

February 2023

London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents 5.03 Chapter 7 Air Quality Figures 7.3b - 7.26

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

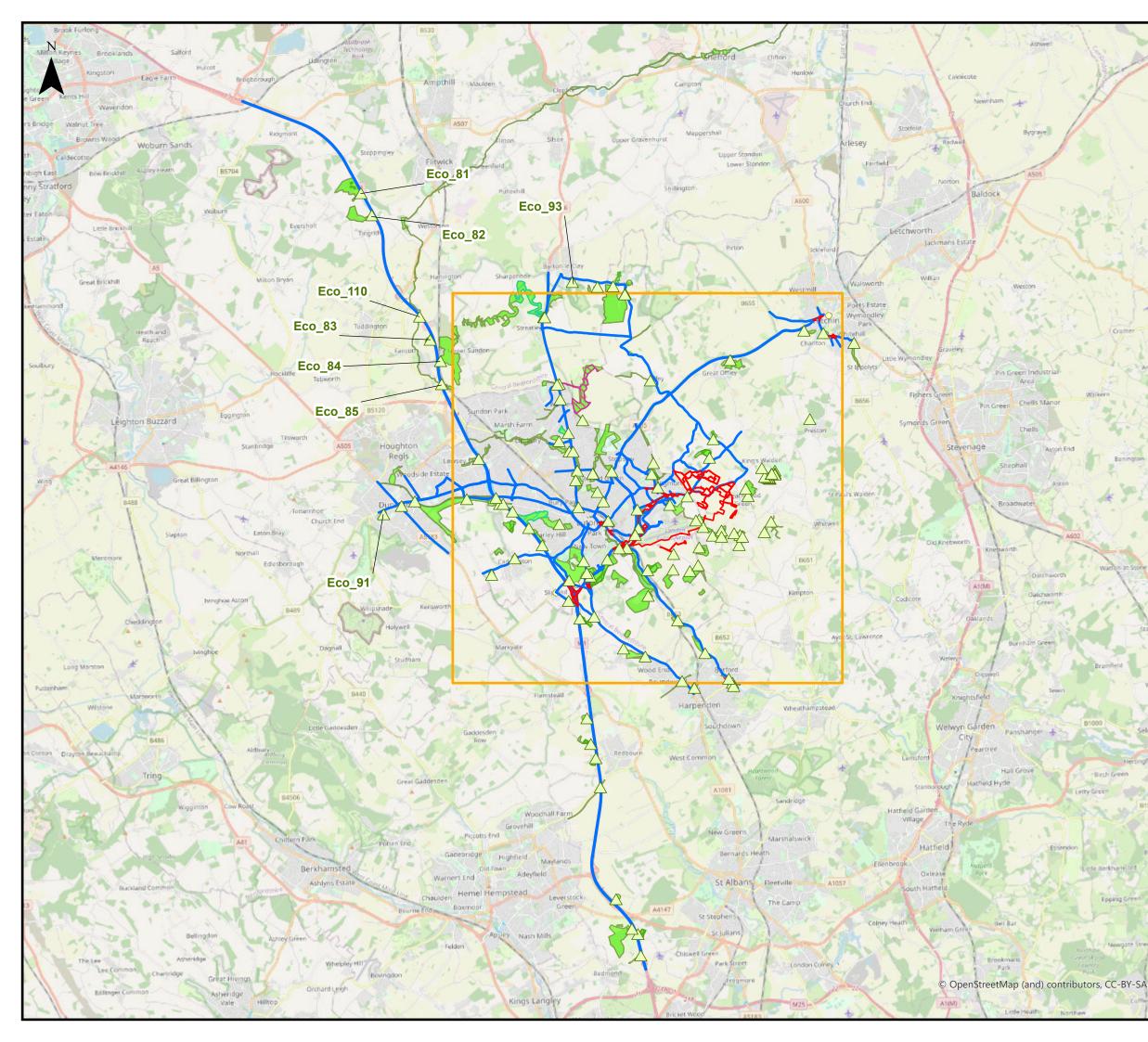
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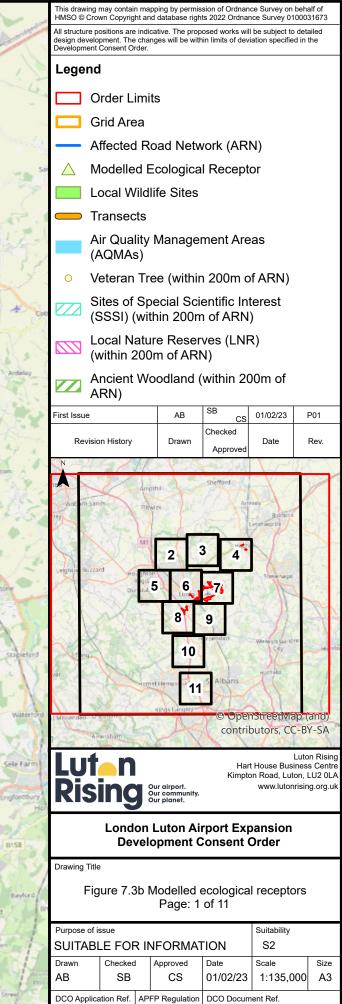
5.03 ENVIRONMENTAL STATEMENT CHAPTER 7 AIR QUALITY FIGURES 7.3b – 7.26

Regulation number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR020001
Document Reference:	TR020001/APP/5.03
Author:	Luton Rising
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Version	Date	Status of Version
Issue 01	February 2023	Application issue







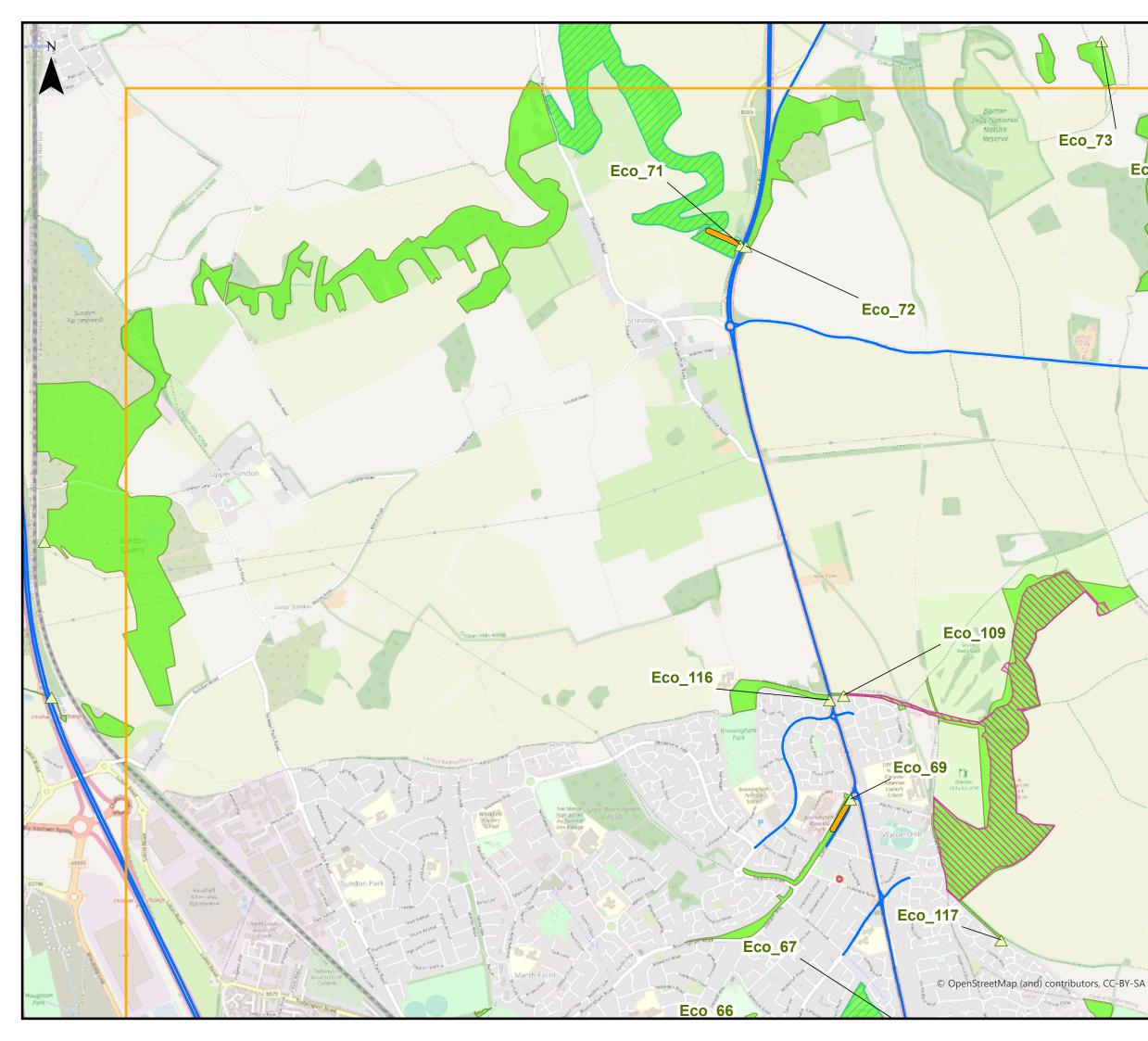
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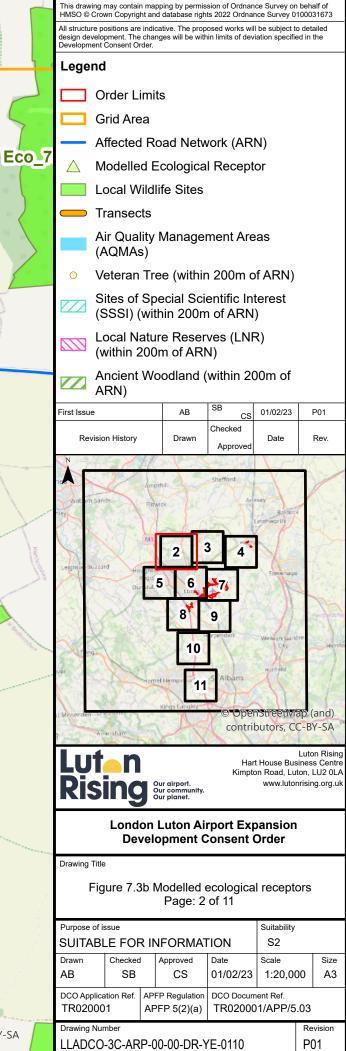
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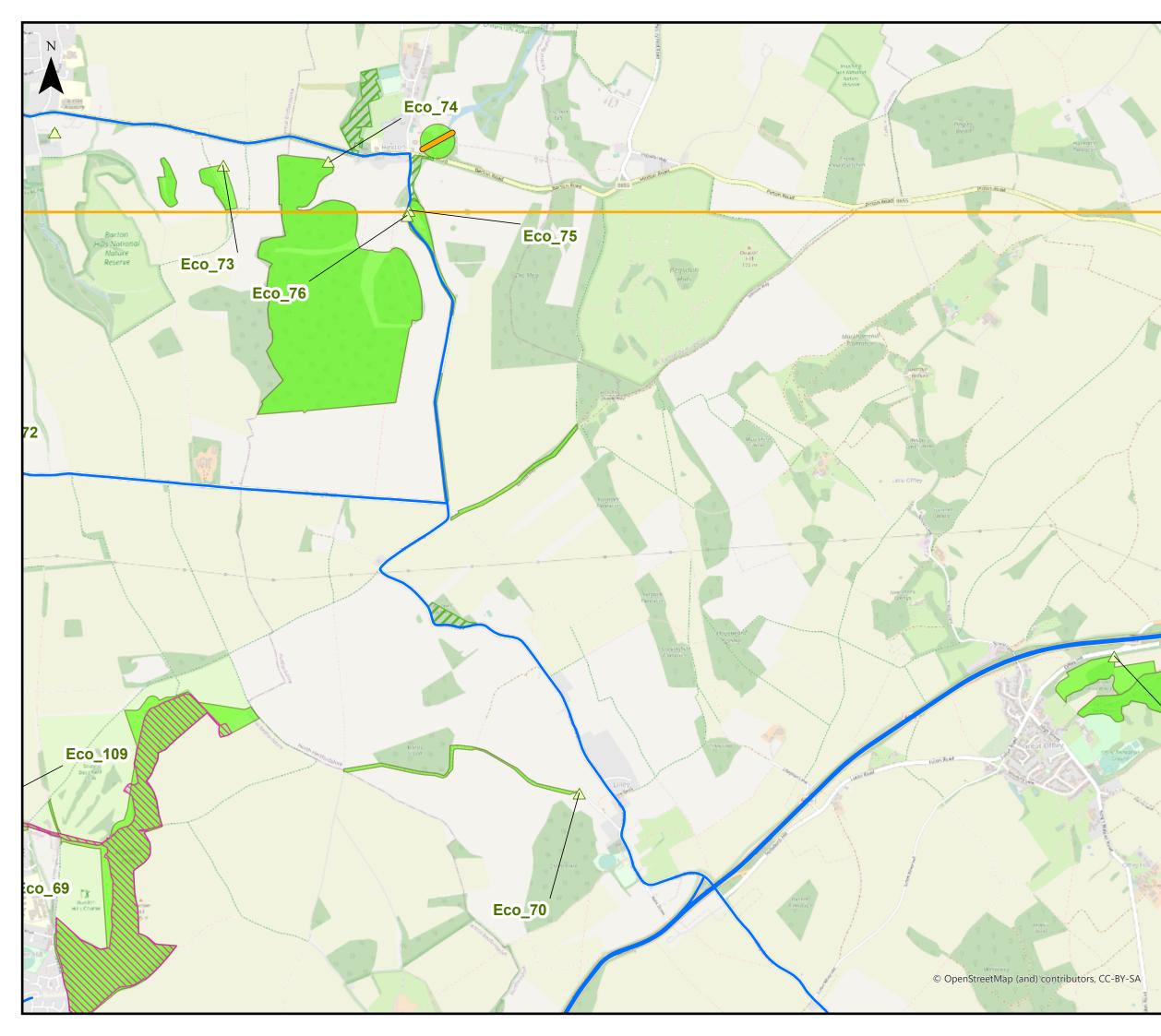
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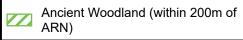


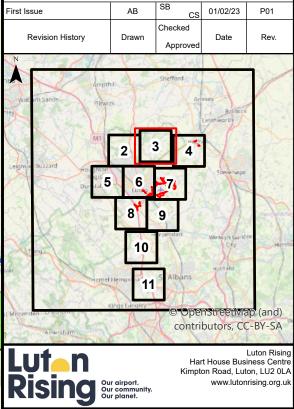
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- Grid Area
 - Affected Road Network (ARN)
- △ Modelled Ecological Receptor
 - Local Wildlife Sites
- Transects
 - Air Quality Management Areas (AQMAs)
- 0 Veteran Tree (within 200m of ARN)
- Sites of Special Scientific Interest (SSSI) (within 200m of ARN) $\overline{}$
- Local Nature Reserves (LNR) (within 200m of ARN) $\overline{\mathcal{L}}$





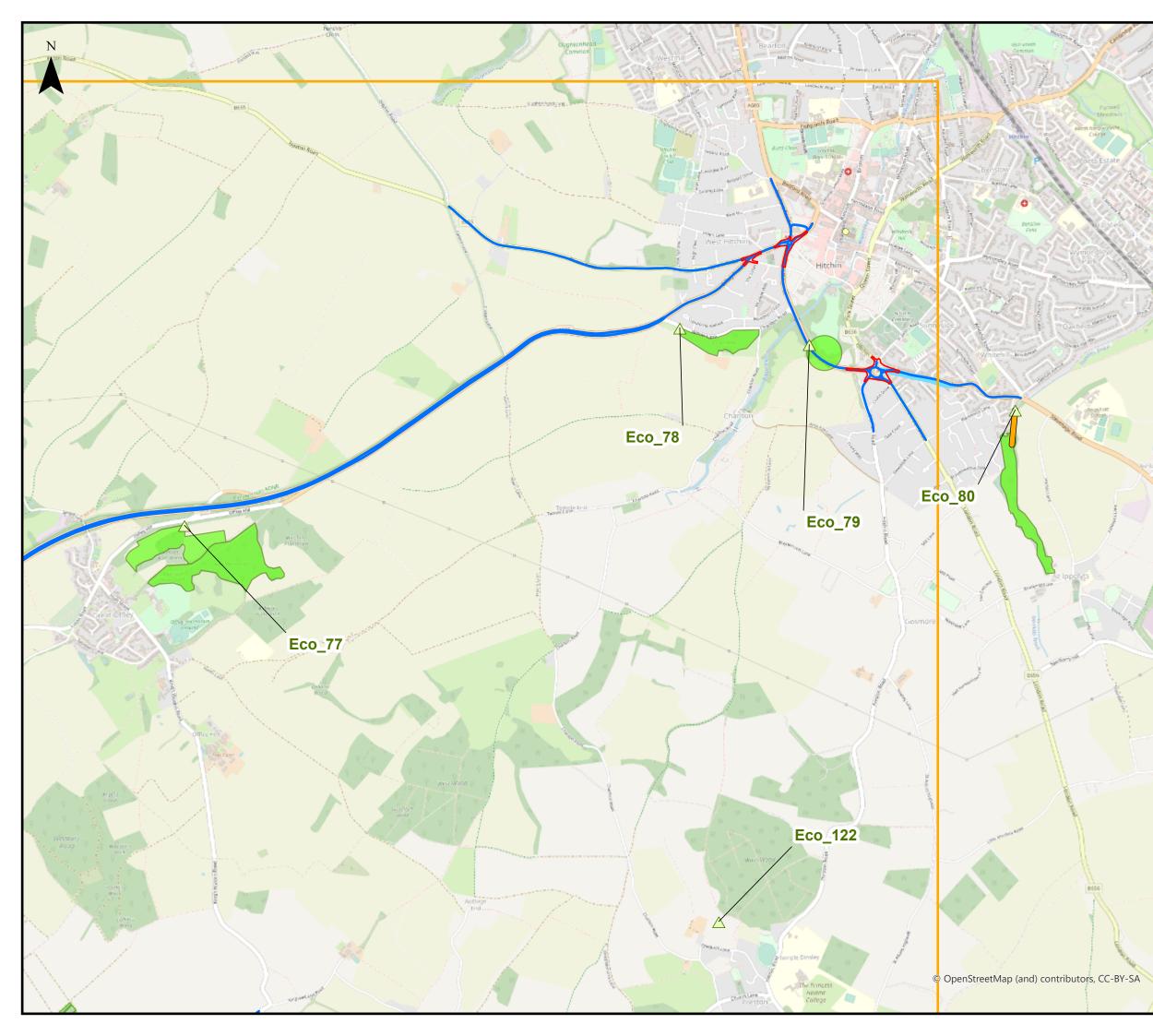
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Figure 7.3b Modelled ecological receptors Page: 3 of 11

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Modelled Ecological Receptor

