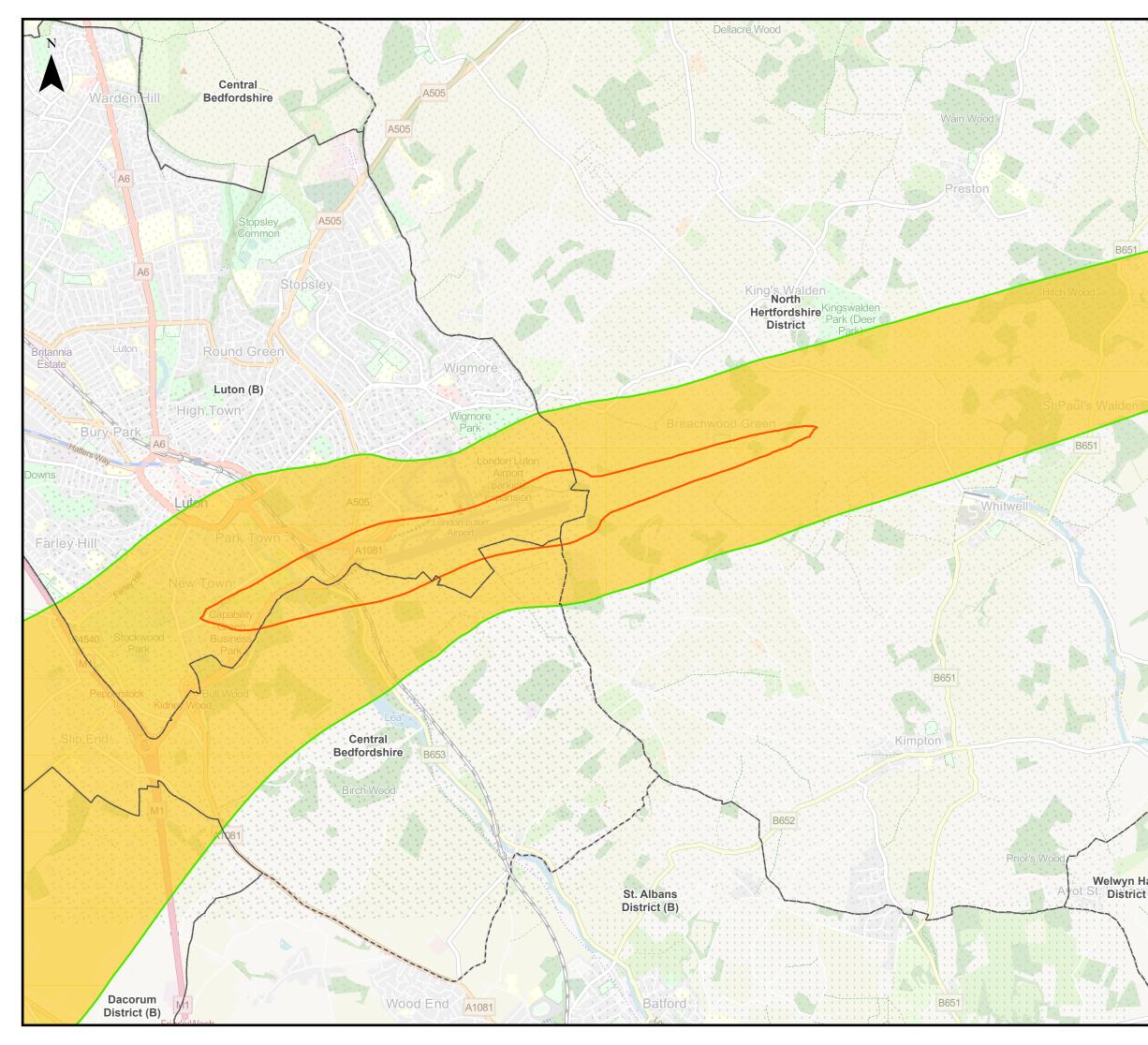
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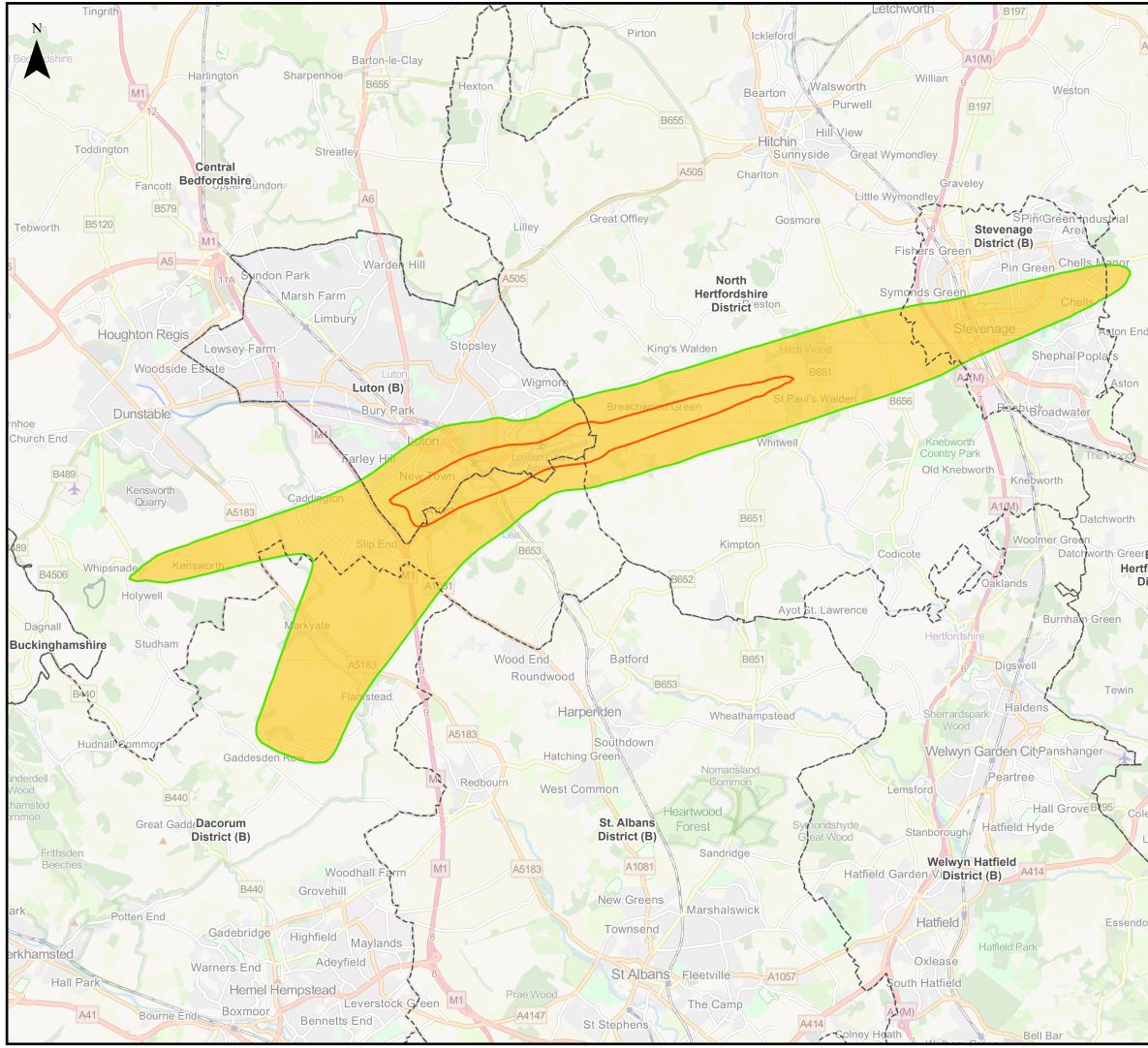
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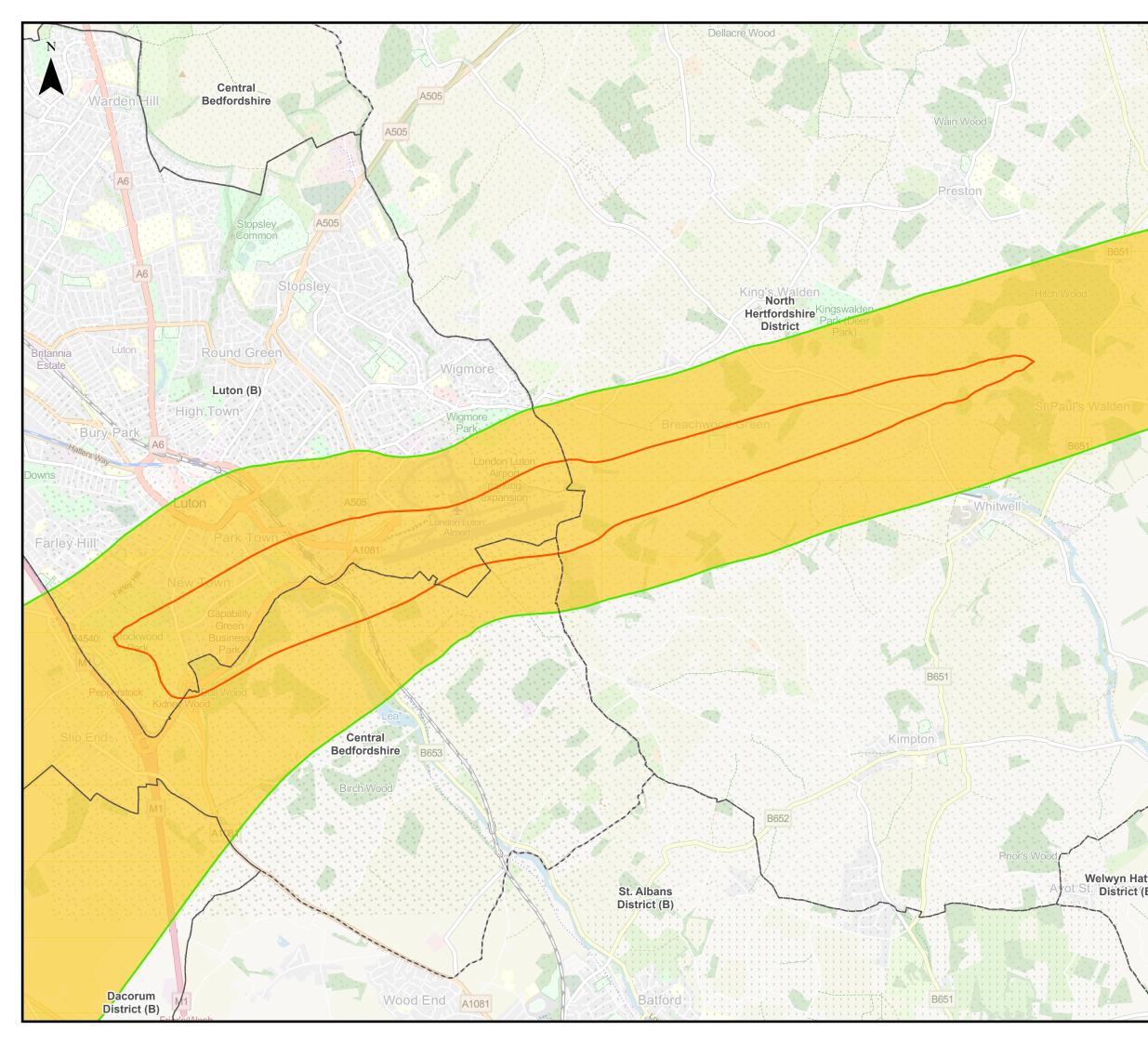