Local Wildlife Sites

Transects

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Air Quality Management Areas (AQMAs)

Veteran Tree (within 200m of ARN) \circ

Sites of Special Scientific Interest (SSSI) (within 200m of ARN) $\overline{}$

Local Nature Reserves (LNR) (within 200m of ARN) \square

Ancient Woodland (within 200m of ARN)

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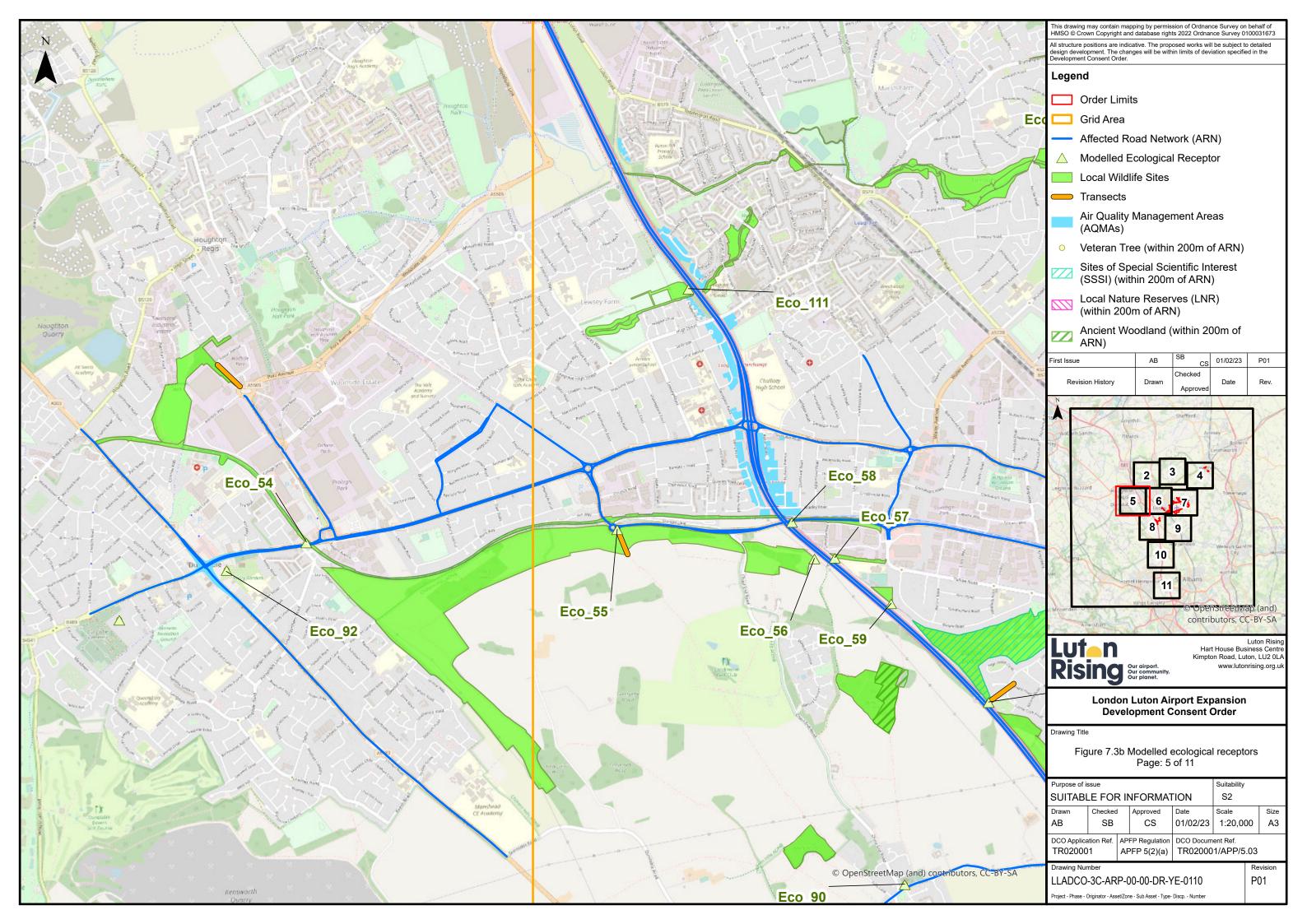
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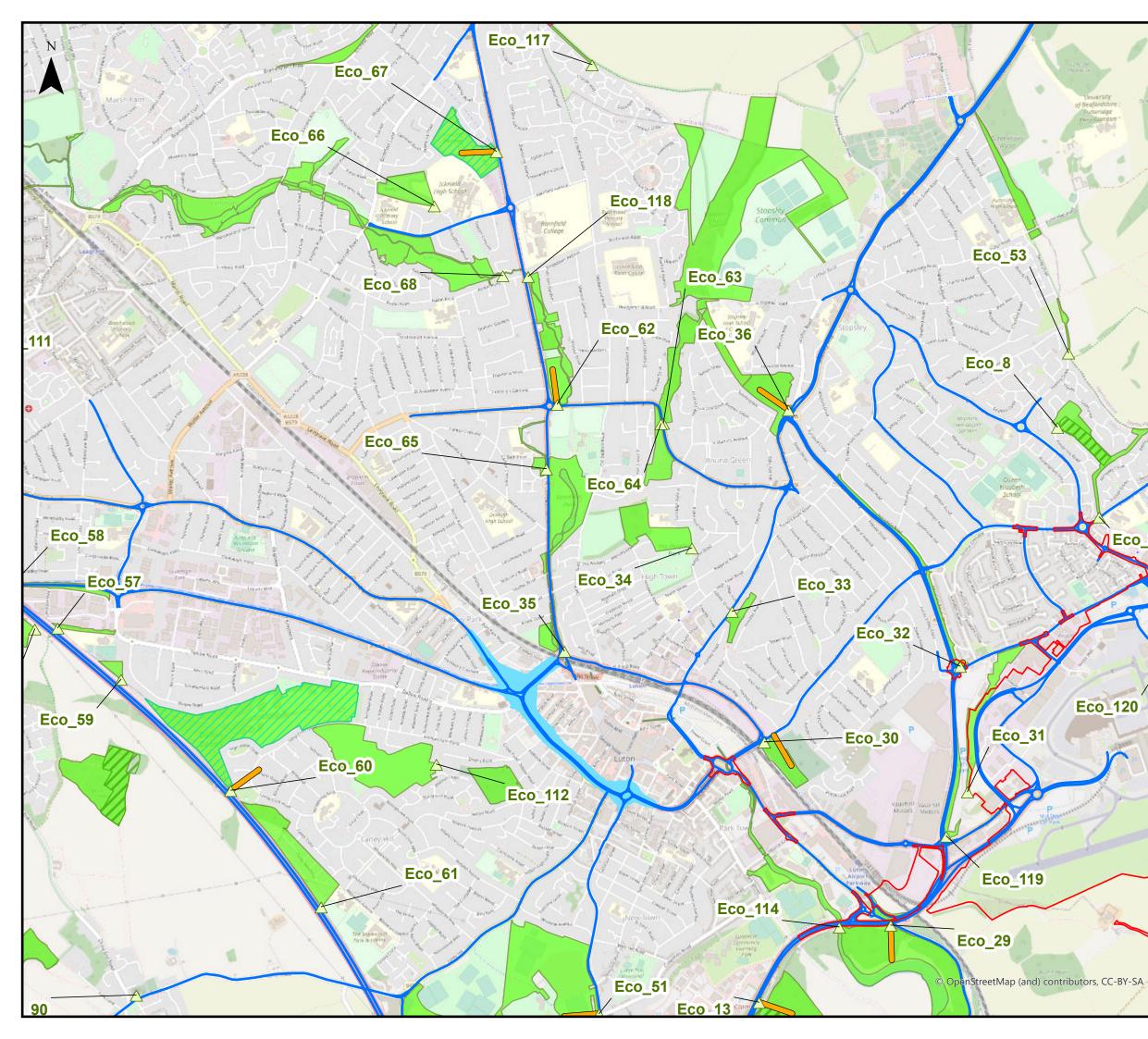
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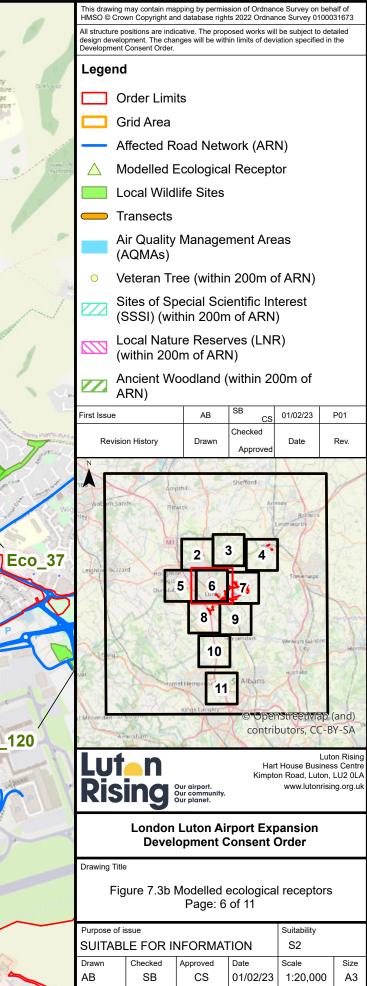
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Figure 7.3b Modelled ecological receptors Page: 4 of 11

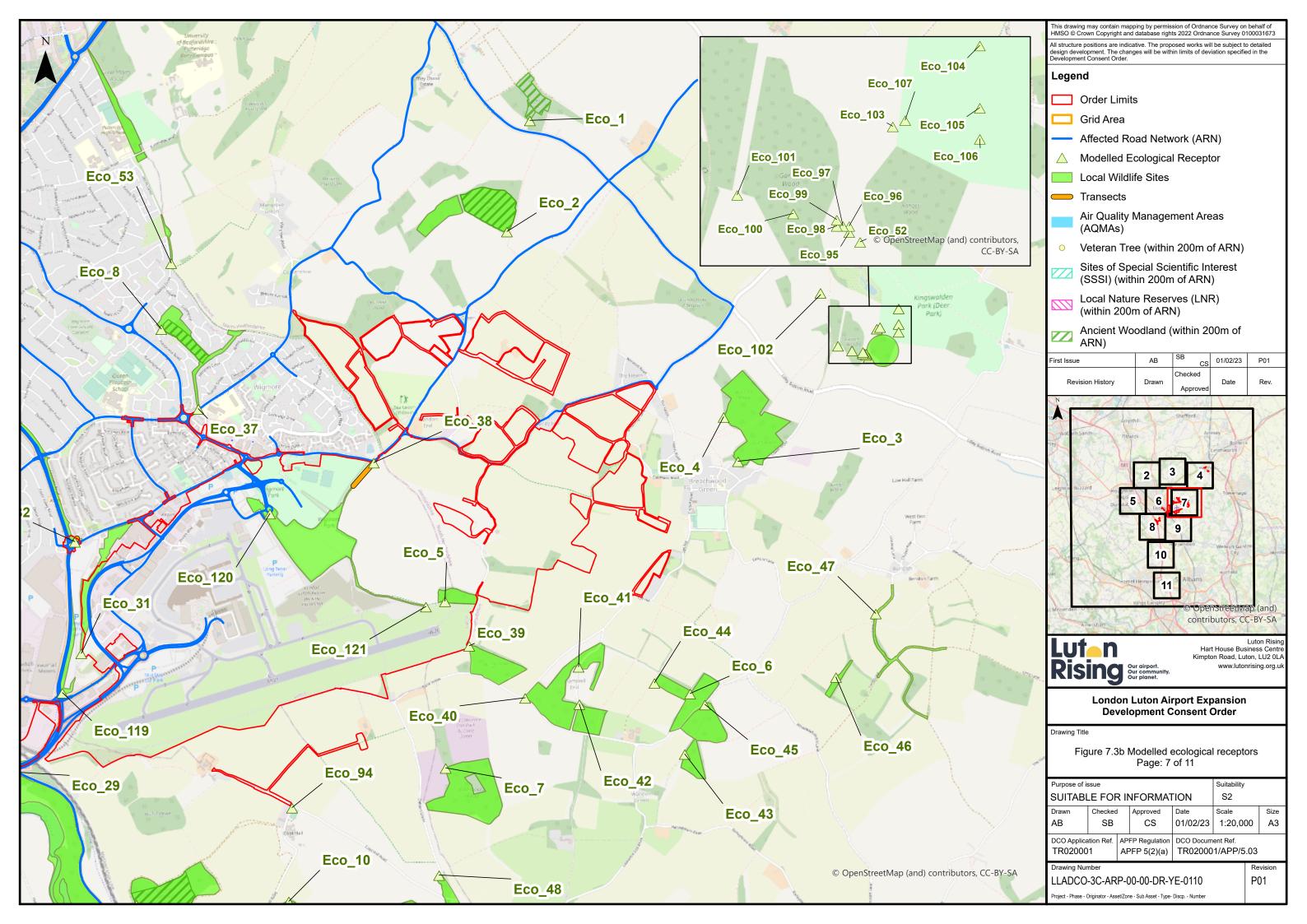
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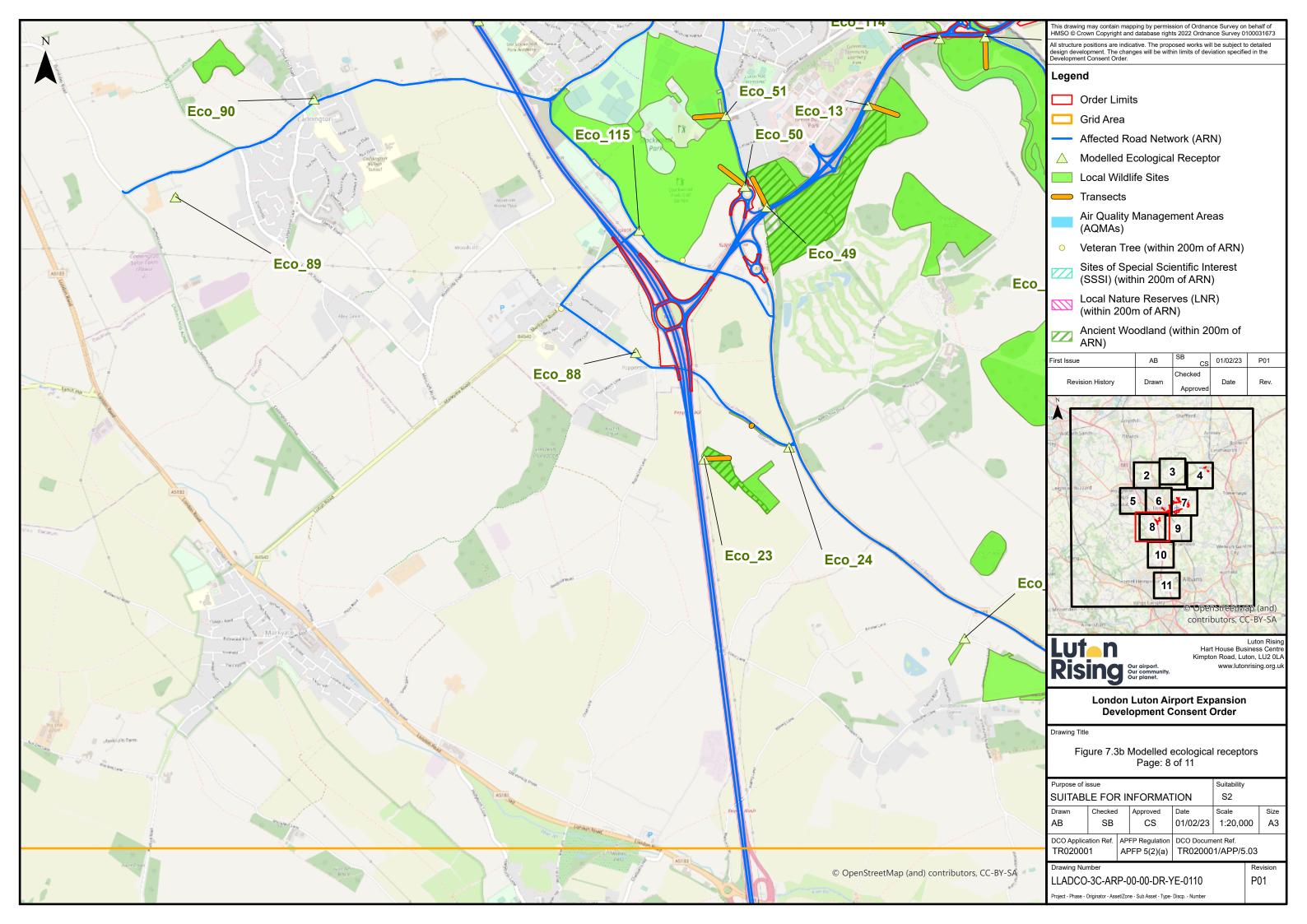


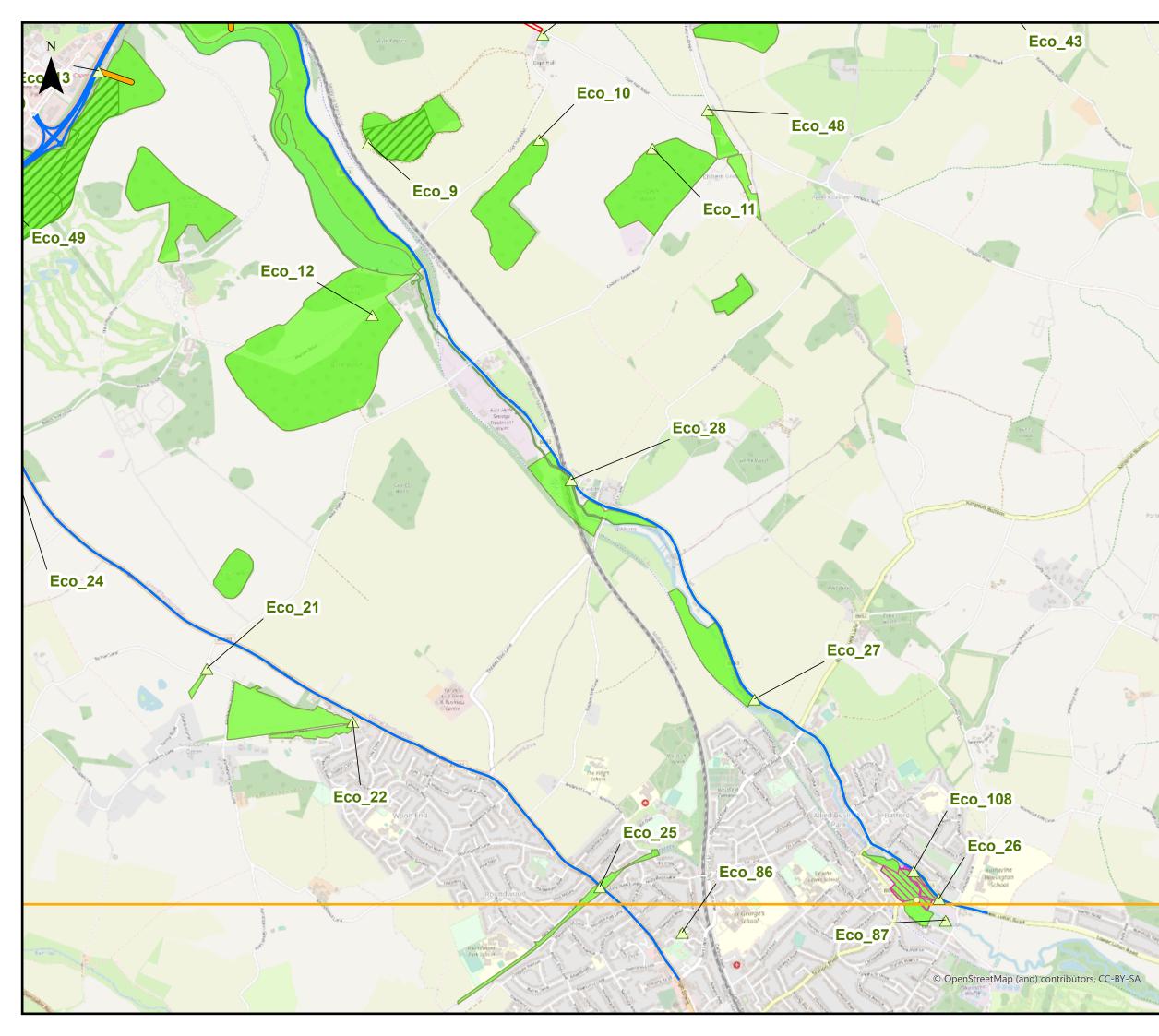




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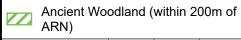