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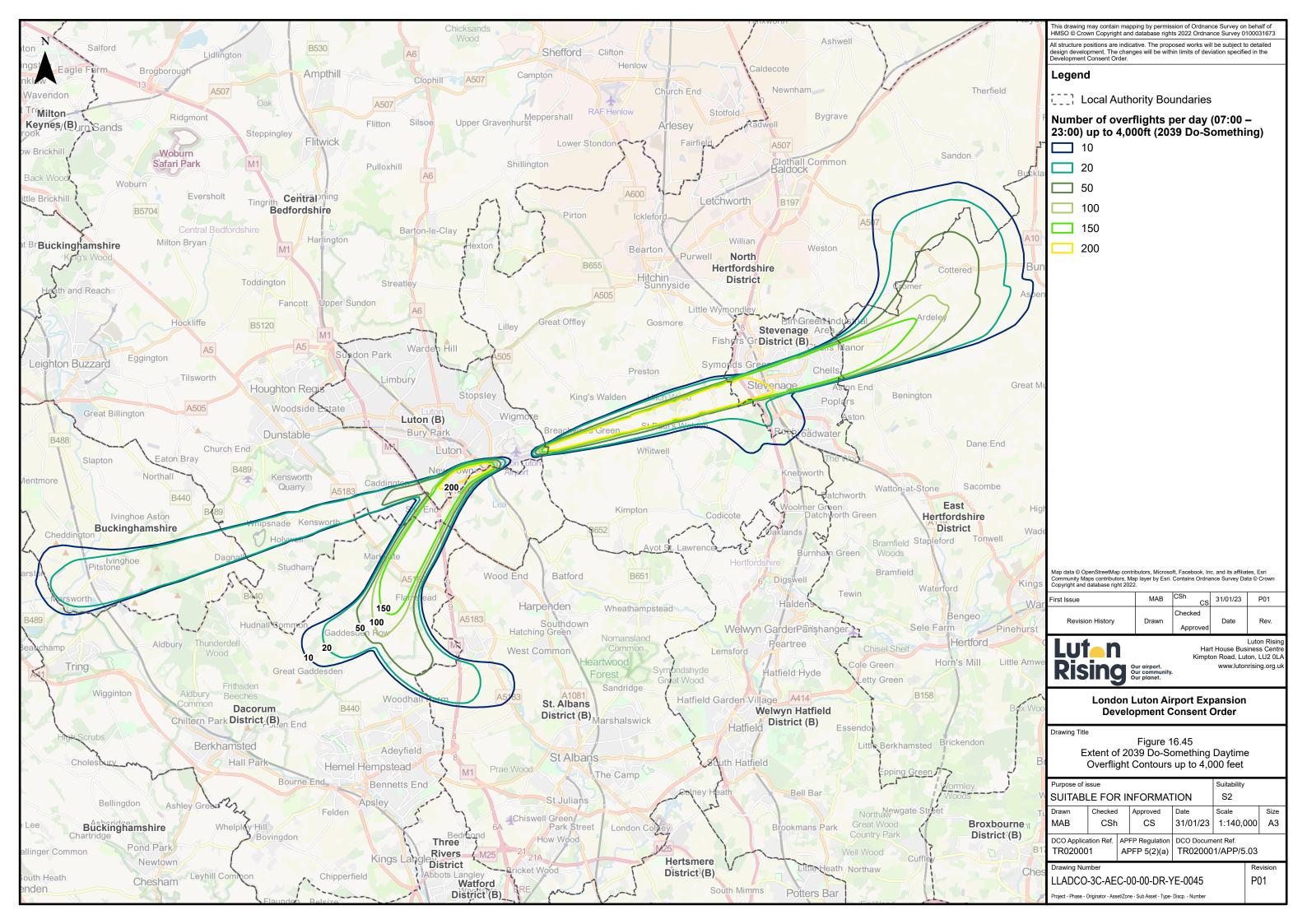
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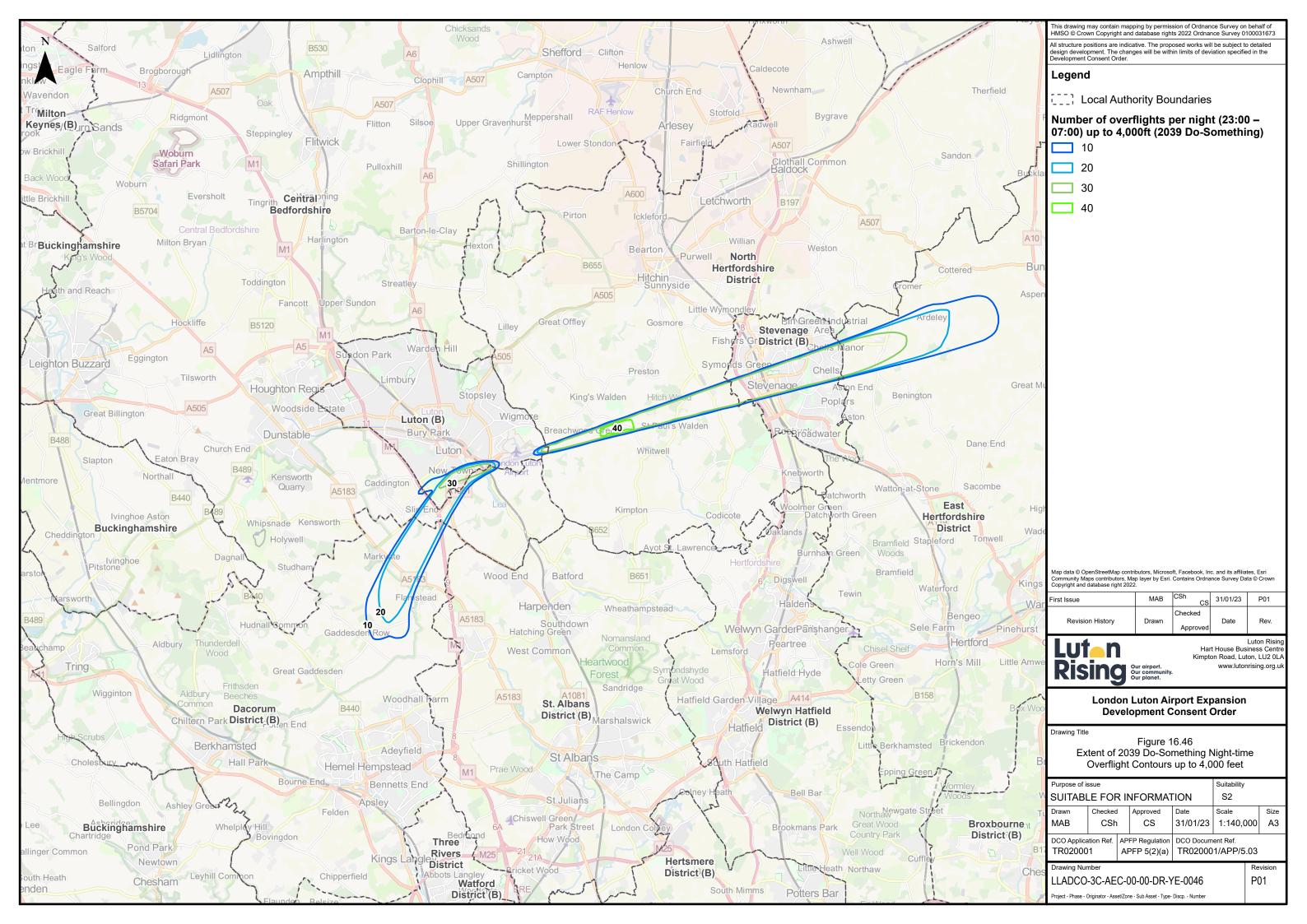
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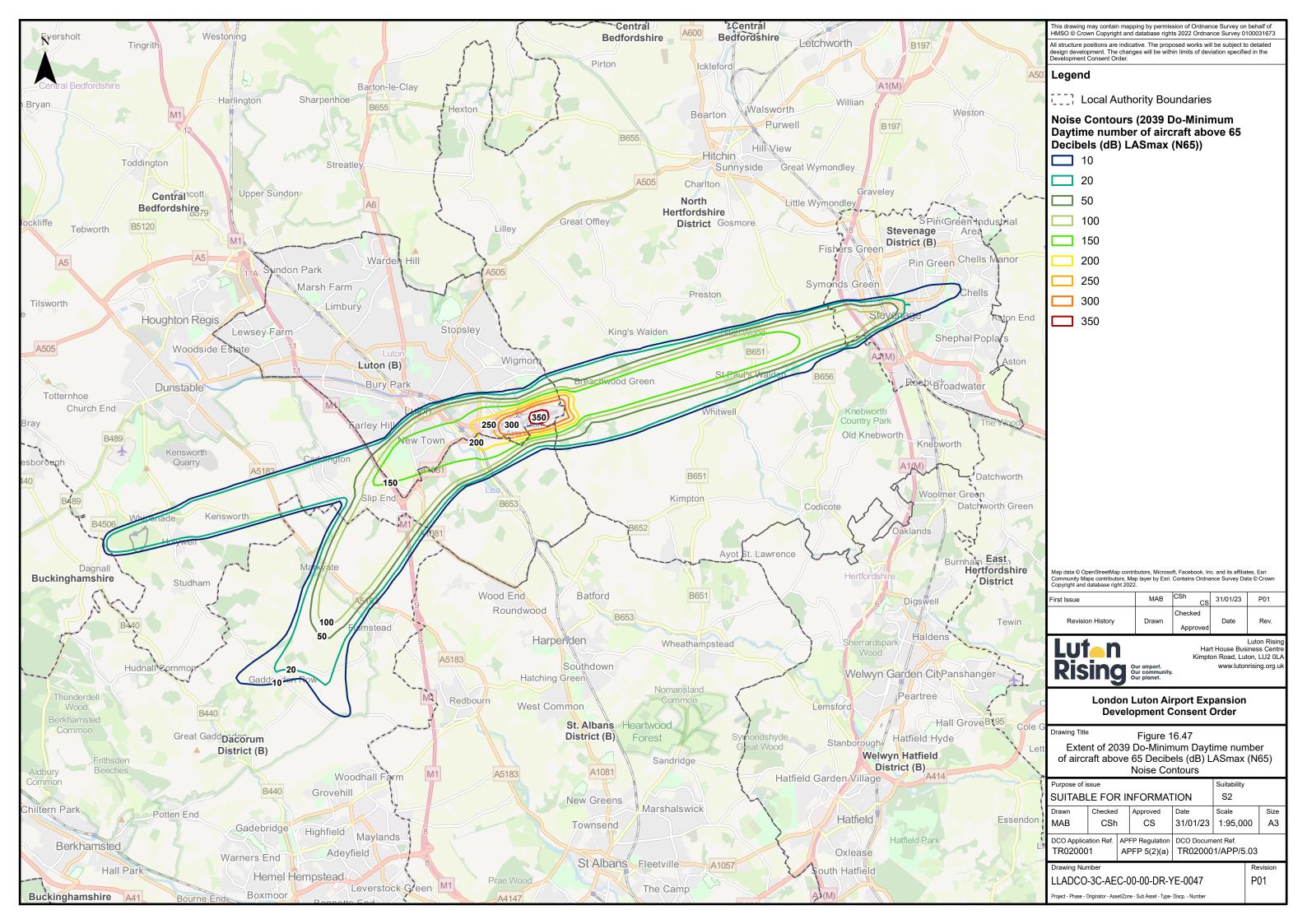
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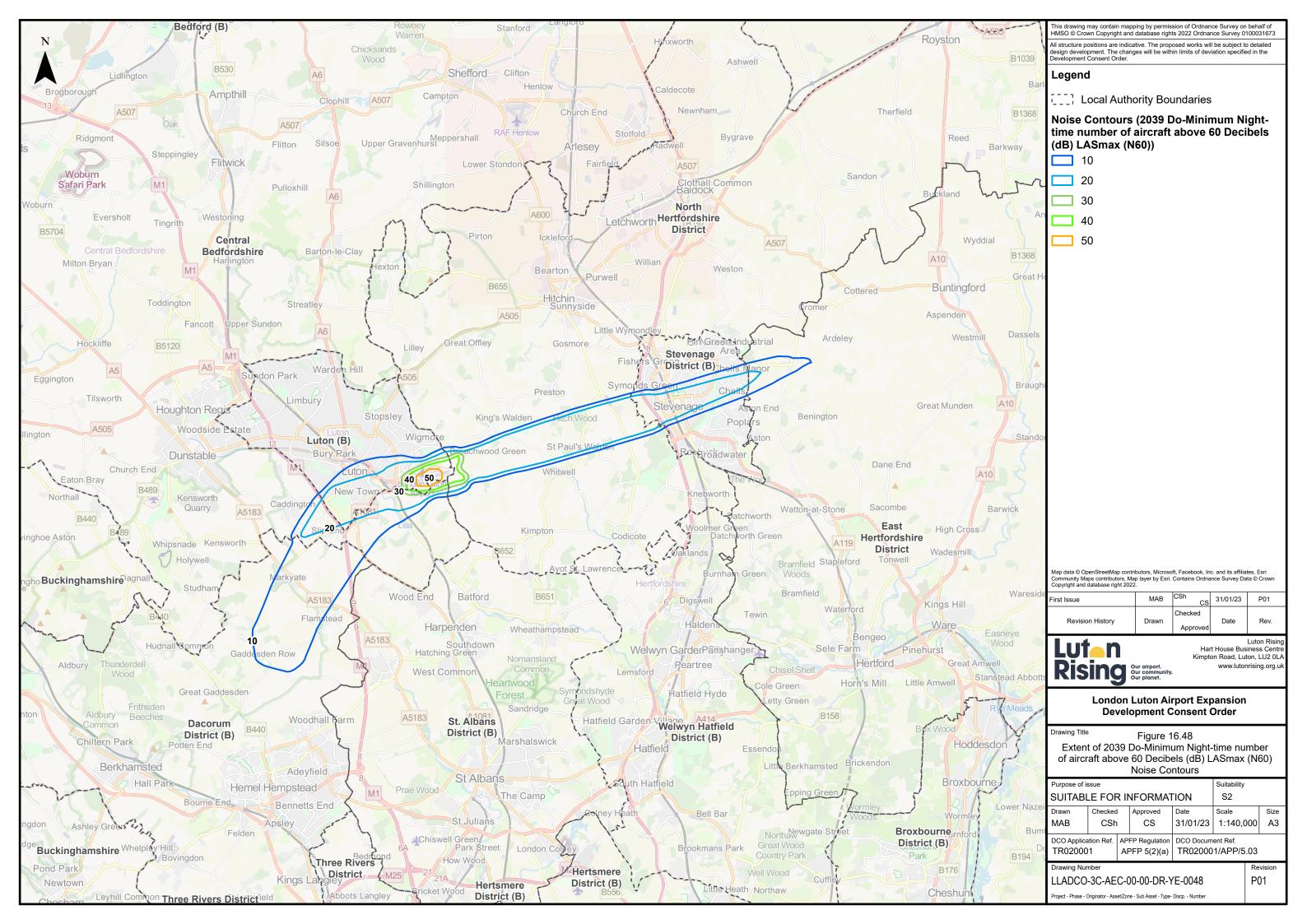
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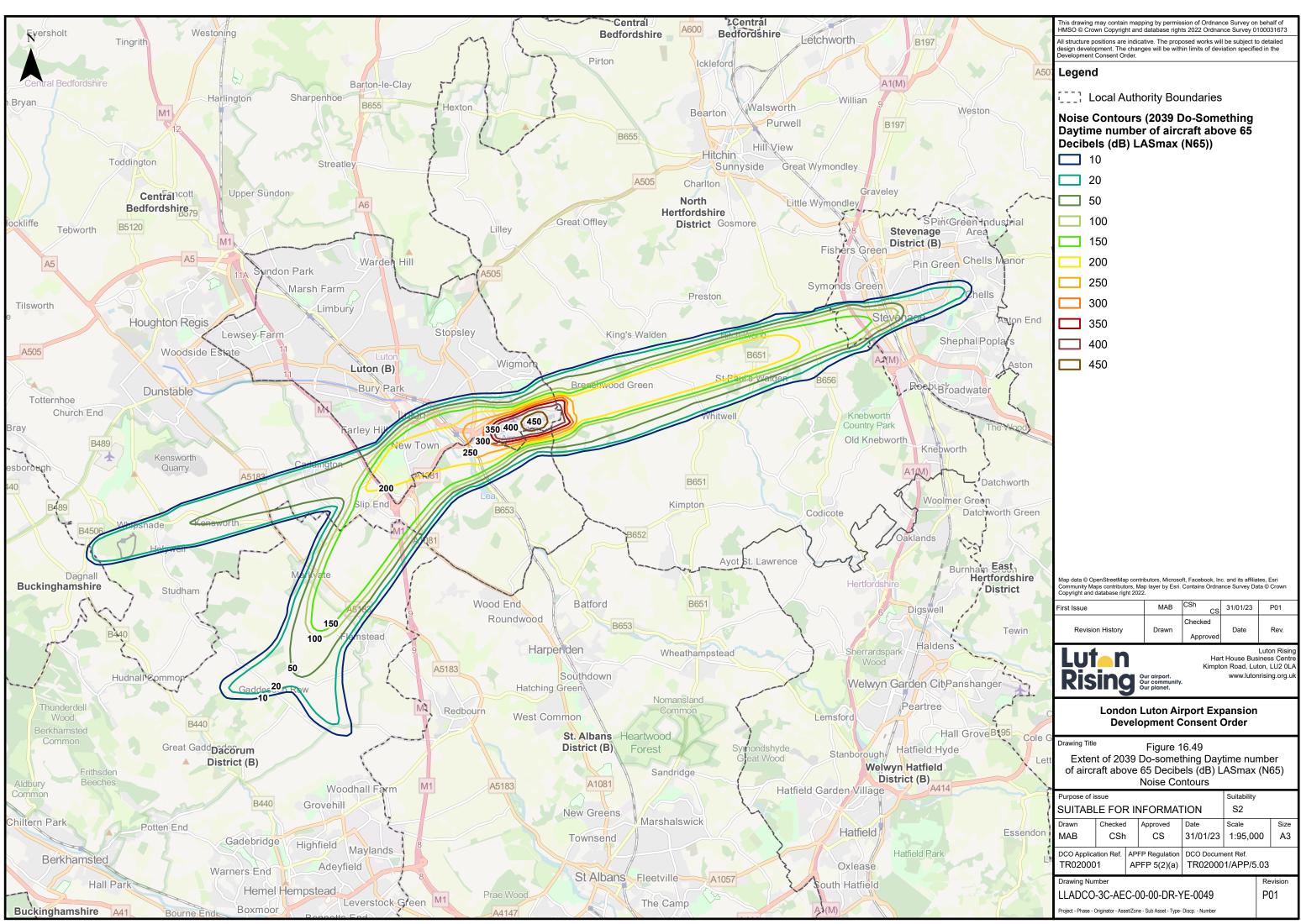
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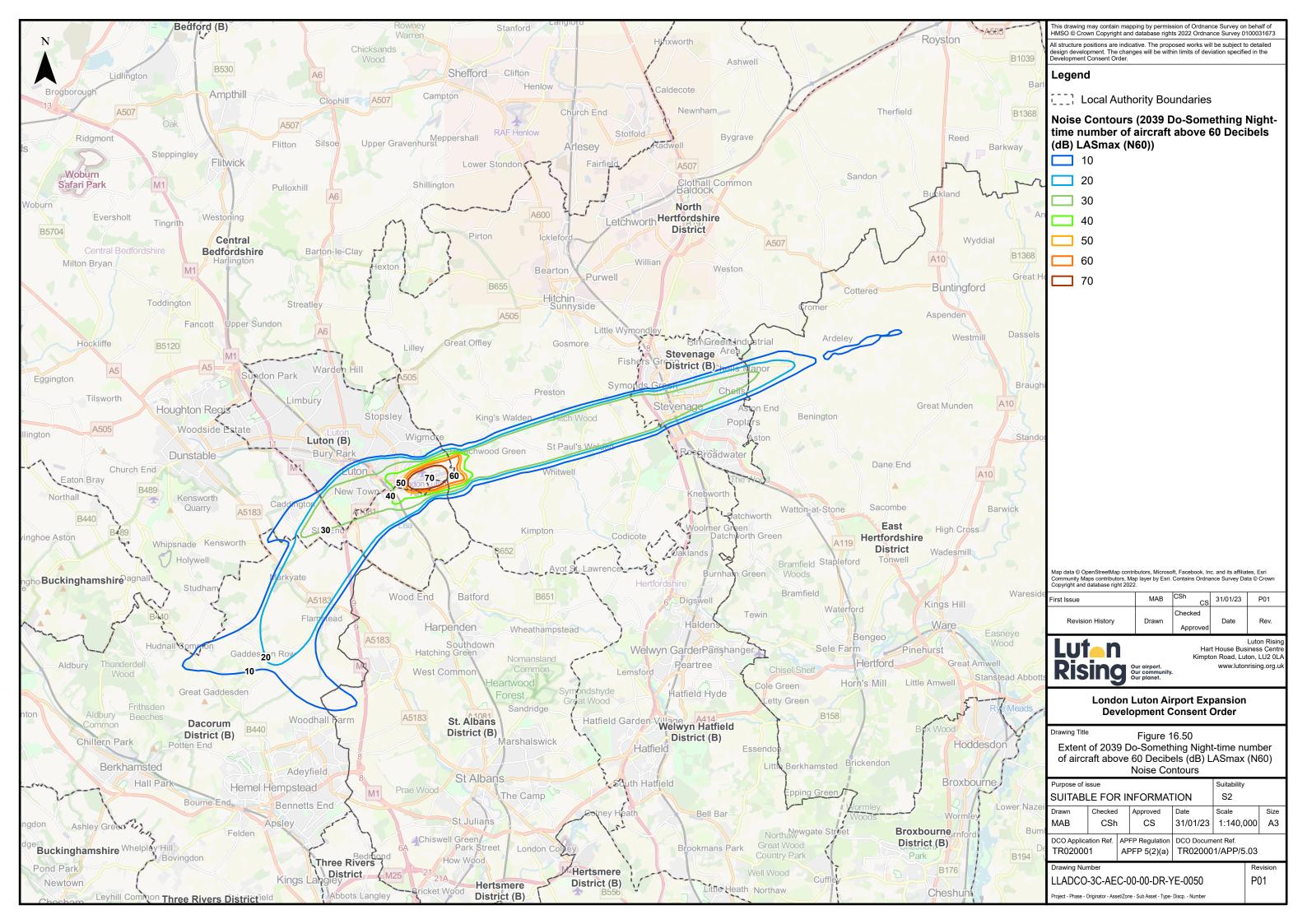