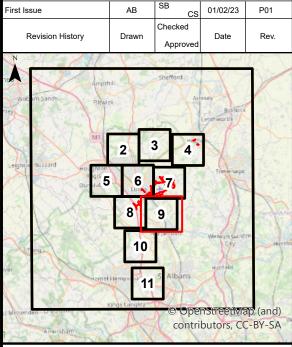
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Legend

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- Order Limits
- Grid Area
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 - Air Quality Management Areas (AQMAs)
- Veteran Tree (within 200m of ARN)
- Sites of Special Scientific Interest (SSSI) (within 200m of ARN)
- Local Nature Reserves (LNR) (within 200m of ARN)





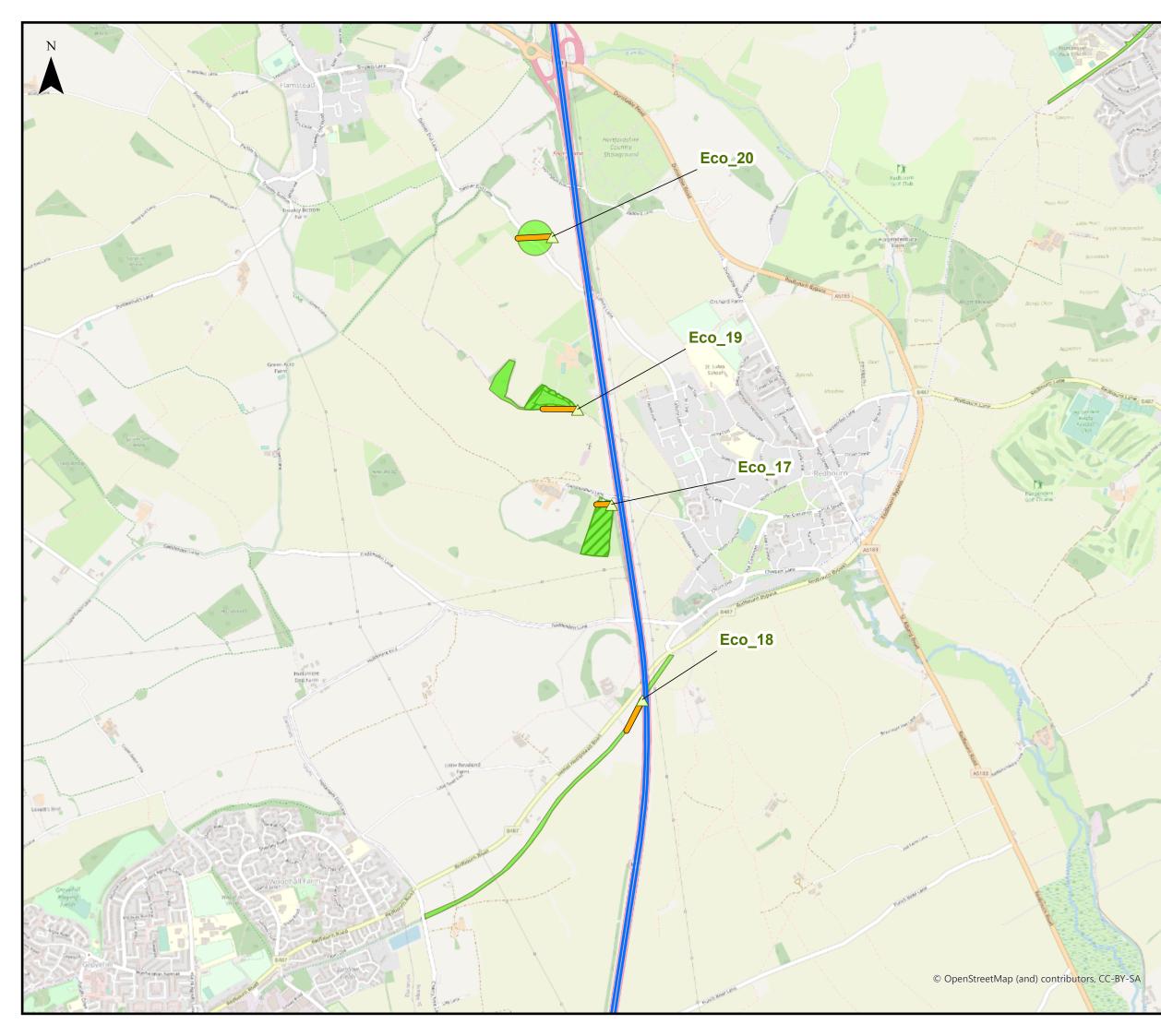


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Figure 7.3b Modelled ecological receptors Page: 9 of 11

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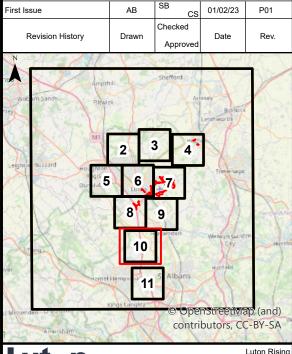
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Order Limits

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- Grid Area
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- Local Nature Reserves (LNR) (within 200m of ARN)





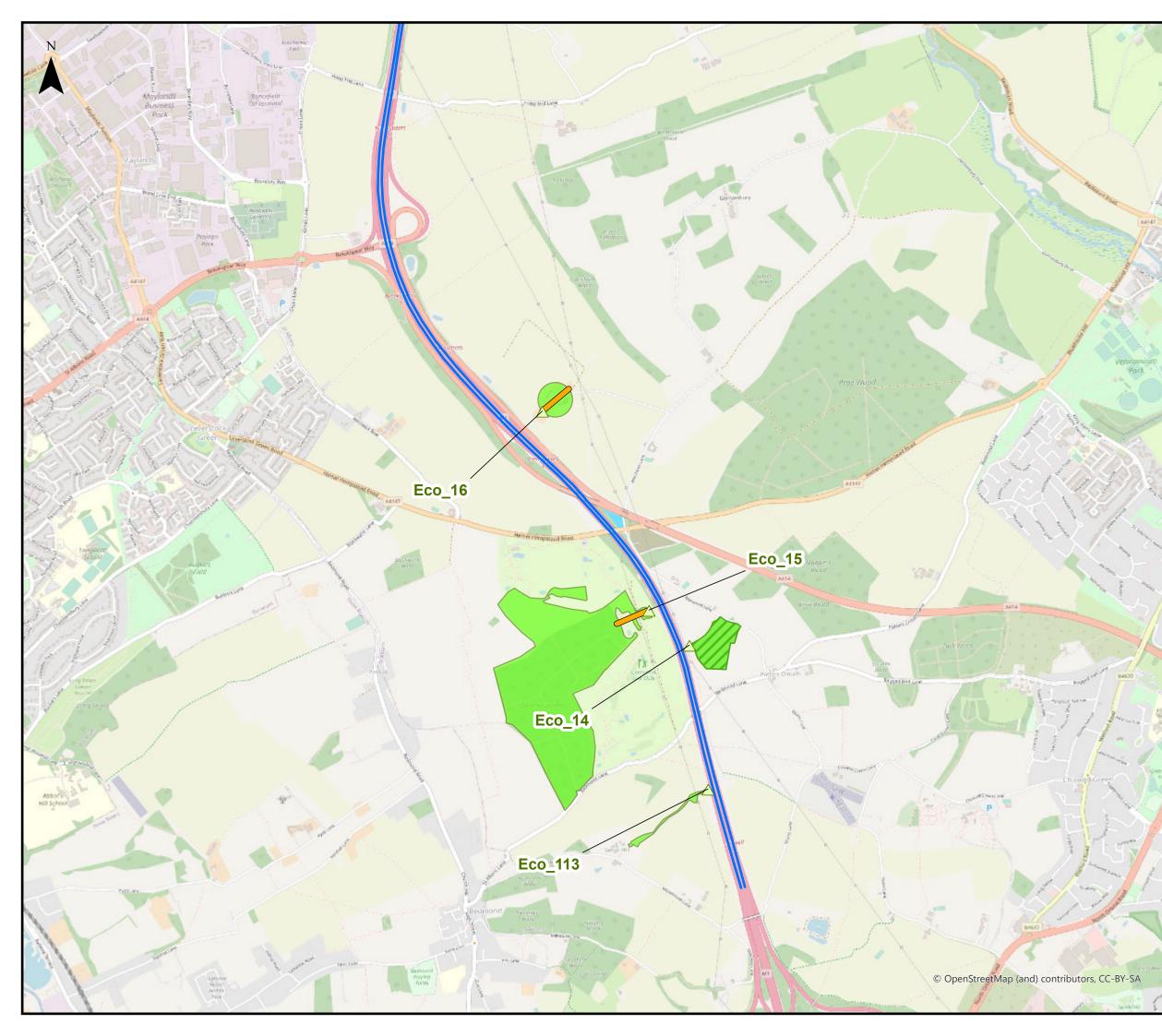
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Figure 7.3b Modelled ecological receptors Page: 10 of 11

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Legend

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- Order Limits
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- Local Nature Reserves (LNR) (within 200m of ARN)

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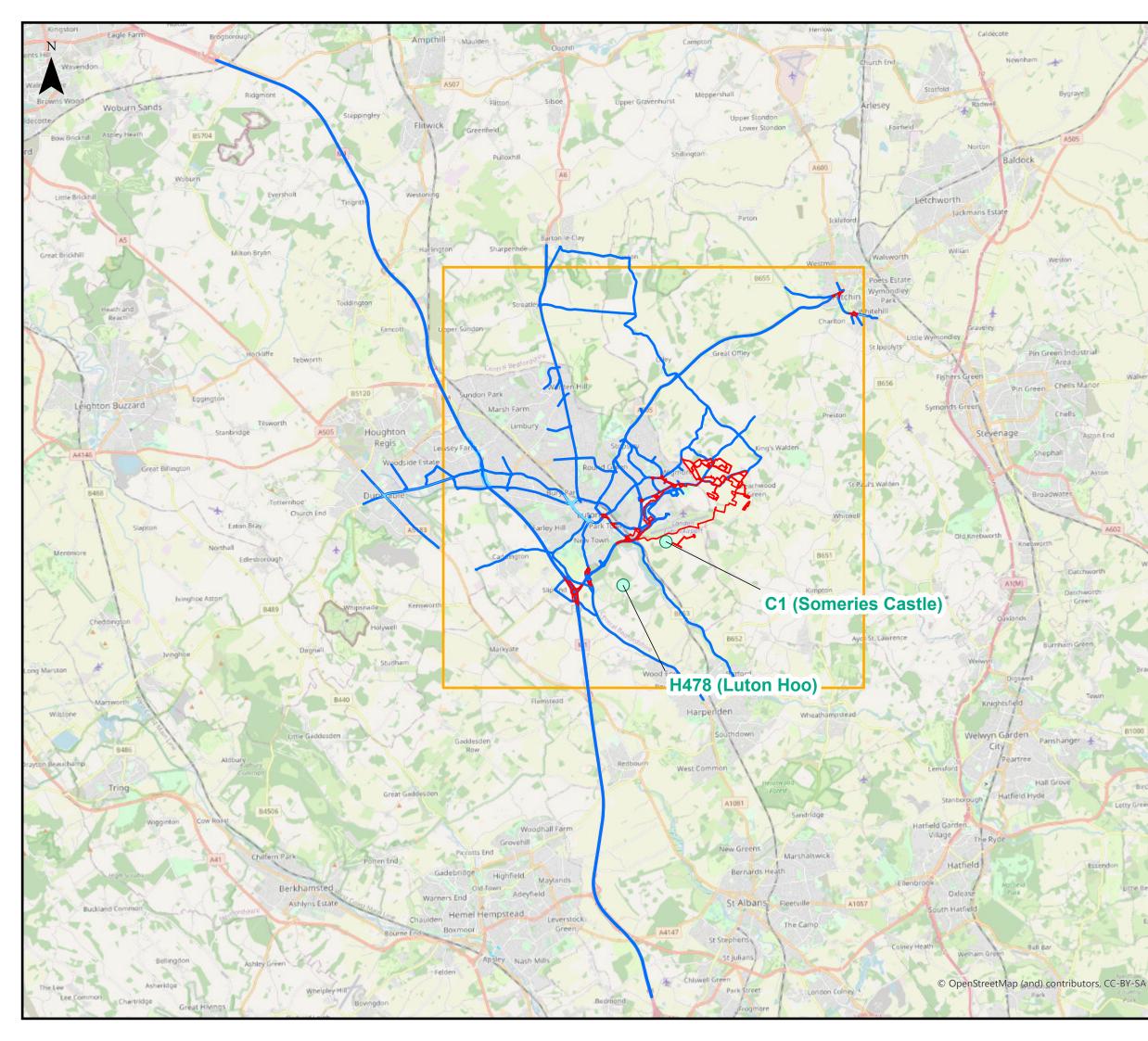


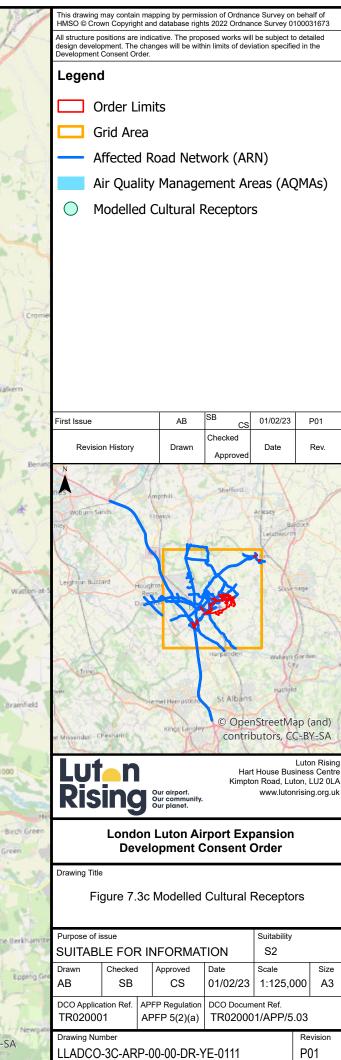
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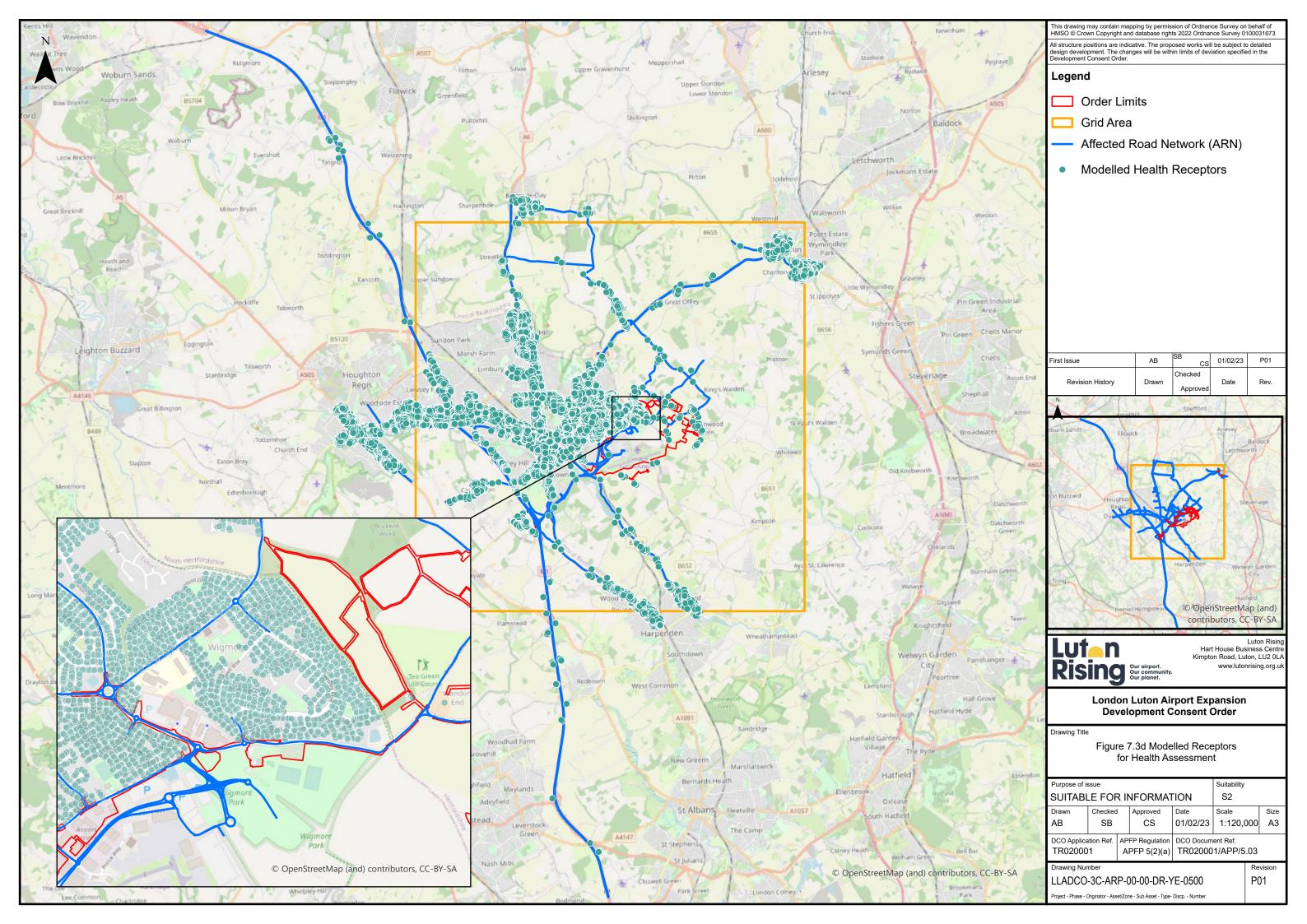
Figure 7.3b Modelled ecological receptors Page: 11 of 11