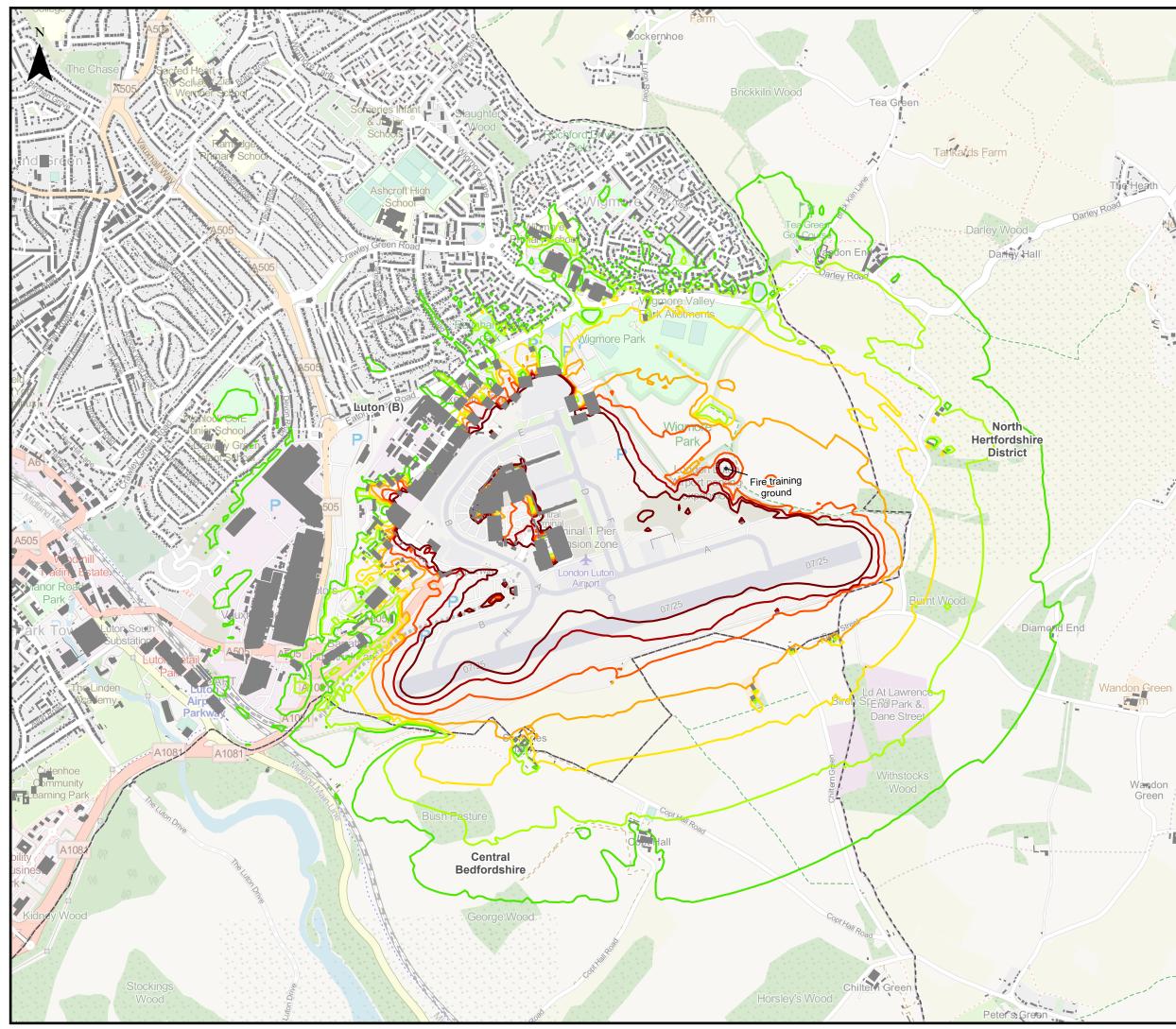












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## Legend



Local Authority Boundaries



# 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

4

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69 dB - Unacceptable Adverse Effect Level (UAEL)