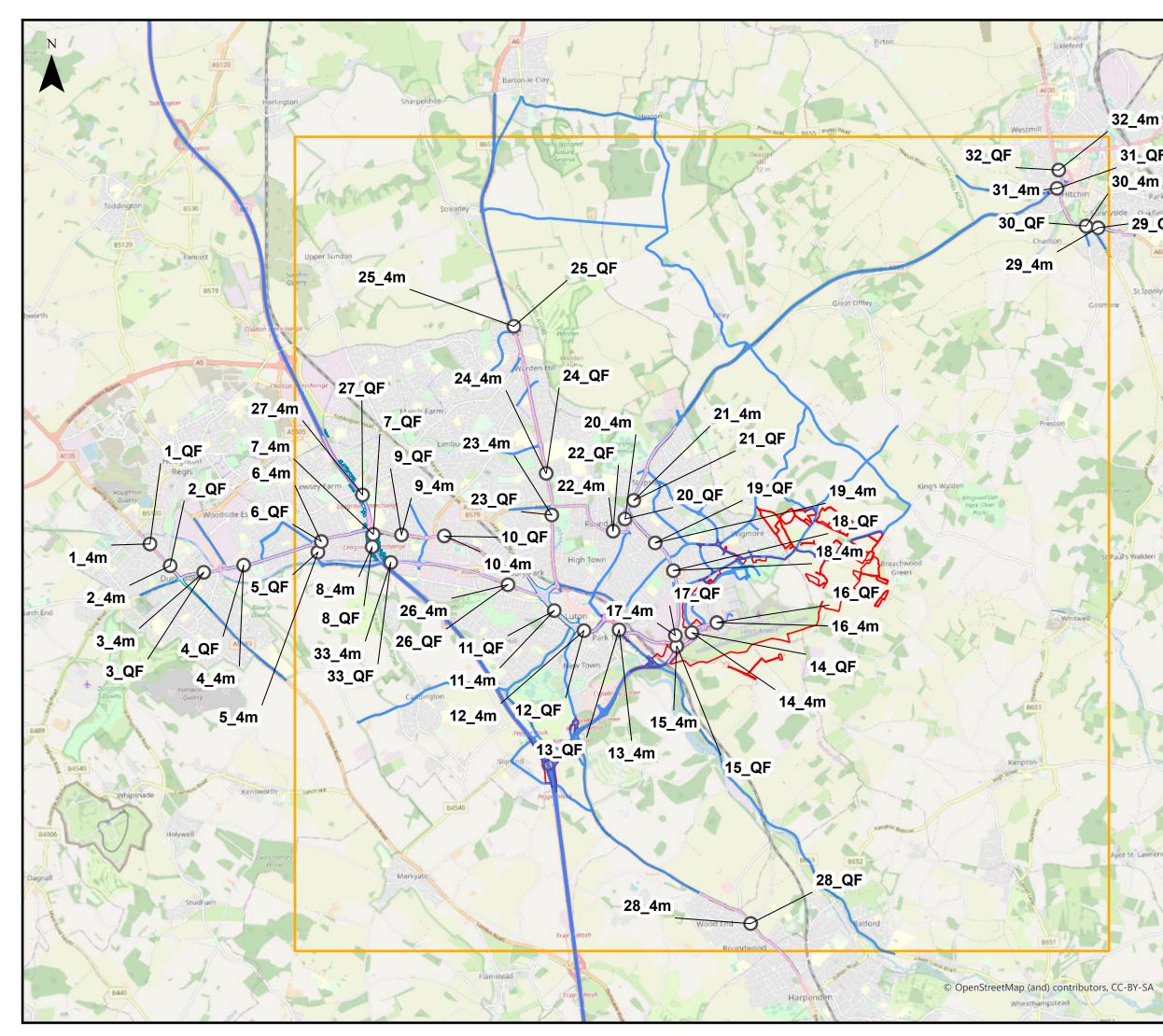
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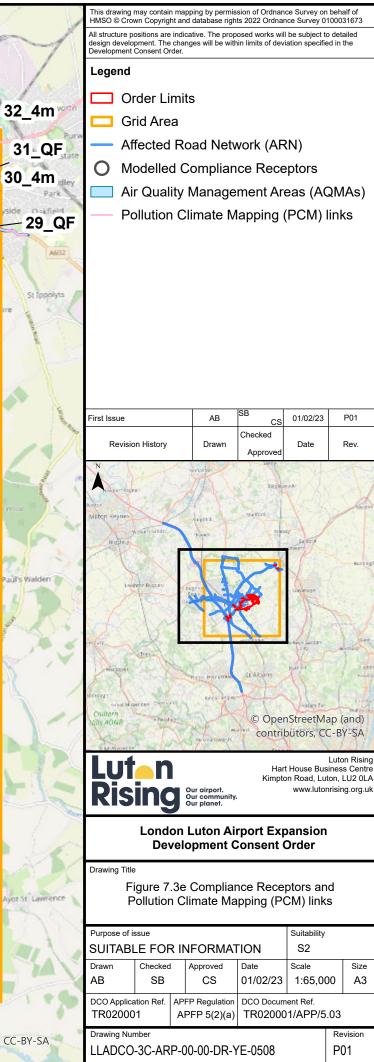


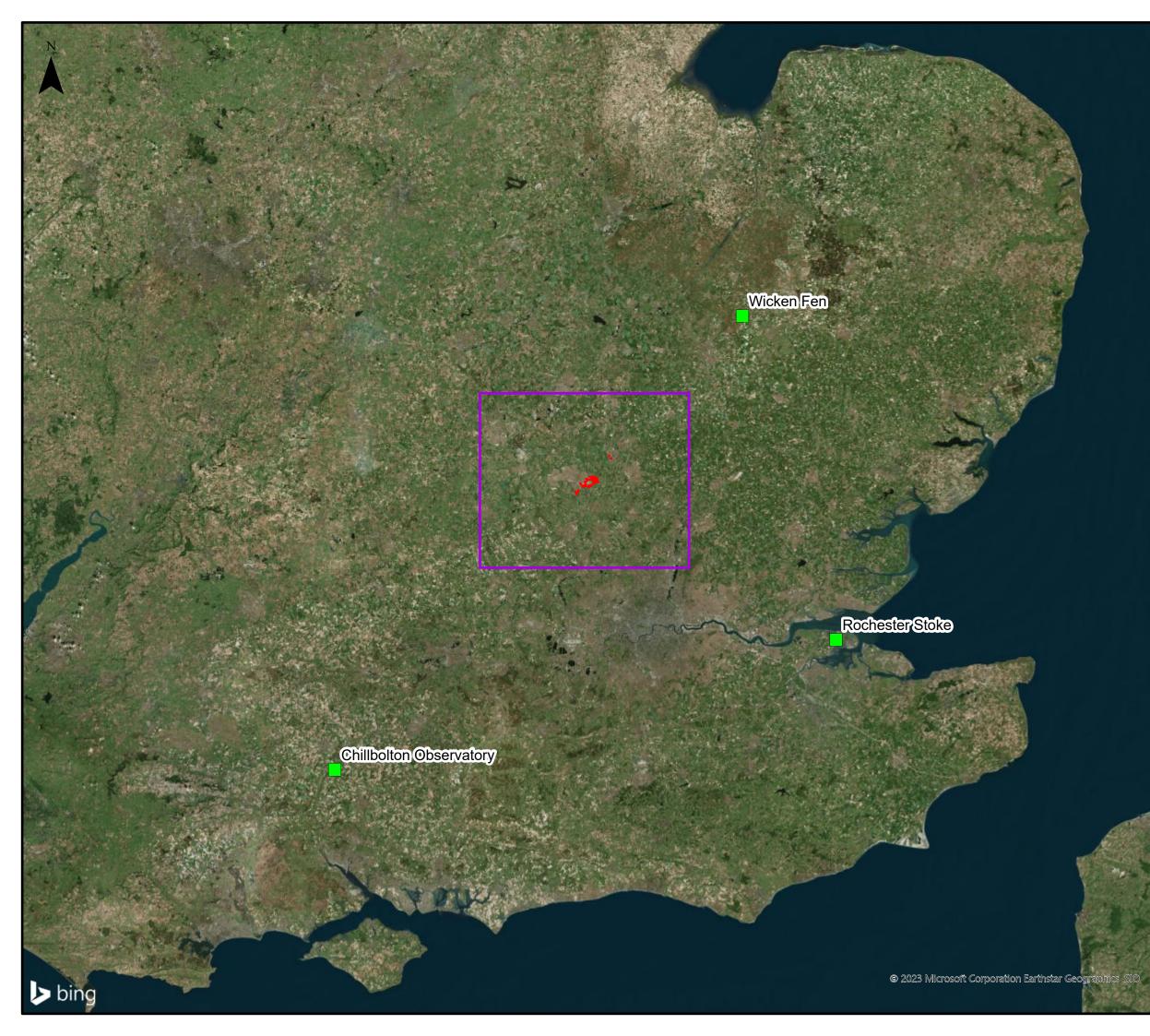


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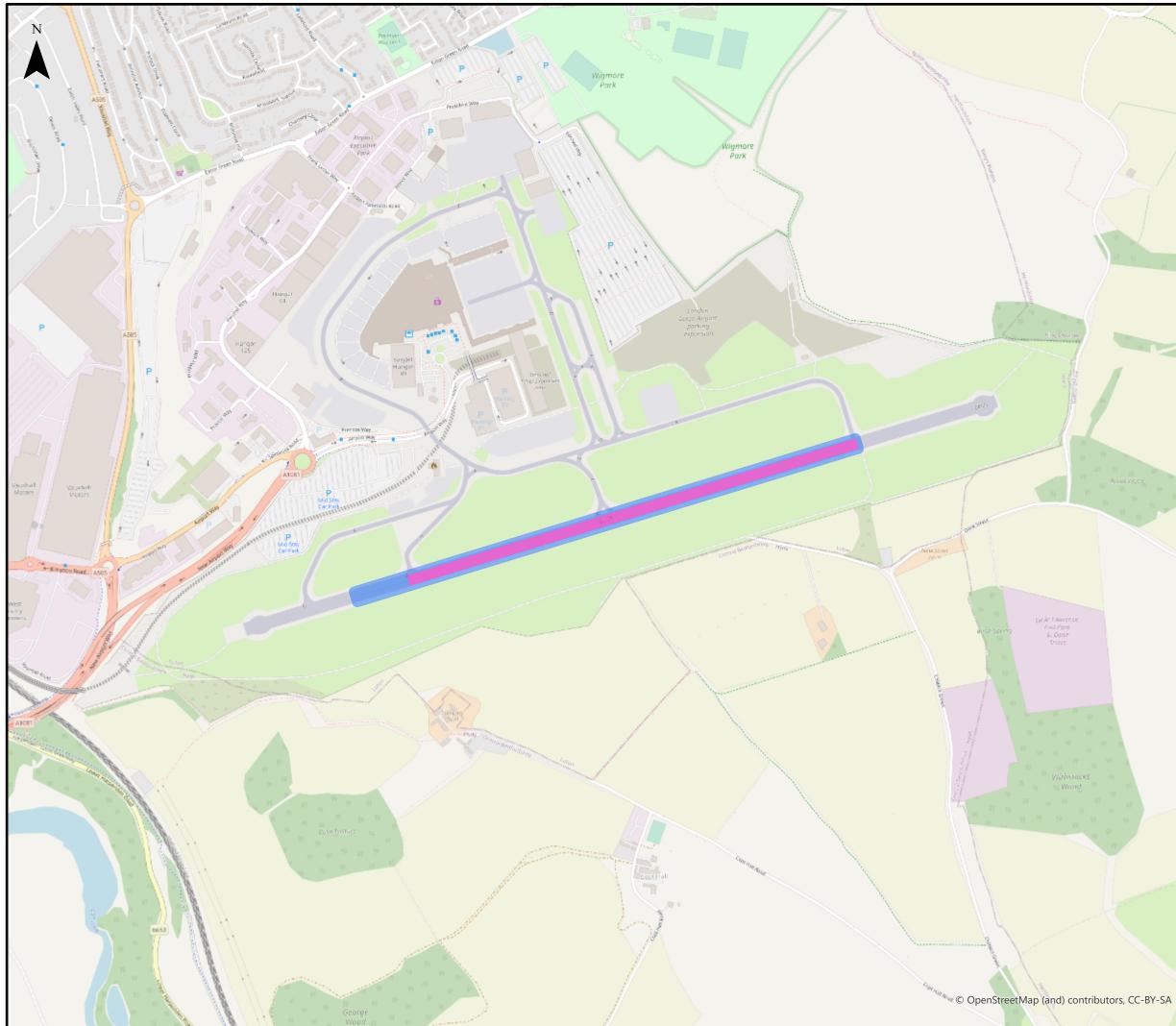








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Legend



Arrivals brake and tyre wear 07 Arrivals brake and tyre wear 25

Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

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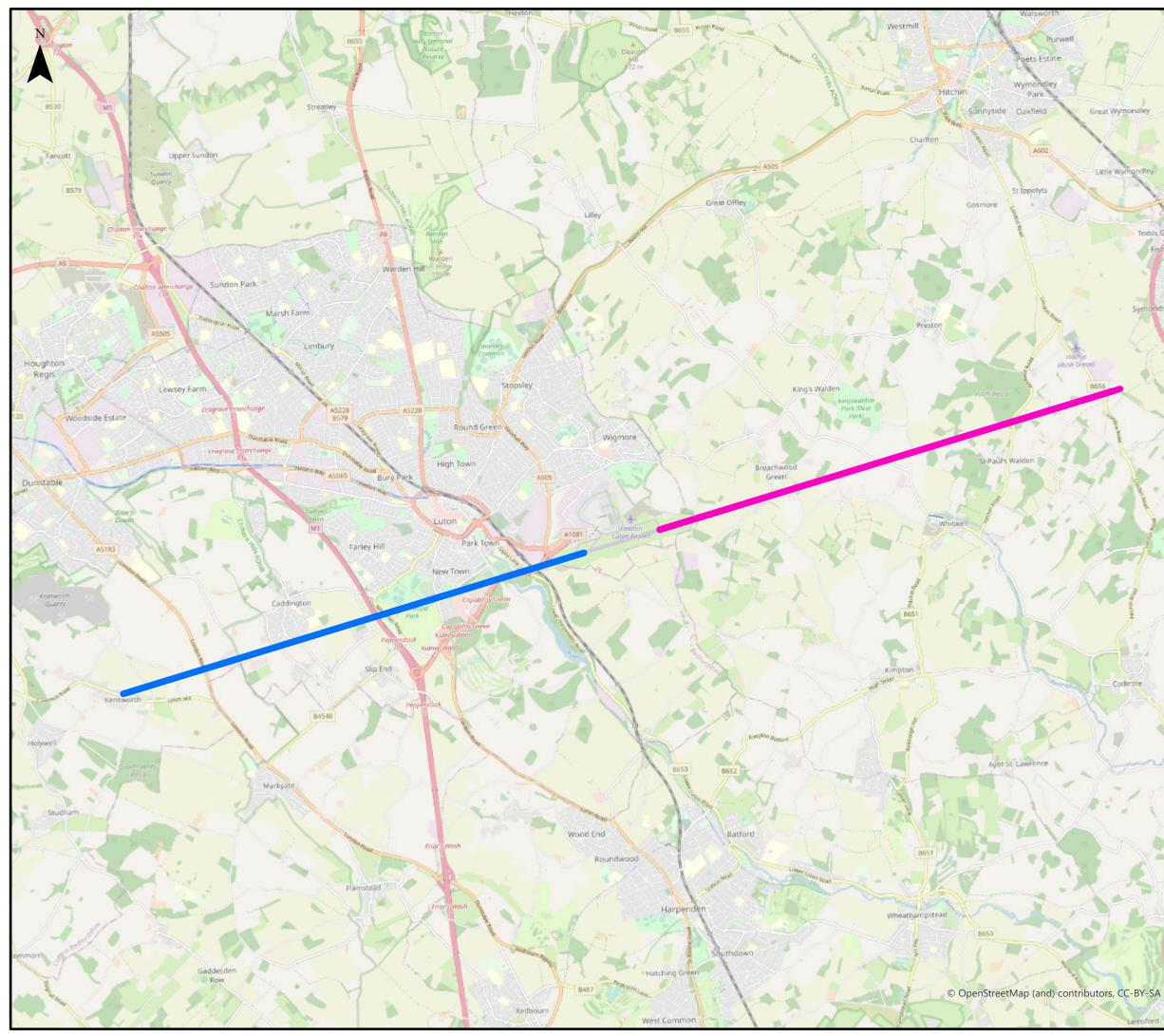
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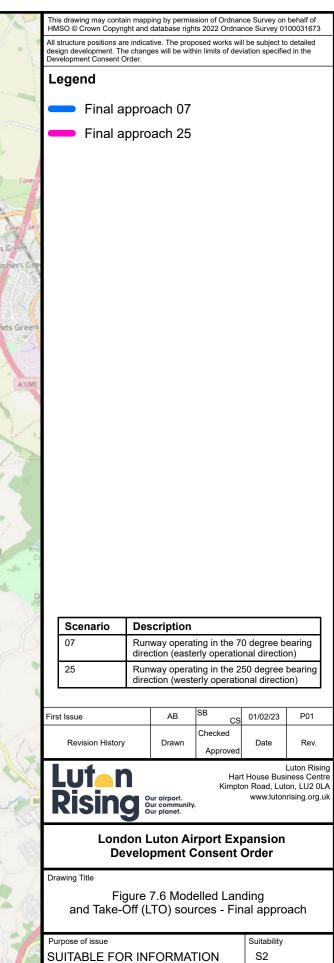
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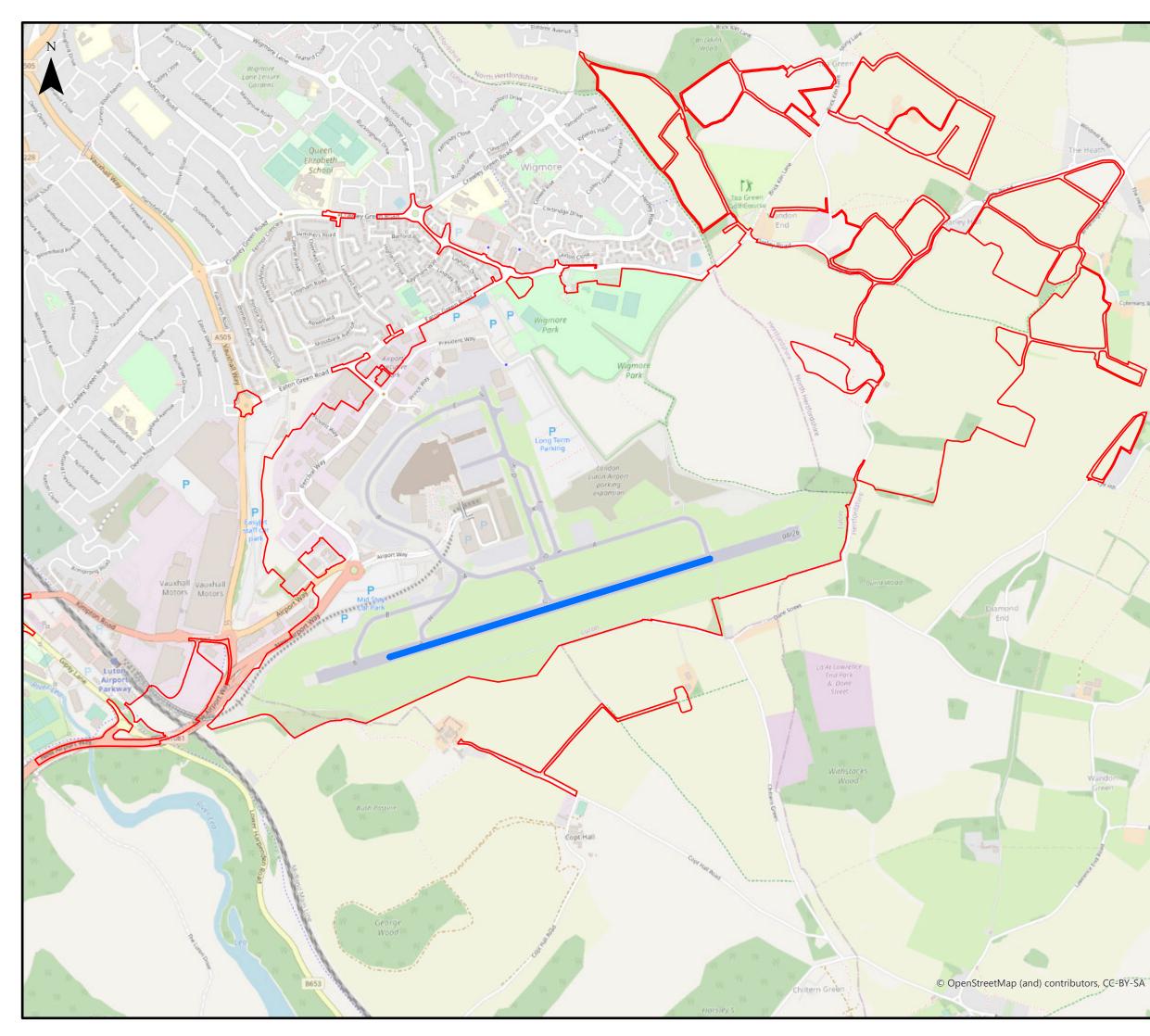
Figure 7.5 Modelled Landing and Take Off (LTO) sources - brake & tyre wear