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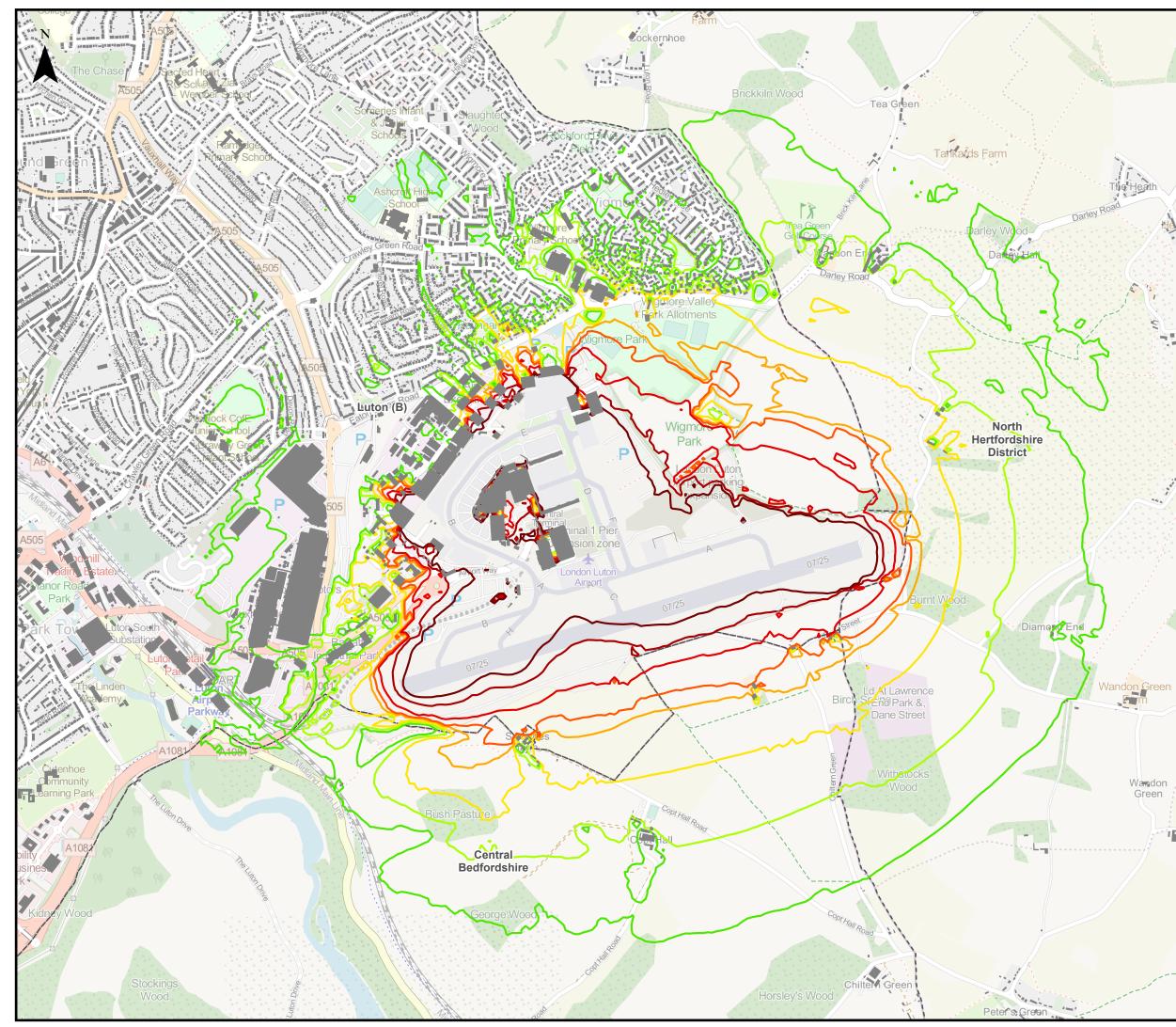
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# London Luton Airport Expansion Development Consent Order

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## Legend



Local Authority Boundaries



# 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

4

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- 60 dB
- 63 dB Unnacceptable Adverse Effect Level (UAEL)

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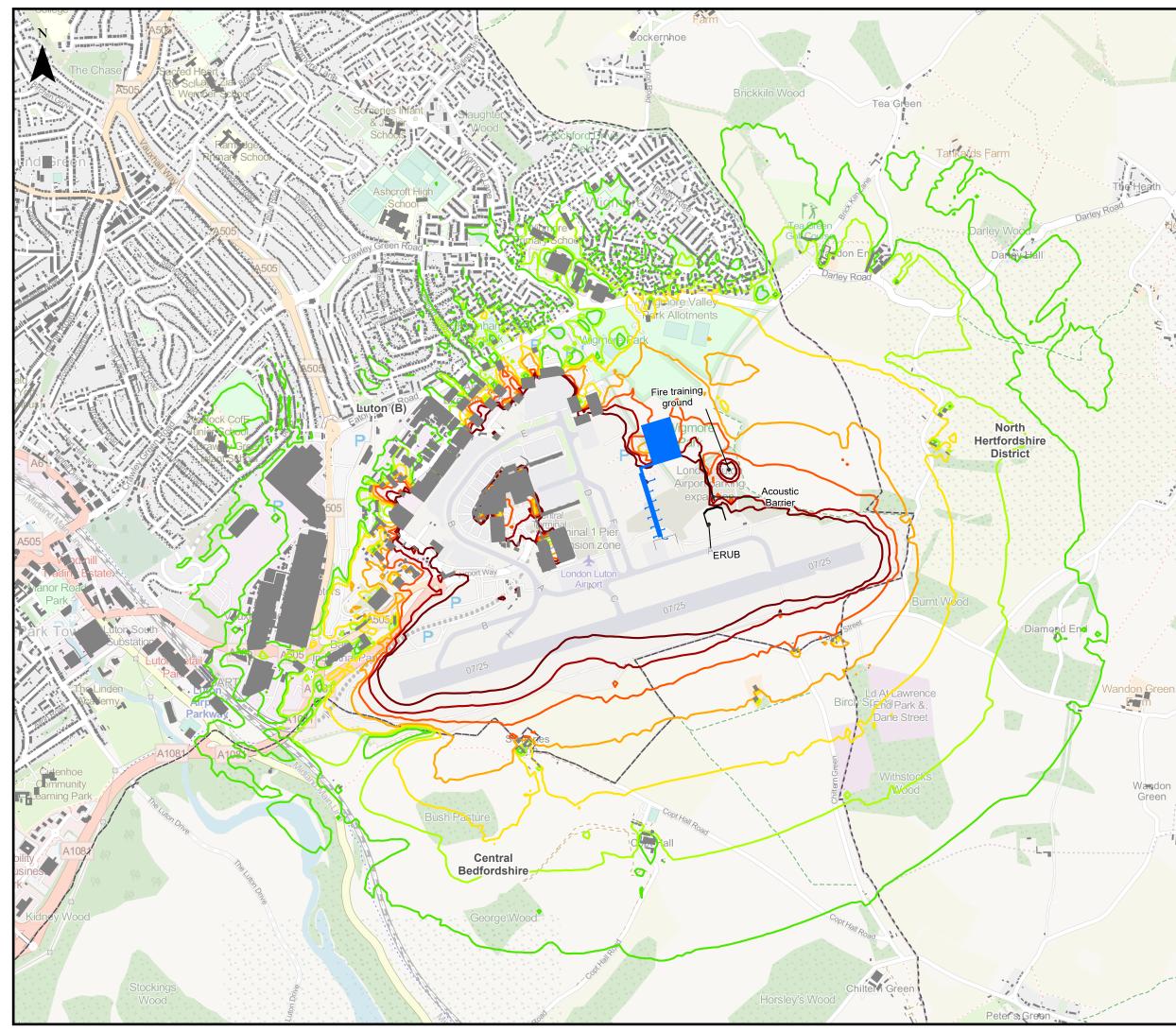
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# London Luton Airport Expansion Development Consent Order

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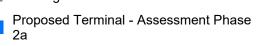
#### Legend



## Local Authority Boundaries



Building



# 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

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- 63 dB Significant Observed Adverse Effect Level (SOAEL)
- 66 dB

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69 dB - Unacceptable Adverse Effect Level (UAEL)

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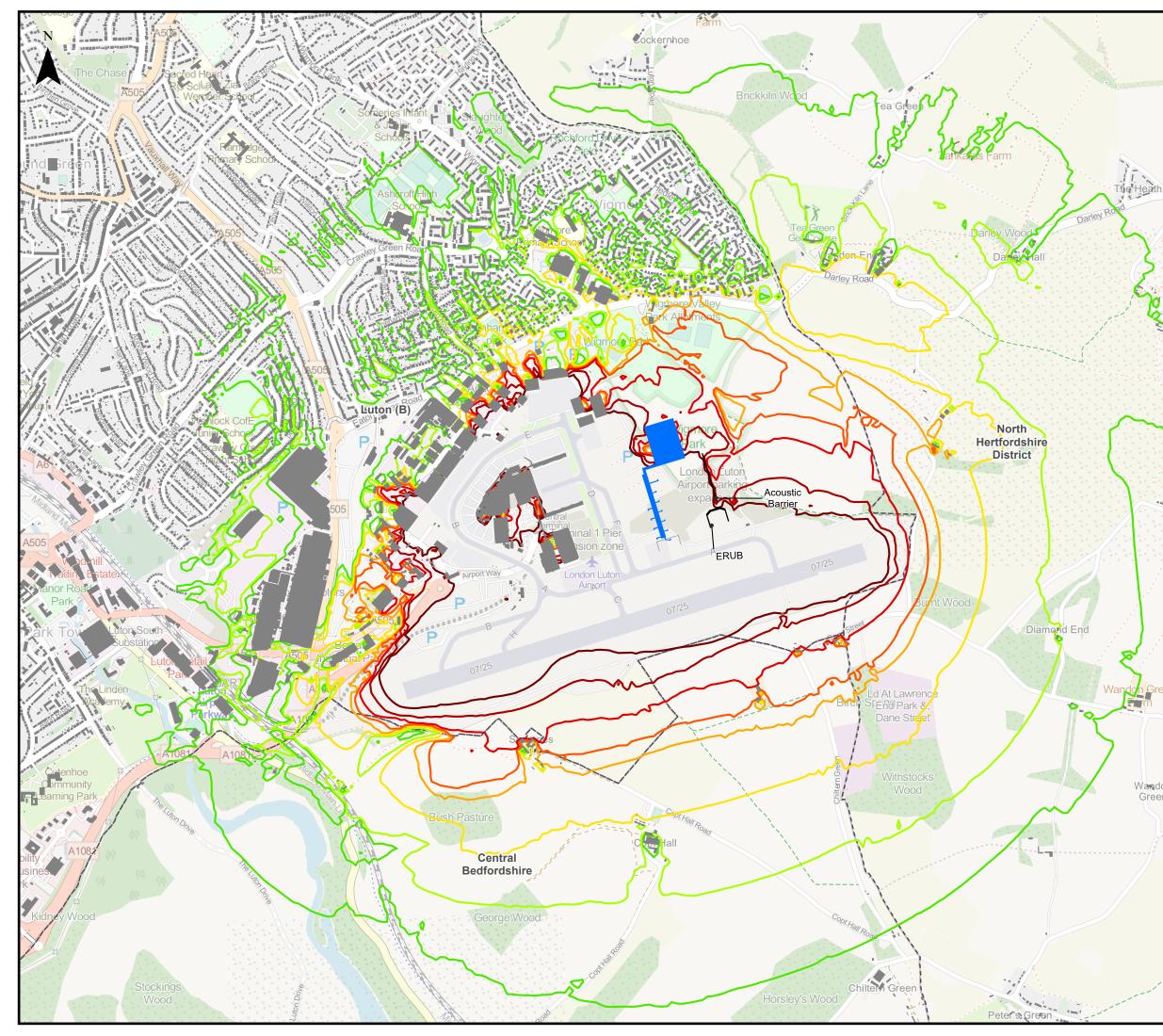
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#### Legend



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 Unnacceptable Adverse Effect Level (UAEL)

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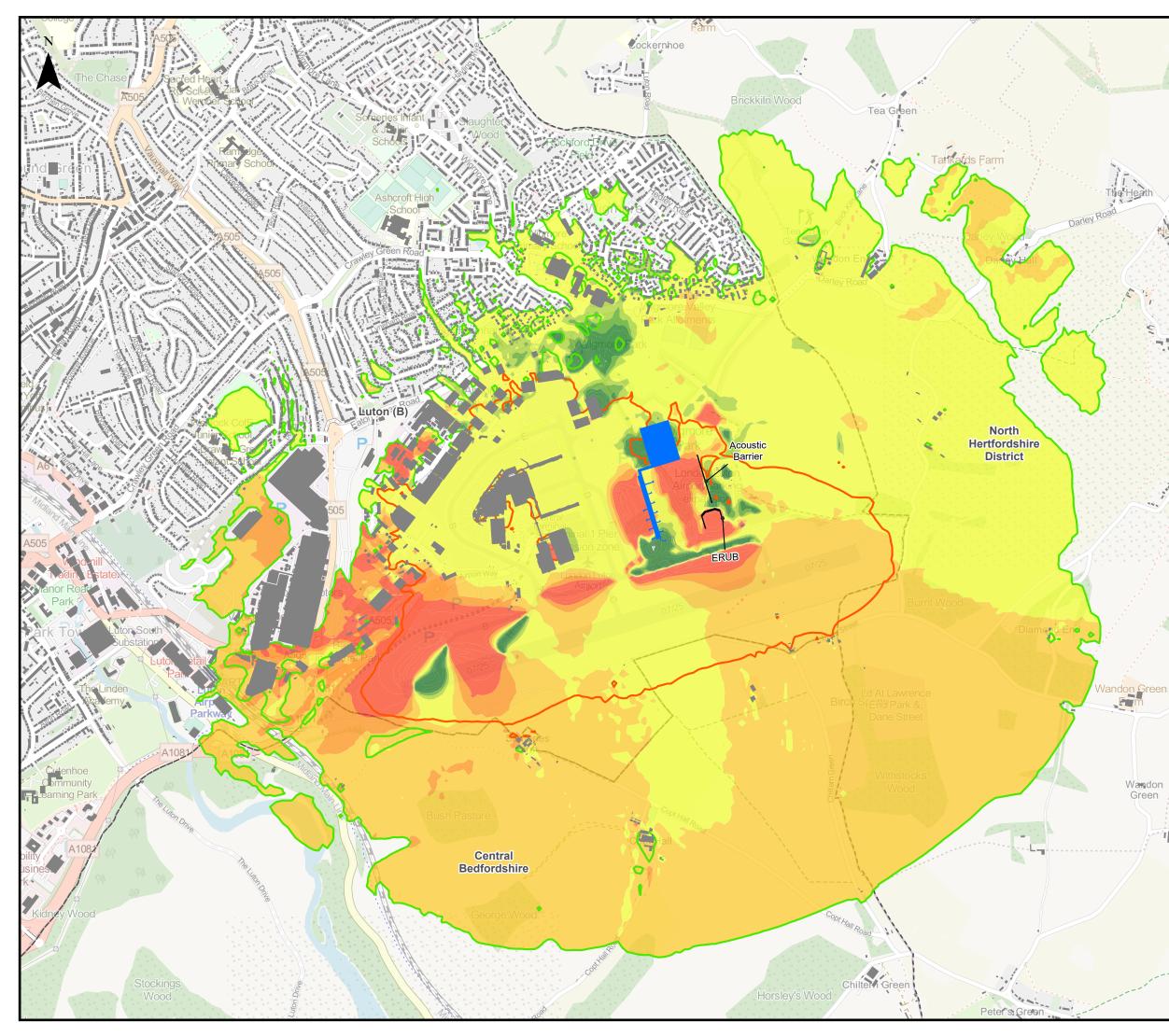
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London Luton Airport Expansion
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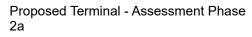




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Local Authority Boundaries

Building



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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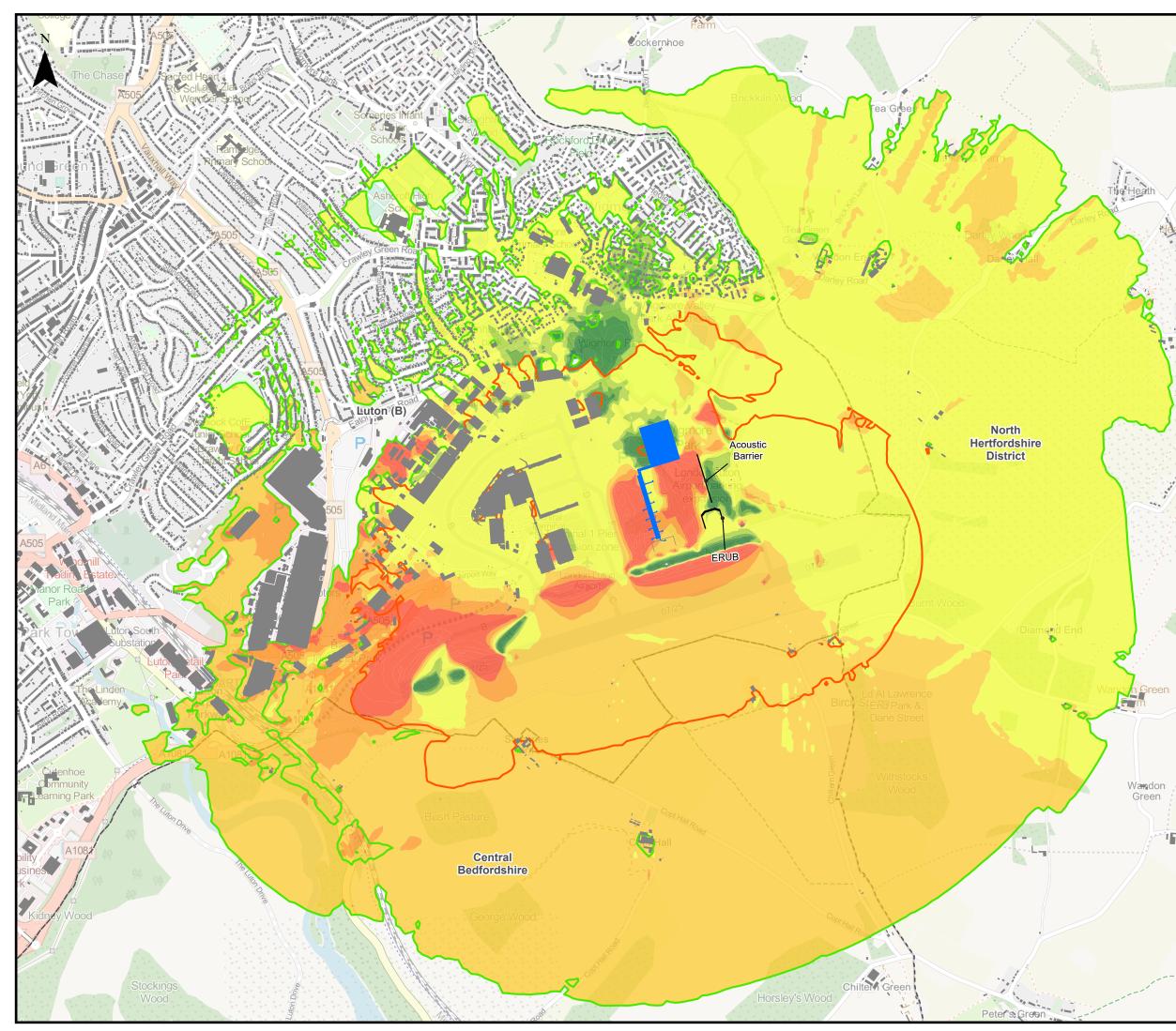
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#### London Luton Airport Expansion **Development Consent Order**

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	TR02000	11	01/APP/5.03							
	Drawing Nur	nber			Re	vision				
	LLADCO-3C-AEC-00-00-DR-YE-0055 P01									

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



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#### Legend





He

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Local Authority Boundaries



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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First Issue	LP	CSn CS	31/01/23	P01
Revision History	Drawn	Checked Approved	Date	Rev.
Lut_n			rt House Bus	Luton Rising iness Centre on, LU2 0LA