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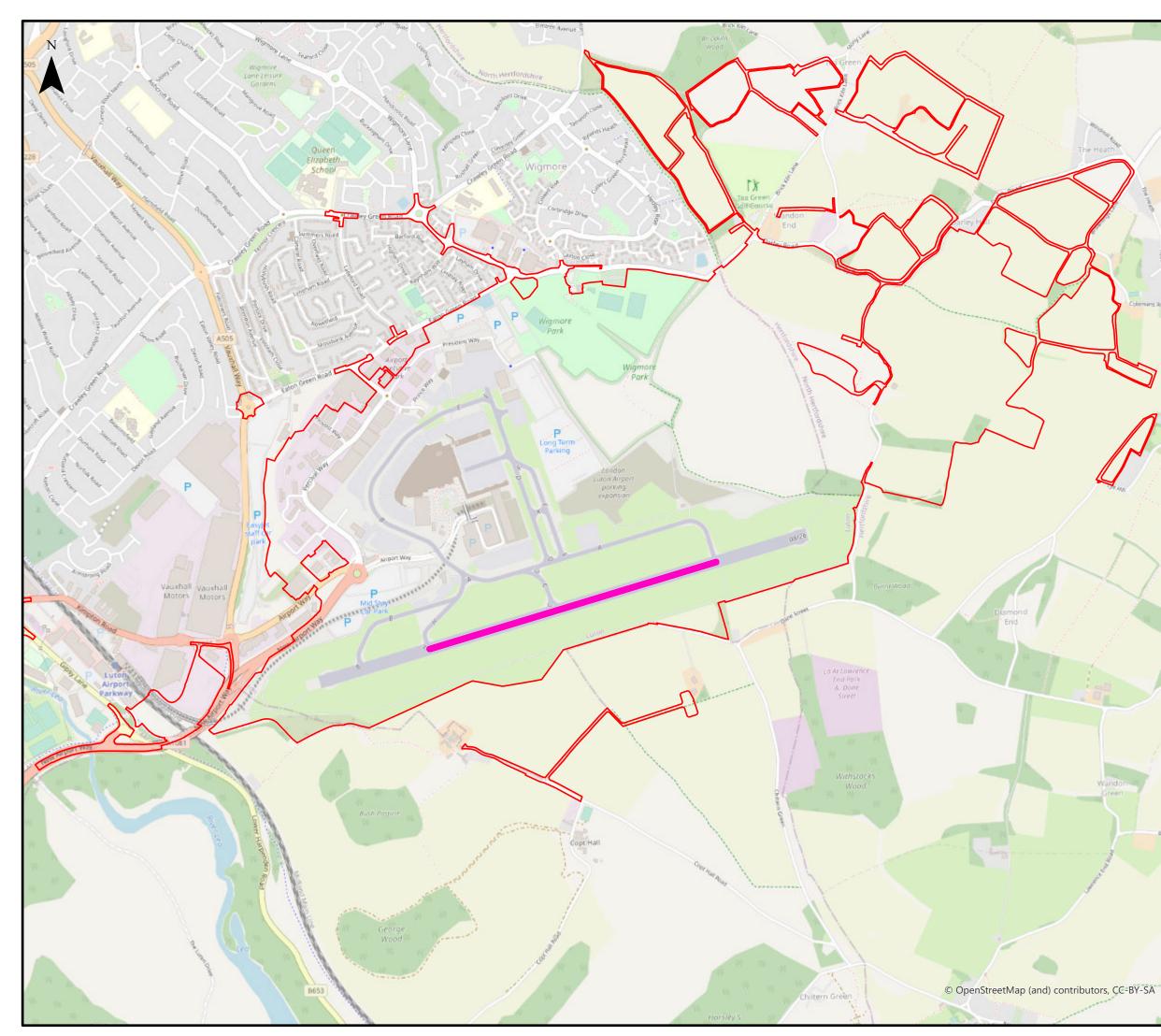


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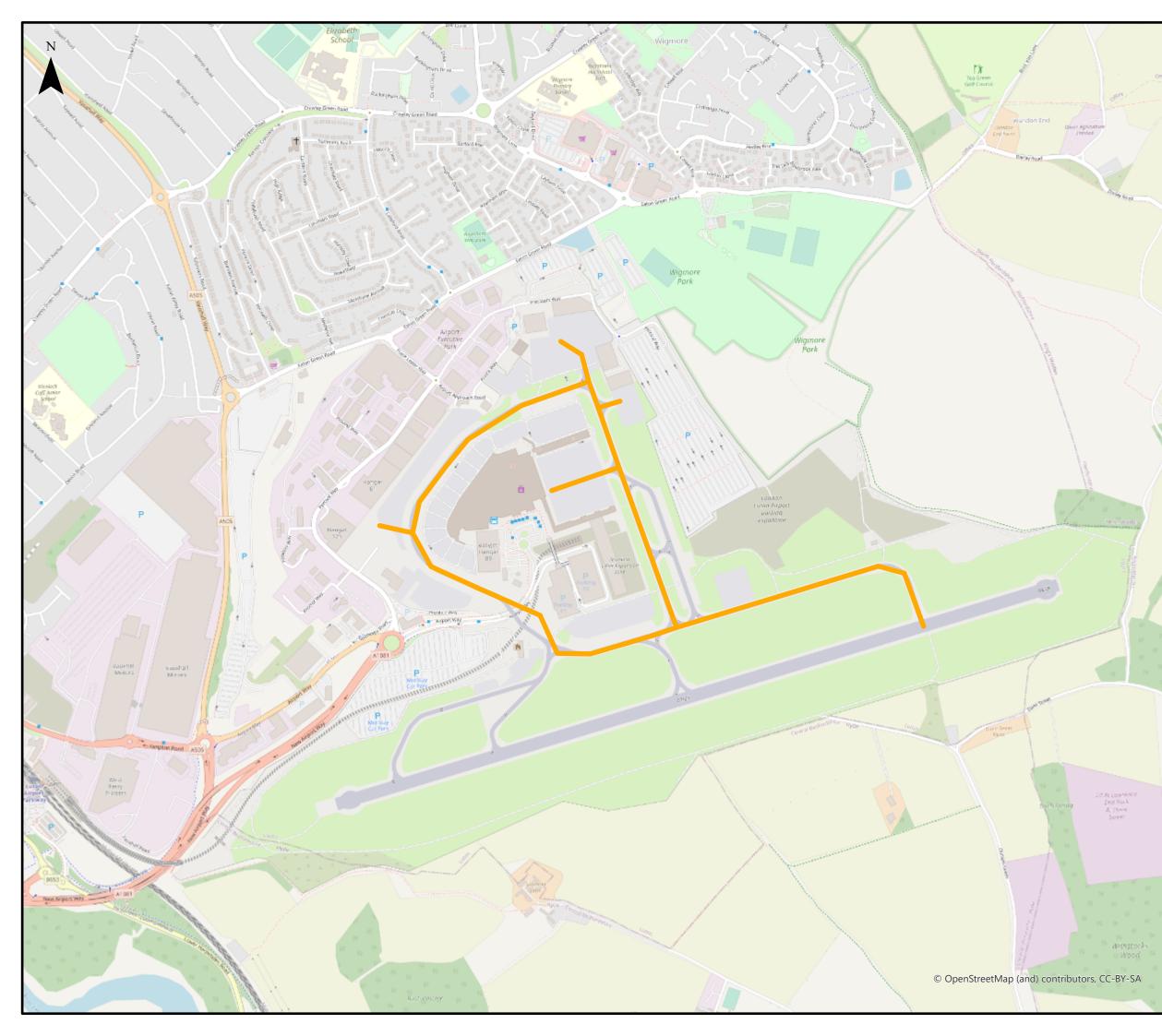
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Legend



Scenario Description					
07	Runway operating in the 70 degree bearing direction (easterly operational direction)				
25	Runway operating in the 250 degree bearing direction (westerly operational direction)				

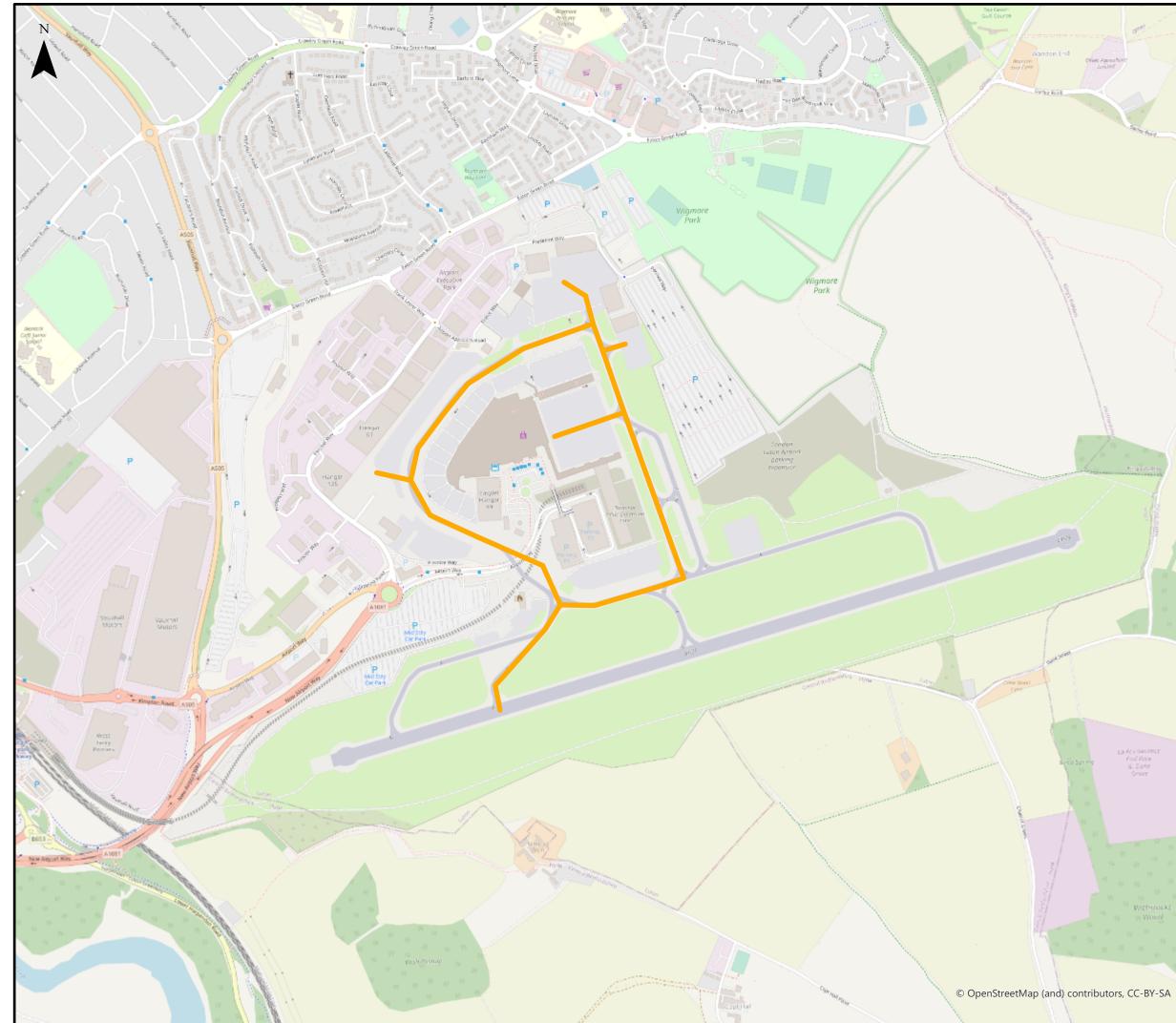
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London Luton Airport Expansion Development Consent Order

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Figure 7.9 Modelled Landing and Take-Off (LTO) sources - taxi in 07 in baseline and future Do-Minimum (DM) scenarios

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Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
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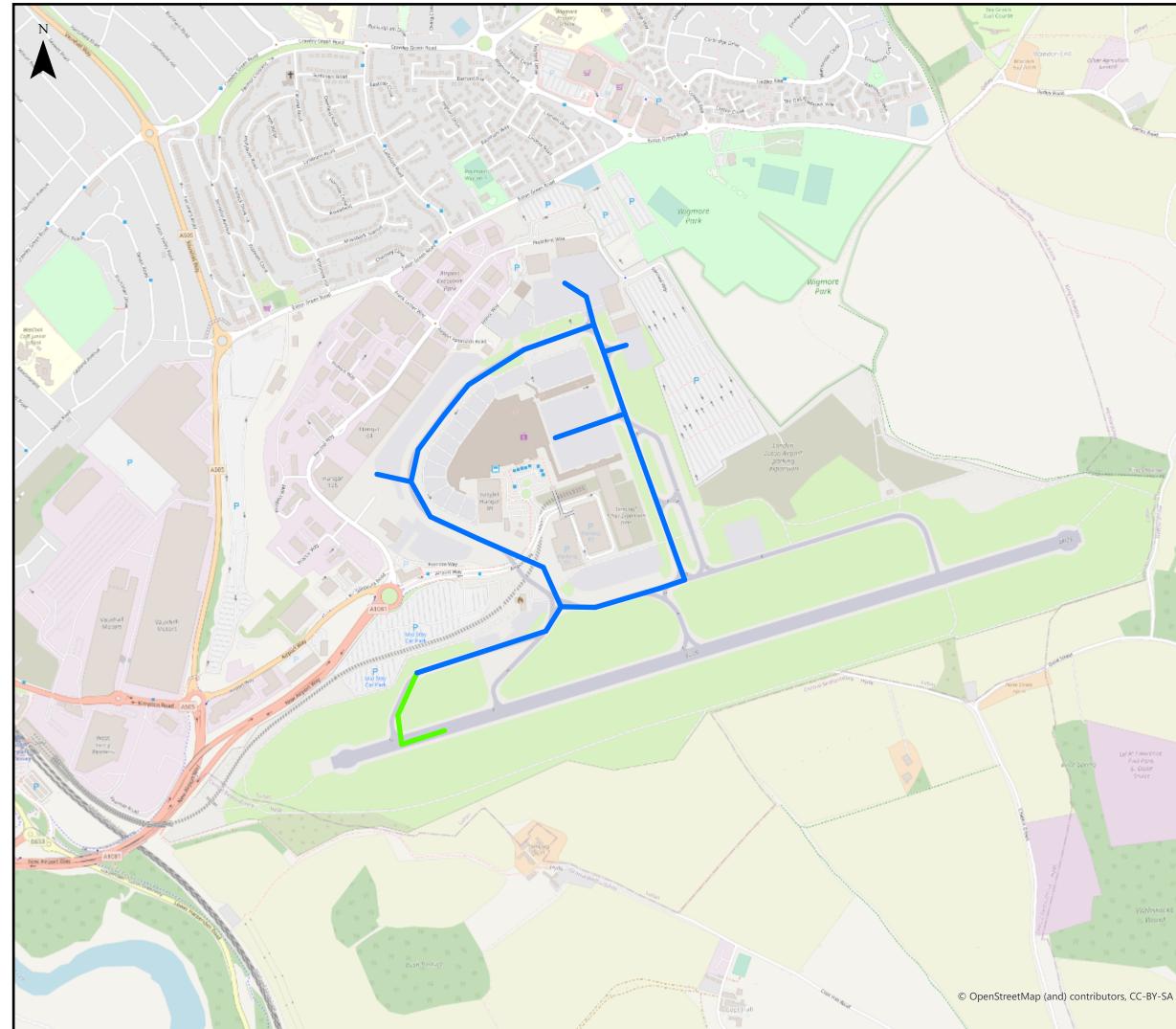
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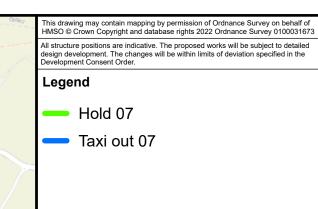
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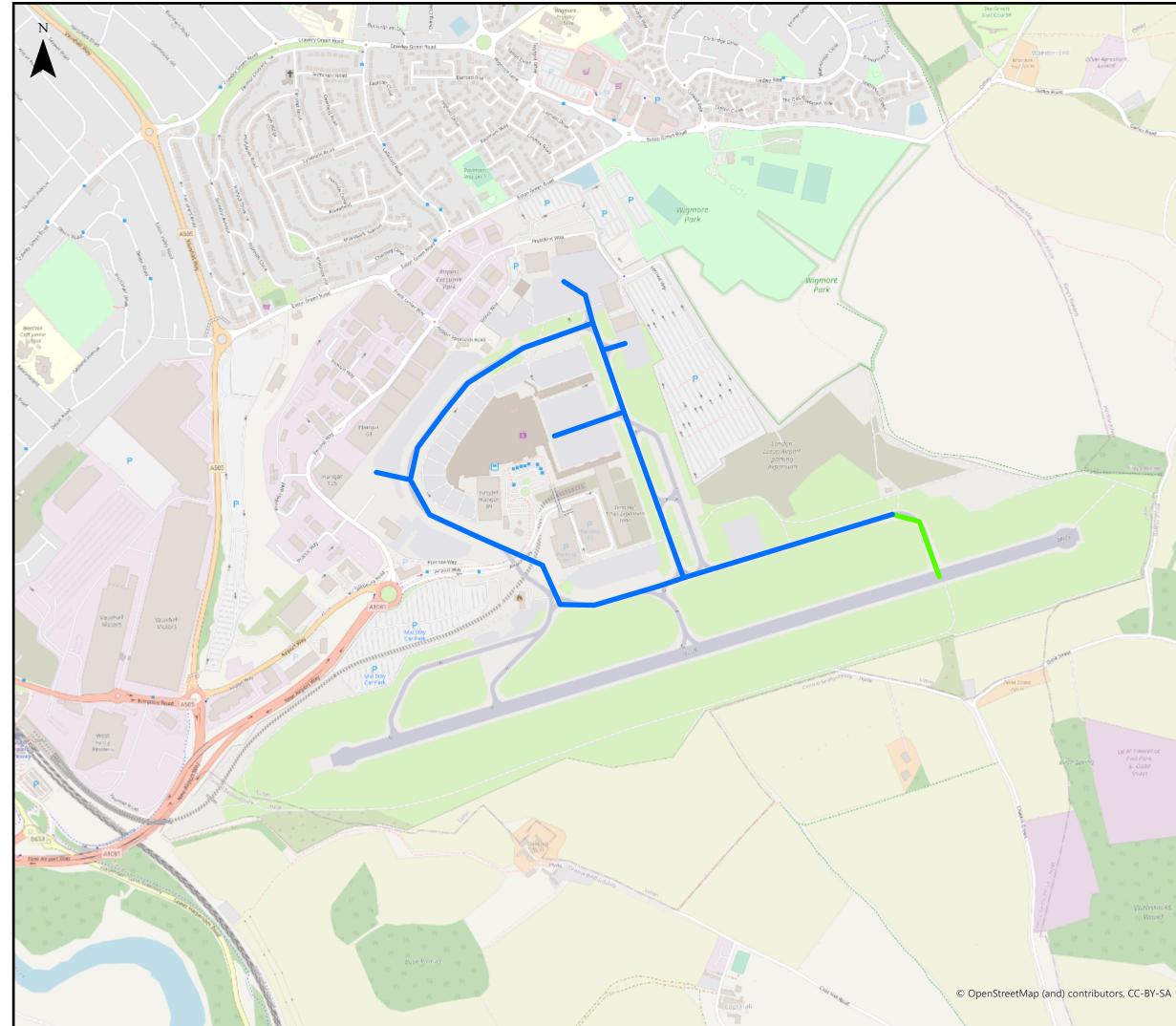


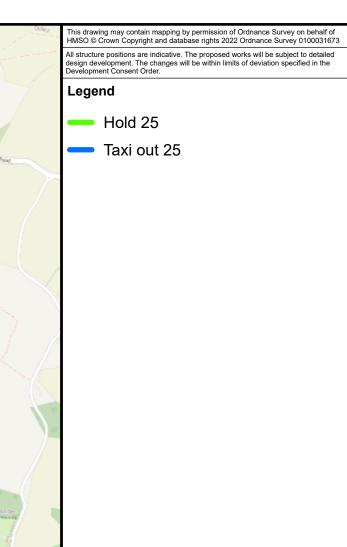


Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

First Issue	AB	SB CS	01/02/23	P01
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Luton Rising Our airport. Our community. Our planet. Luton Risin Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.ul London Luton Airport Expansion Development Consent Order Drawing Title Figure 7.11 Modelled Landing and Take-Off (LTO) sources - taxi out 07 baseline and future Do-Minimum (DM) scenarios Purpose of issue Suitability SUITABLE FOR INFORMATION S2 Drawn Checked Scale Approved Size Date 01/02/23 1:10,000 A3 AB SB CS DCO Application Ref. APFP Regulation DCO Document Ref. TR020001 APFP 5(2)(a) TR020001/APP/5.03 Drawing Number Revision P01 LLADCO-3C-ARP-00-00-DR-YE-0083 Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number

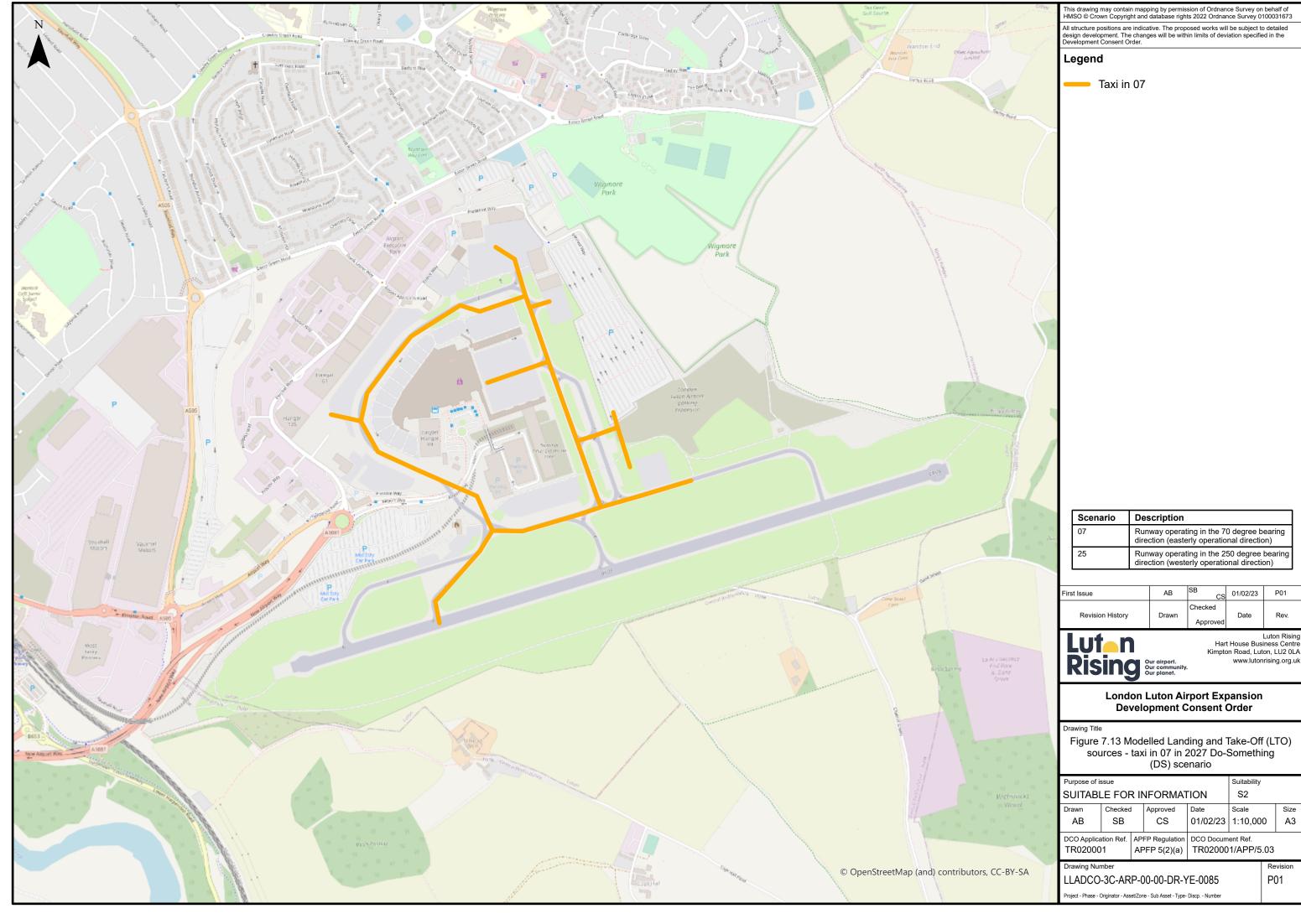




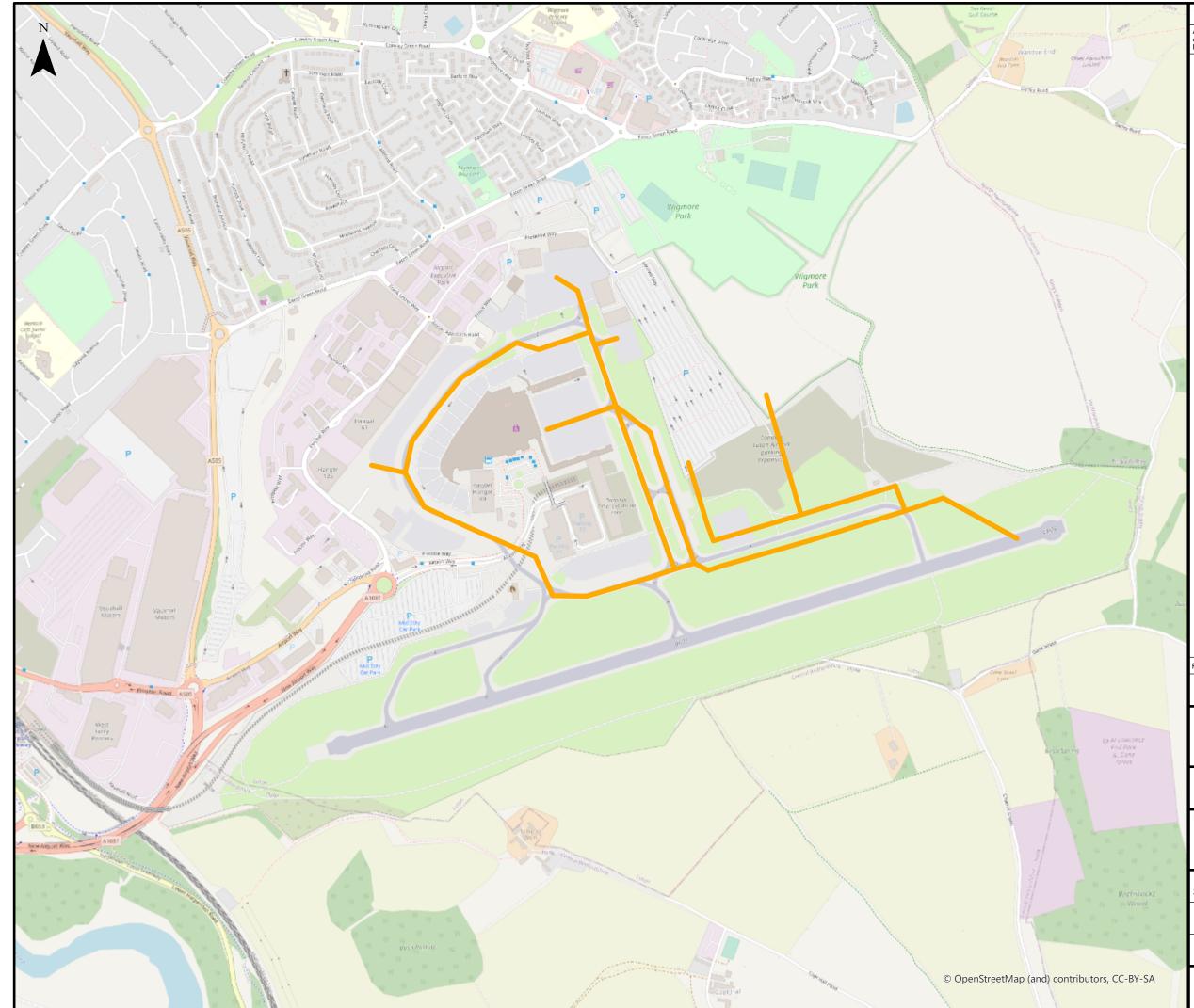
Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

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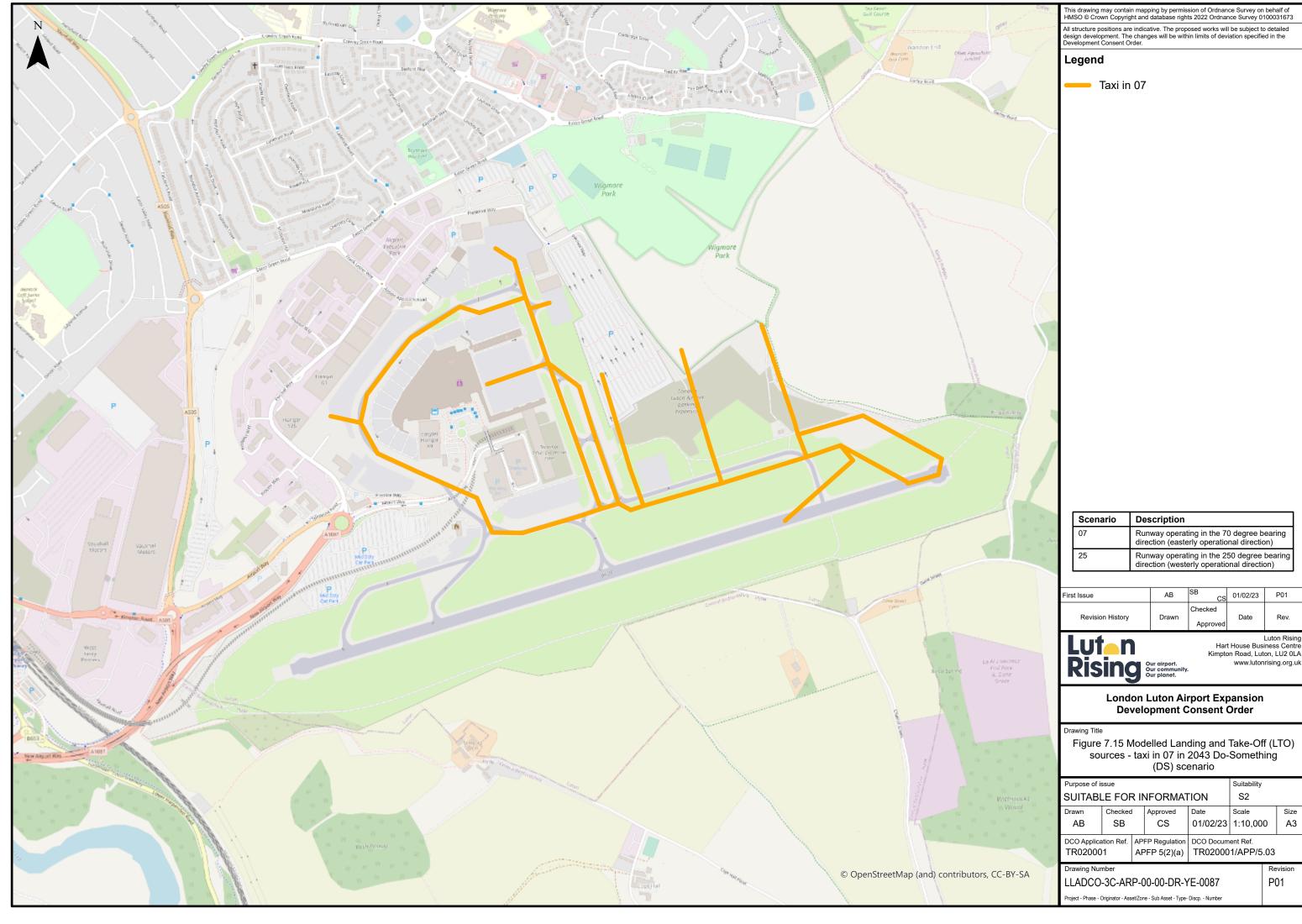