Wanndon Green

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TR020001

Drawing Number

Rising Our airport. Our community. Our planet. London Luton Airport Expansion **Development Consent Order** 

TR020001/APP/5.03

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P01

www.lutonrising.org.u

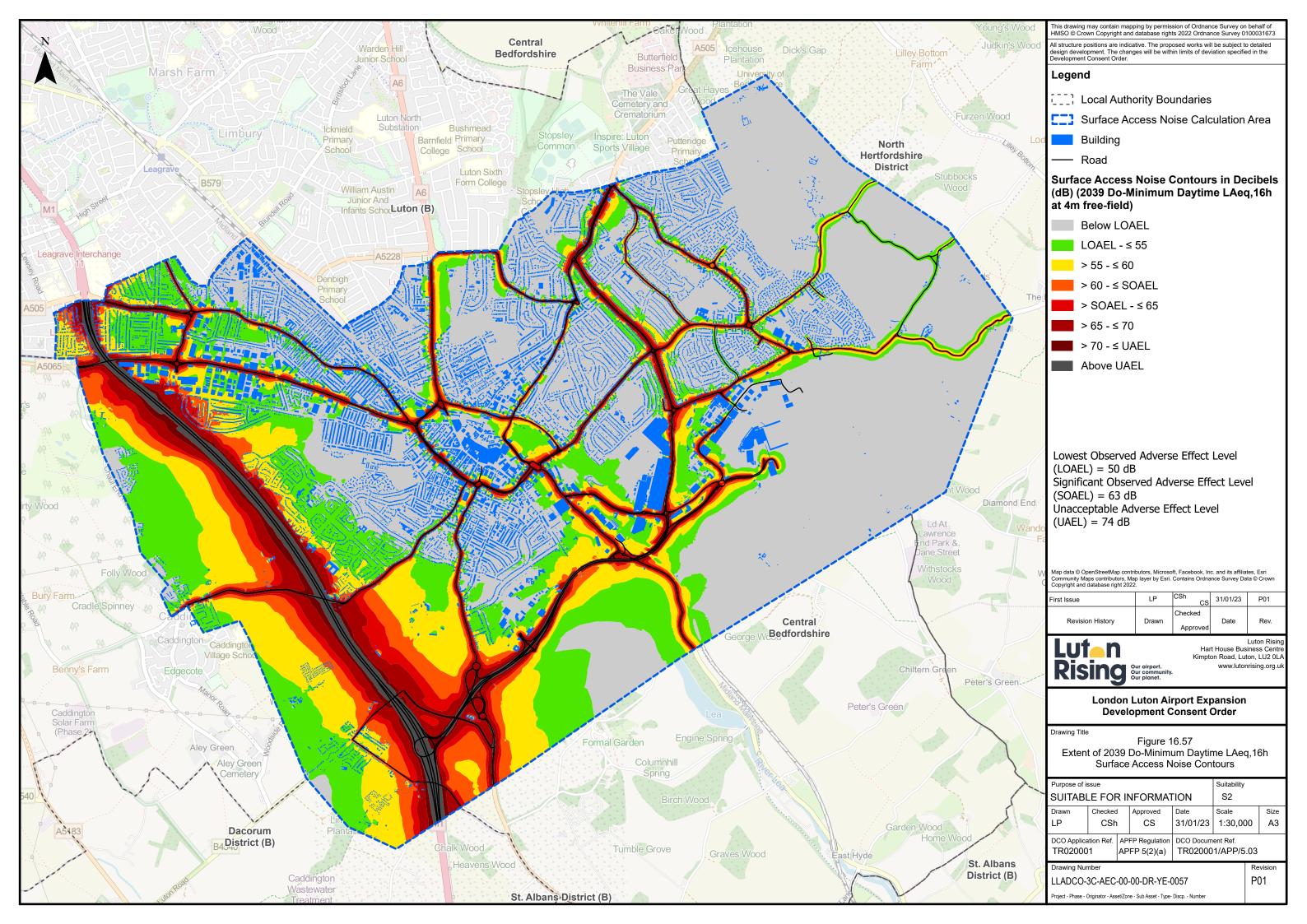
Drawing Title									
Figure 16.56									
Change in 2039 Do-Something - Do-Minimum									
Night-time LAeq,8h Ground Noise Contours									
Purpose of issue Suitability									
Purpose of is	ssue			Suitability					
•		NFORMAT	ION	Suitability S2					
•			TION Date		Size				

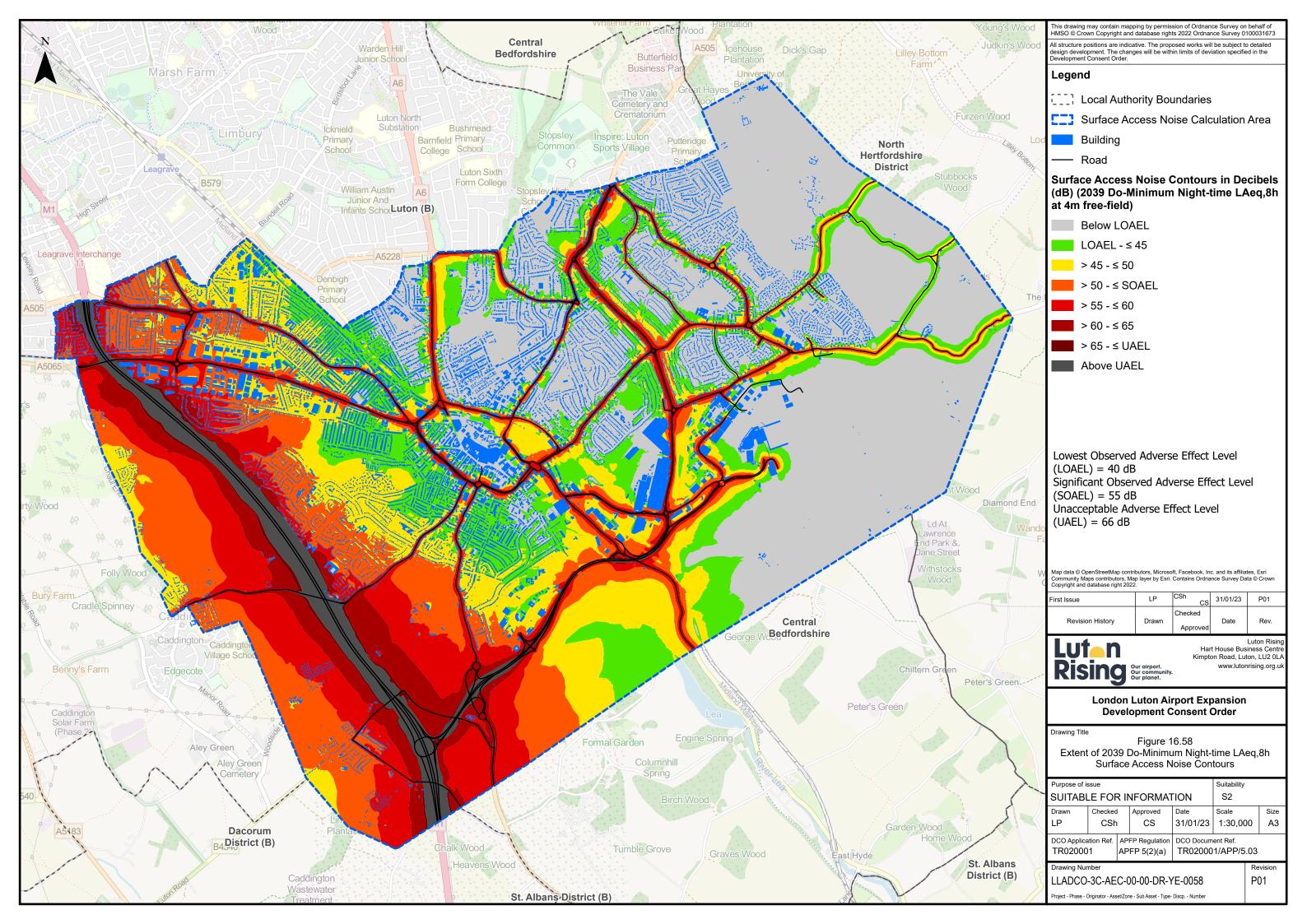
DCO Application Ref. APFP Regulation DCO Document Ref.