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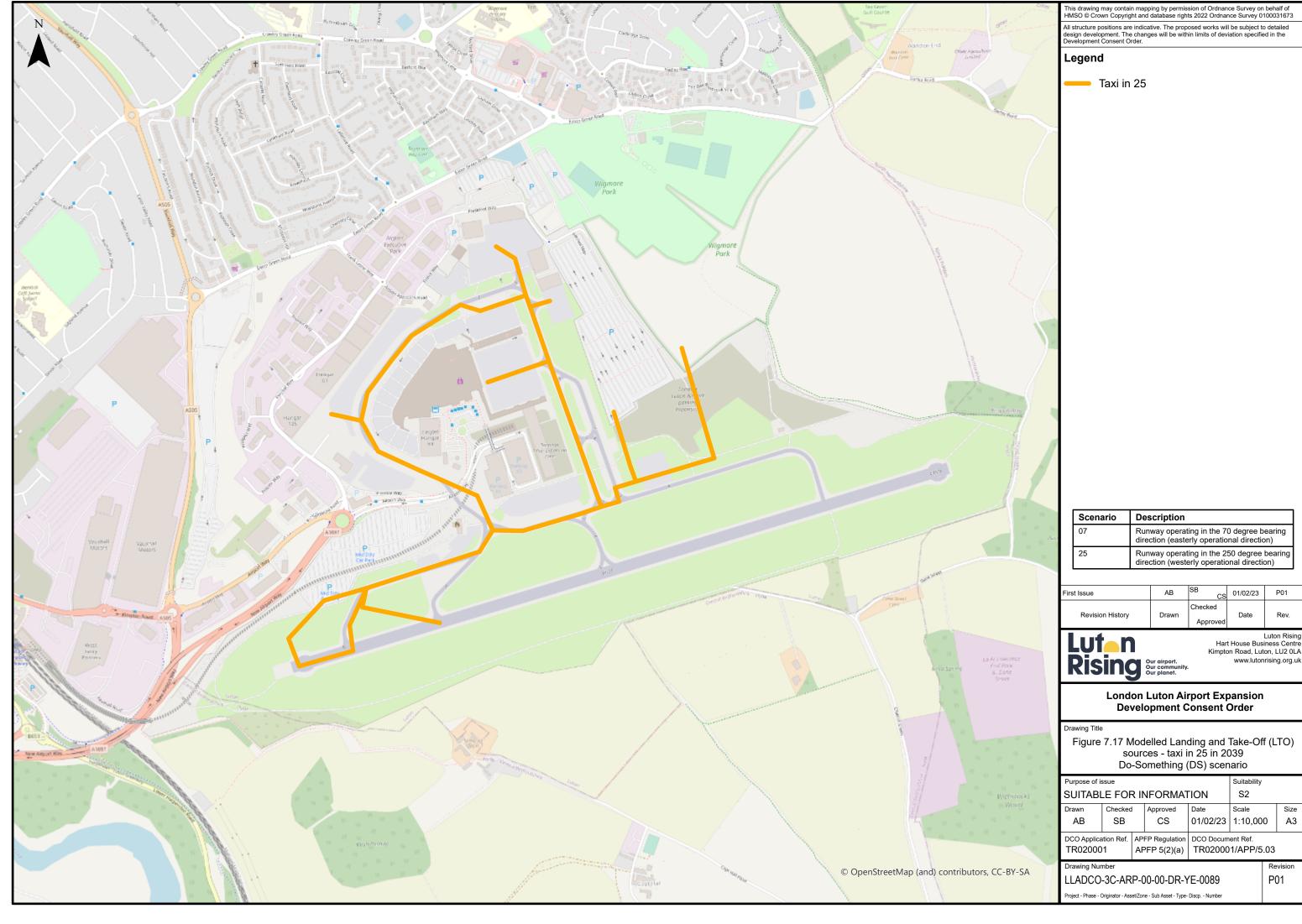
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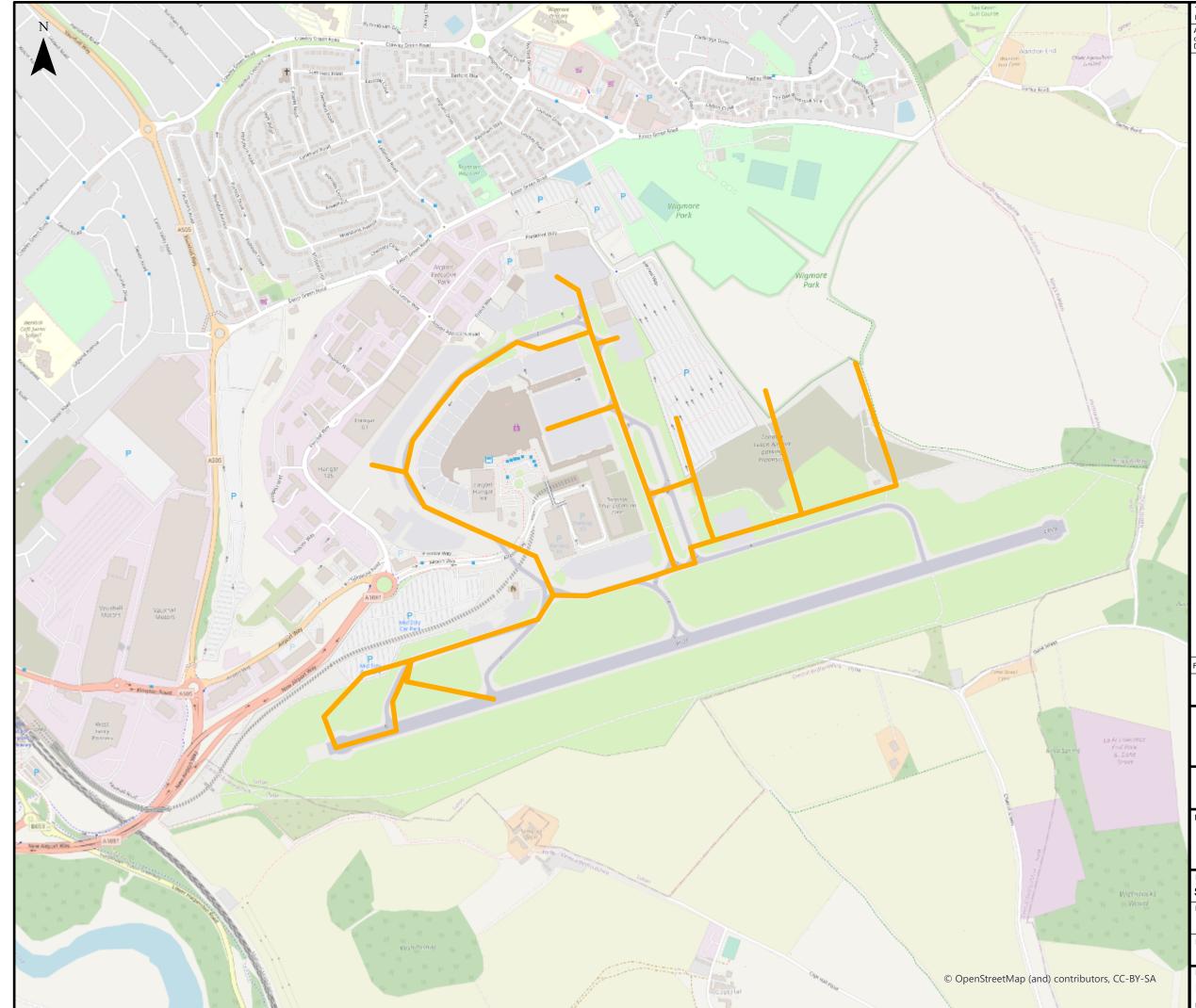
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07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

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Luton Rising Our disport. Our sommunity. Our planet. Luton Rising Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.ul London Luton Airport Expansion Development Consent Order Drawing Title Figure 7.16 Modelled Landing and Take-Off (LTO) sources - taxi in 25 in 2027 Do-Something (DS) scenario Purpose of issue Suitability S2 SUITABLE FOR INFORMATION Size A3 Drawn Checked Approved Scale Date SB CS 01/02/23 1:10,000 AB
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Legend

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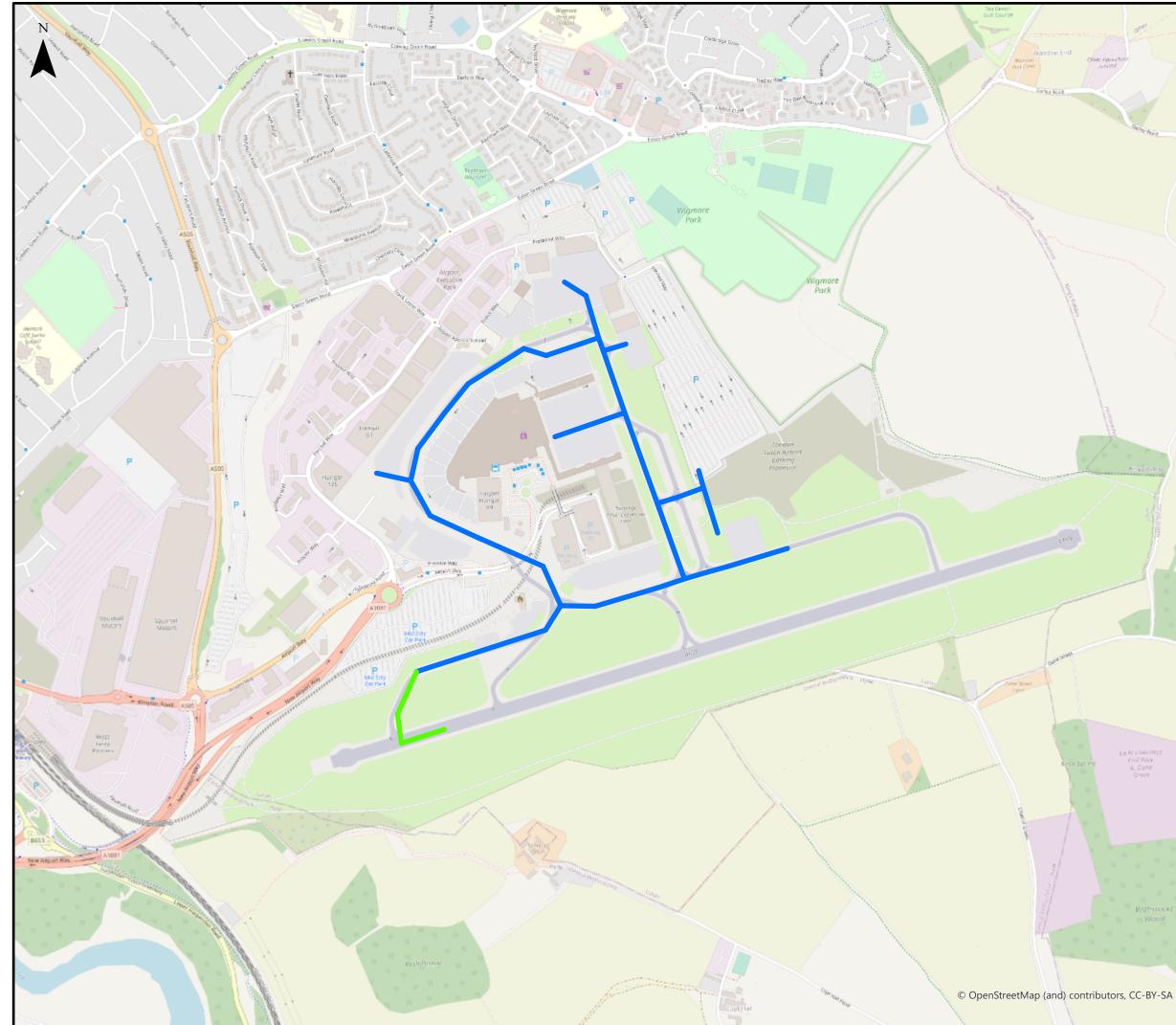
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25	Runway operating in the 250 degree bearing direction (westerly operational direction)

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Lut n Rising Our dirport. Our community. Our planet. Luton Rising Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.ul London Luton Airport Expansion Development Consent Order Drawing Title Figure 7.18 Modelled Landing and Take-Off (LTO) sources - taxi in 25 in 2043 Do-Something (DS) scenario Purpose of issue Suitability S2 SUITABLE FOR INFORMATION
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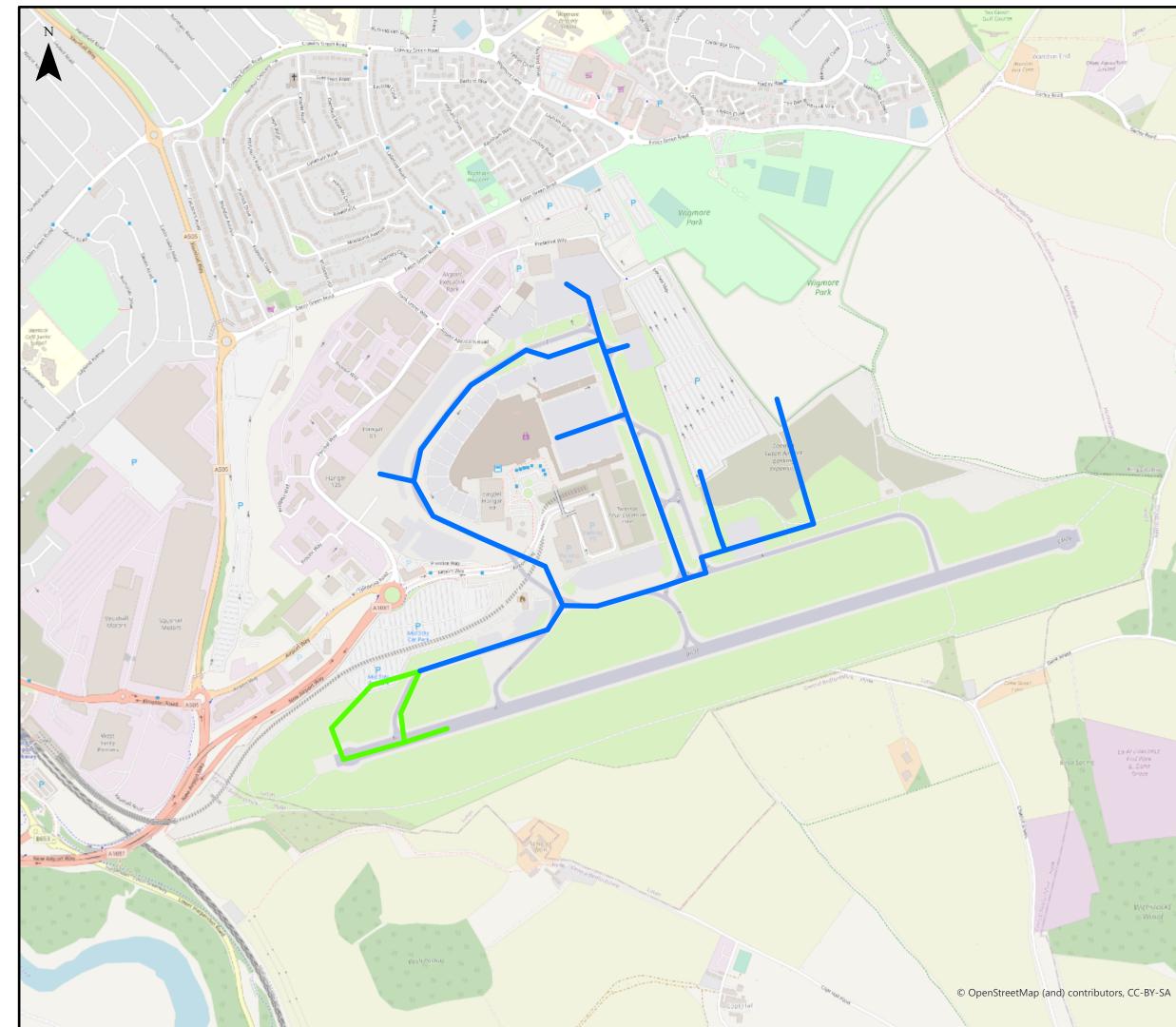