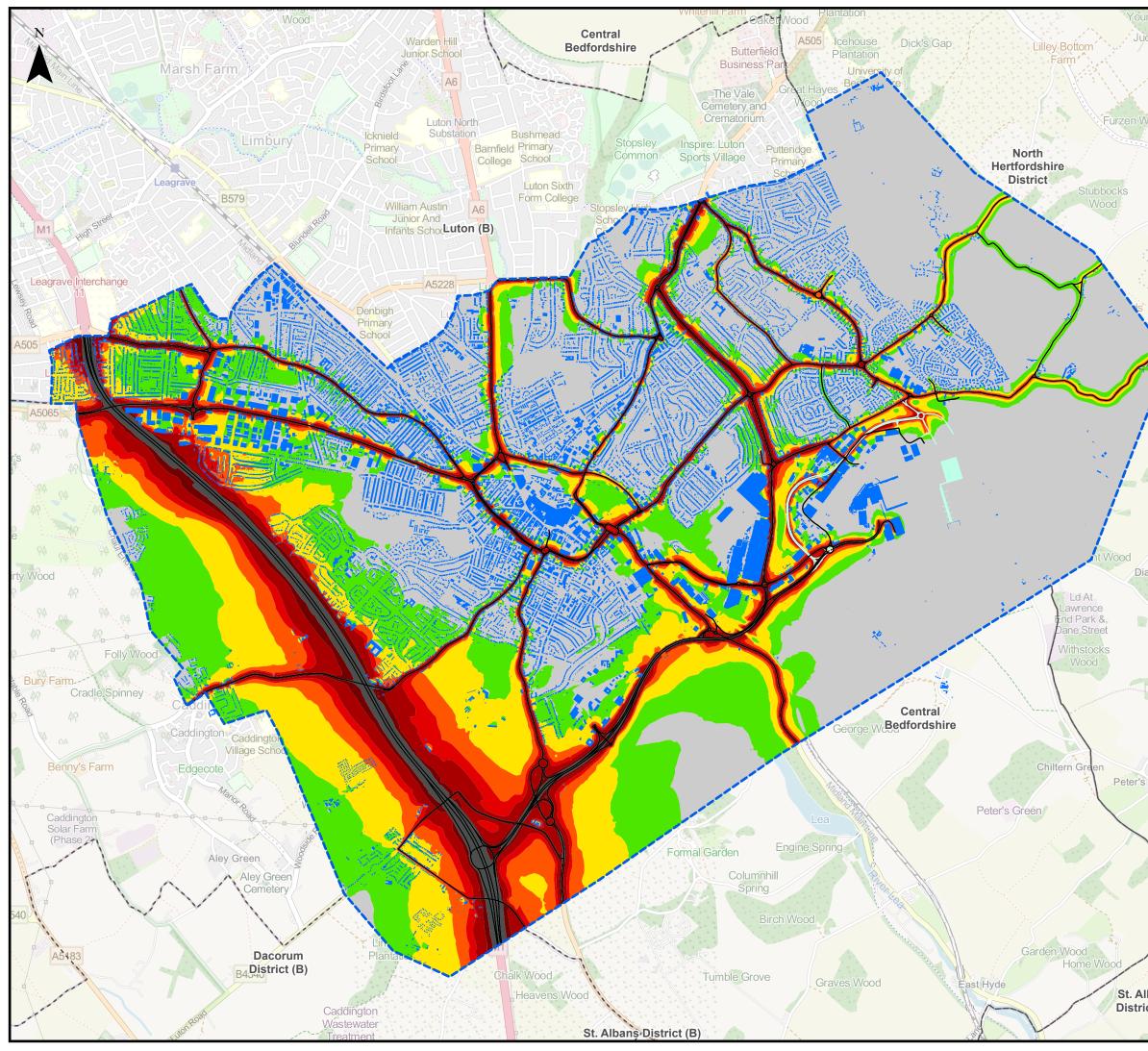
APFP 5(2)(a)

LLADCO-3C-AEC-00-00-DR-YE-0056

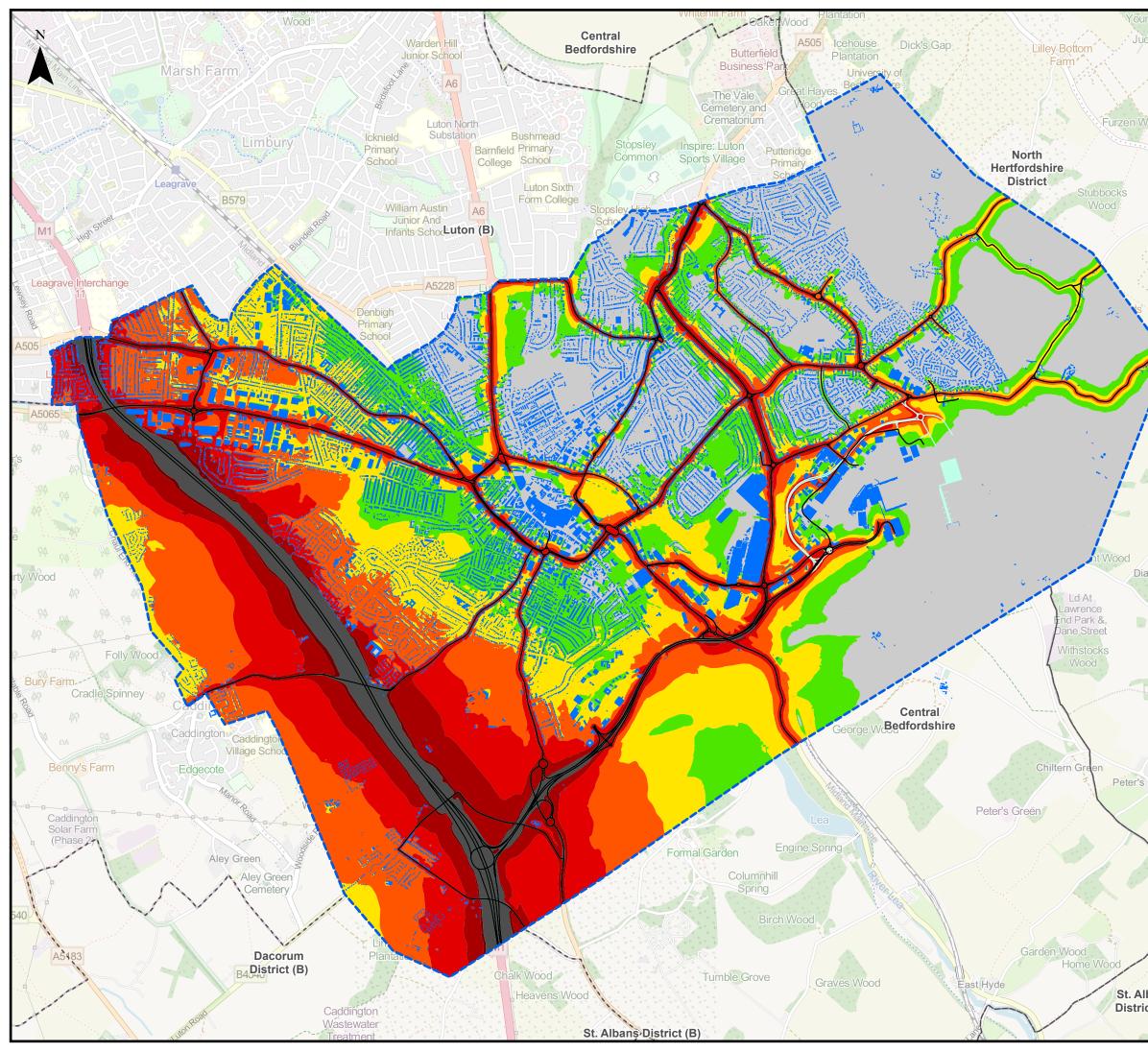
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number







ung's Wood	This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673 All structure positions are indicative. The proposed works will be subject to detailed									
udkin's Wood	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.									
et et en	Legend									
×.	Local Authority Boundaries									
Nood	<b>Surface Access Noise Calculation Area</b>									
Lod		Building	g							
Bottom	—	Road								
	Proposed Termianal - Assessment Phase 2a									
	Airport Access Road									
	Surface Access Noise Contours in Decibels (dB) (2039 Do-Something Daytime LAeq,16h at 4m free-field)									
		Below I		EL						
Thể		LOAEL	- ≤	55						
		> 55 - ≤	≤ 60							
		> 60 - ≤	s SC	DAEL						
1 1		> SOAE	EL -	≤ 65						
Constant		> 65 - ≤	≤ 70							
	> 70 - ≤ UAEL									
	Above UAEL									
iamond End Wando	Lowest Observed Adverse Effect Level (LOAEL) = 50 dB Significant Observed Adverse Effect Level (SOAEL) = 63 dB Unacceptable Adverse Effect Level (UAEL) = 74 dB									
w w	Community		ors, Ma	ibutors, Microso ap layer by Esri. 2.						
	First Issue	•		LP	CSh CS	31/01/23	F	P01		
	Rev	ision History		Drawn	Checked Approved	Date		Rev.		
s Green	Luton Rising Rising Our airport. Our pinnet. Our pinnet.									
	London Luton Airport Expansion Development Consent Order									
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	Drawing Title Figure 16.59									
	Extent of 2039 Do-Something Daytime LAeq,16h Surface Access Noise Contours									
$\geq$	Purpose of issue Suitability SUITABLE FOR INFORMATION S2									
5	Drawn Checked Approved Date Sc									
	LP         CSh         CS         31/01/23         1:30,000         A3           DCO Application Ref.         APFP Regulation         DCO Document Ref.									
lhara	TR020001 APFP 5(2)(a) TR020001/APP/5.03									
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ng's Wood	This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673									
dkin's Wood	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.									
et l'anna anna anna anna anna anna anna an	Legend									
	Local Authority Boundaries									
lood	<b>Surface Access Noise Calculation Area</b>									
Lod	Building									
Lod	Proposed Termianal - 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									
The	L	OAEL	- ≤	≦ 45						
	>	45 - ≤	5	0						
all should be	>	50 - ≤	S	OAEL						
1 2	>	55 - ≤	6	0						
	> 60 - ≤ 65									
	> 65 - ≤ UAEL									
	Above UAEL									
amond End Wando	Lowest Observed Adverse Effect Level (LOAEL) = 40 dB Significant Observed Adverse Effect Level (SOAEL) = 55 dB Unacceptable Adverse Effect Level (UAEL) = 66 dB									
W C		ps contribute	ors, I	ntributors, Microso Map layer by Esri. 22.						
	First Issue	31/01/23	F	P01						
	Revisio	n History		Drawn	Checked Approved	Date	'	Rev.		
Green	Luton Rising Bur airport. Our airport. Our community. Our planet.									
	London Luton Airport Expansion Development Consent Order									
$\mathbf{X}$	Drawing Title Figure 16.60 Extent of 2039 Do-Something Night-time LAeq,8h Surface Access Noise Contours									
T	Purpose of issue Suitability SUITABLE FOR INFORMATION S2									
AN	DrawnCheckedApprovedDateScaleSizeLPCShCS31/01/231:30,000A3									
	DCO Application Ref.         APFP Regulation         DCO Document Ref.           TR020001         APFP 5(2)(a)         TR020001/APP/5.03									
bans ct (B)	Drawing Number Revision LLADCO-3C-AEC-00-00-DR-YE-0060 P01 Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp Number									
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