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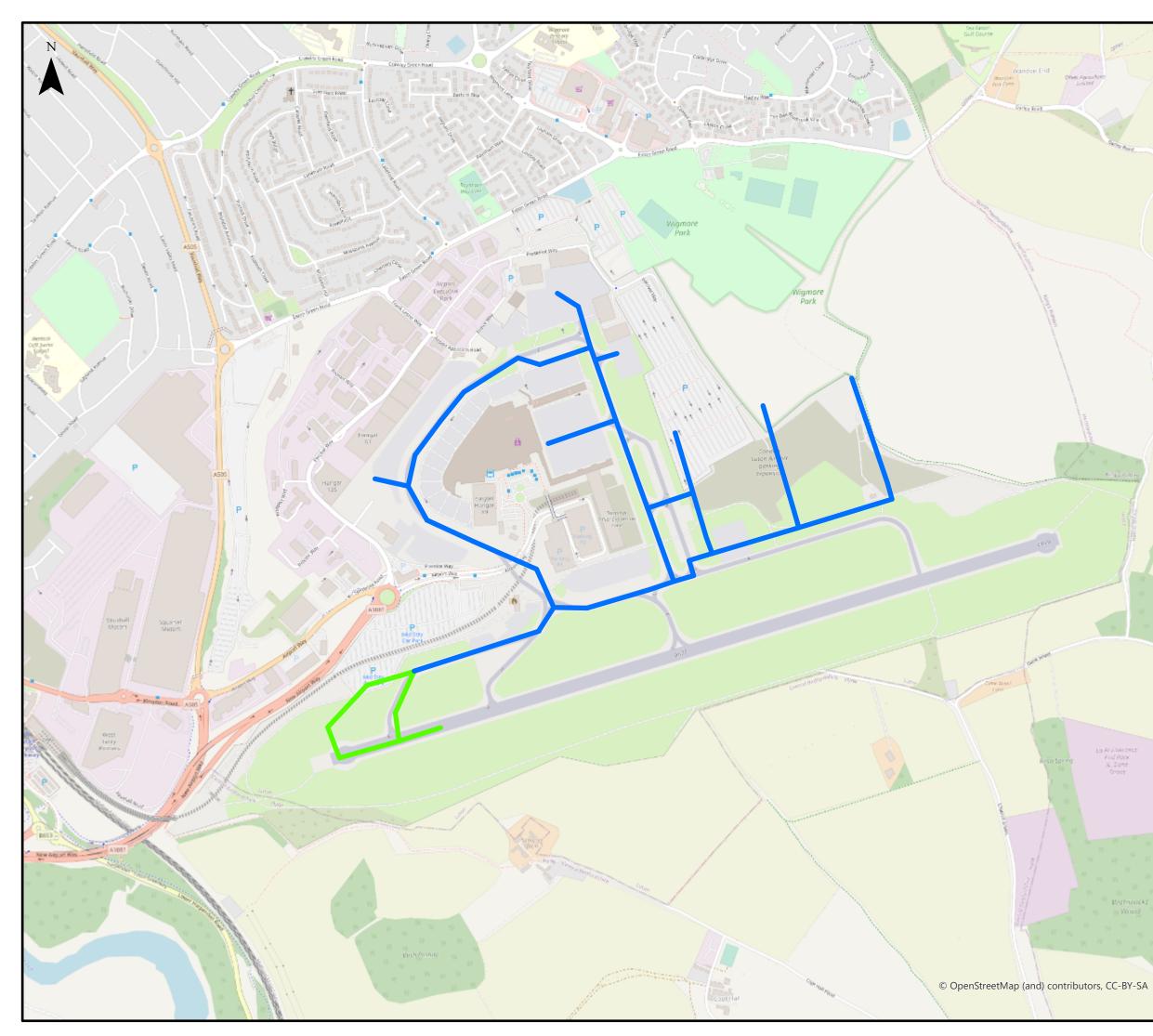
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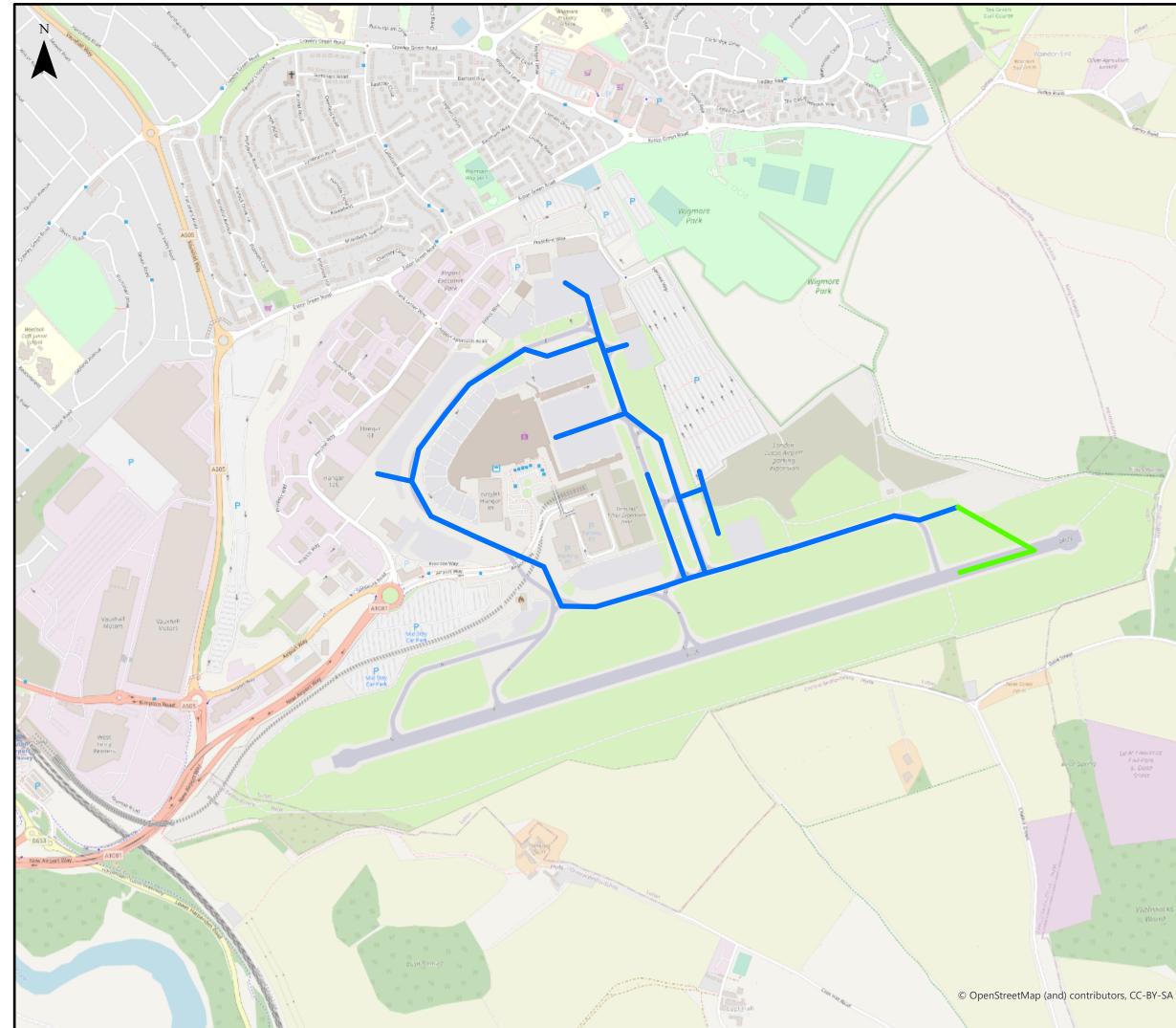
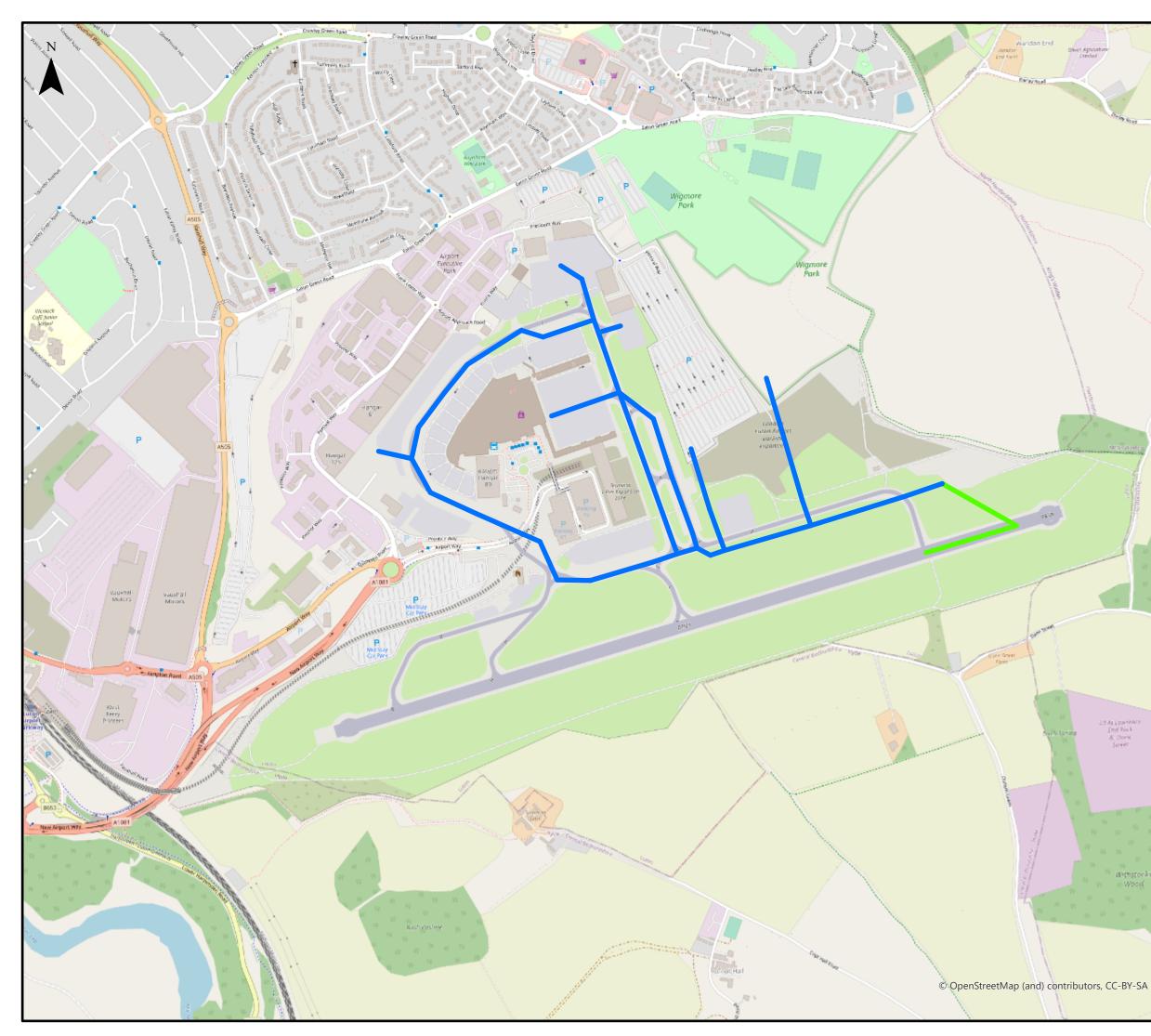
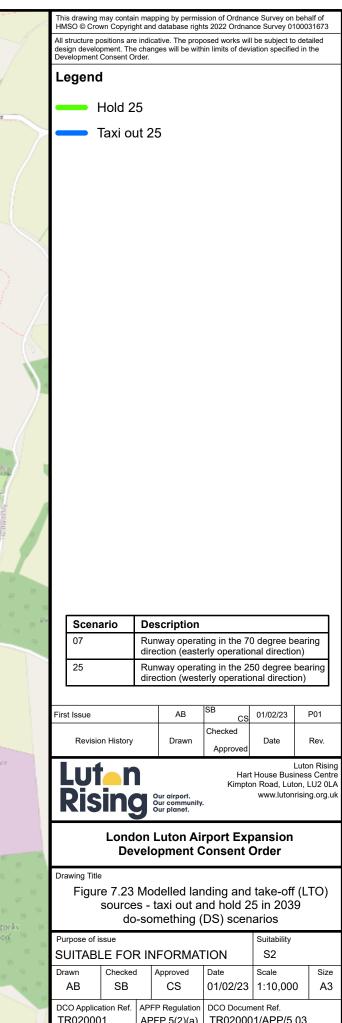




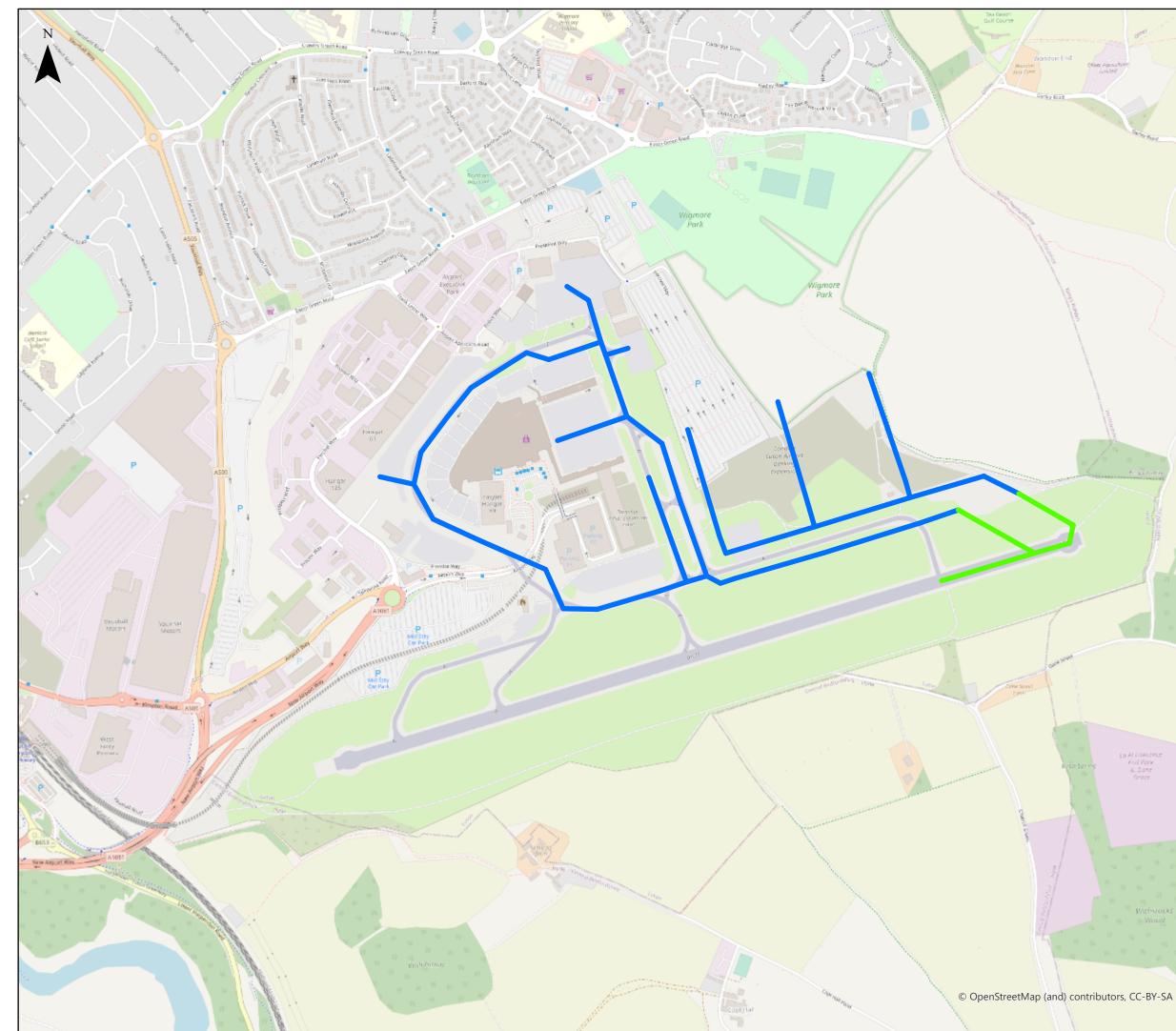
Figure 7.22 Modelled Landing and Take-Off (LTO) sources - taxi out and hold 25 in 2027 Do-Something (DS) scenario

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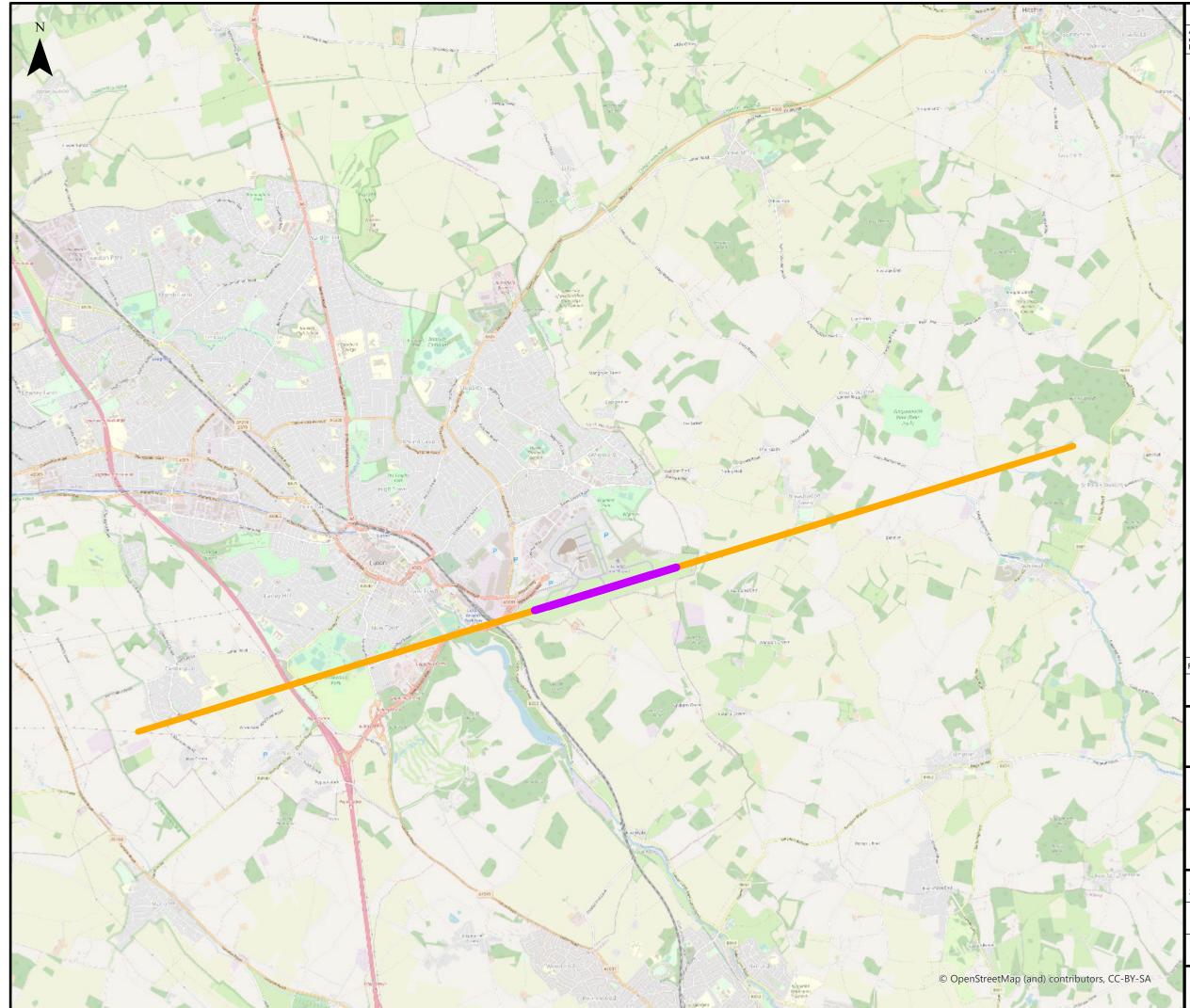


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Approved Luton Rising Our airport. Our community. Our planet. Luton Rising Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.ul London Luton Airport Expansion Development Consent Order Drawing Title Figure 7.24 Modelled Landing and Take-Off (LTO) sources -taxi out and hold 25 in 2043 Do-Something (DS) scenarios Purpose of issue Suitability S2 SUITABLE FOR INFORMATION
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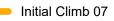
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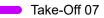
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Legend





Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

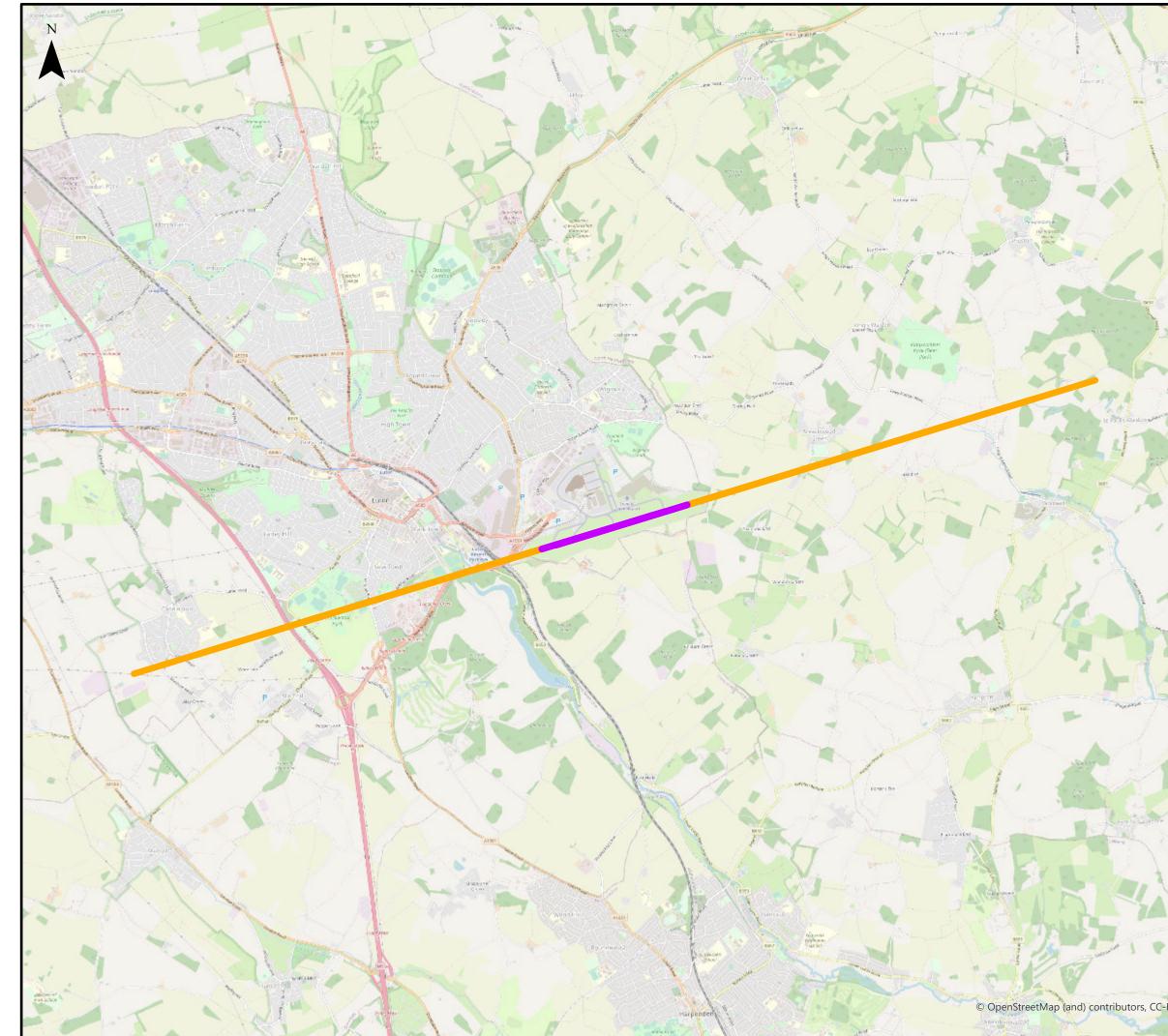
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London Luton Airport Expansion Development Consent Order

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Figure 7.25 Modelled Landing and Take-Off (LTO) sources - take off and initial climb 07

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