



AIRPORT
EXPANSION

*EIA
SCOPING
REPORT*

*VOLUME 2
FIGURES*

MAY 2018

Heathrow



Heathrow Expansion

EIA Scoping Report – Volume 2: Figures – Contents

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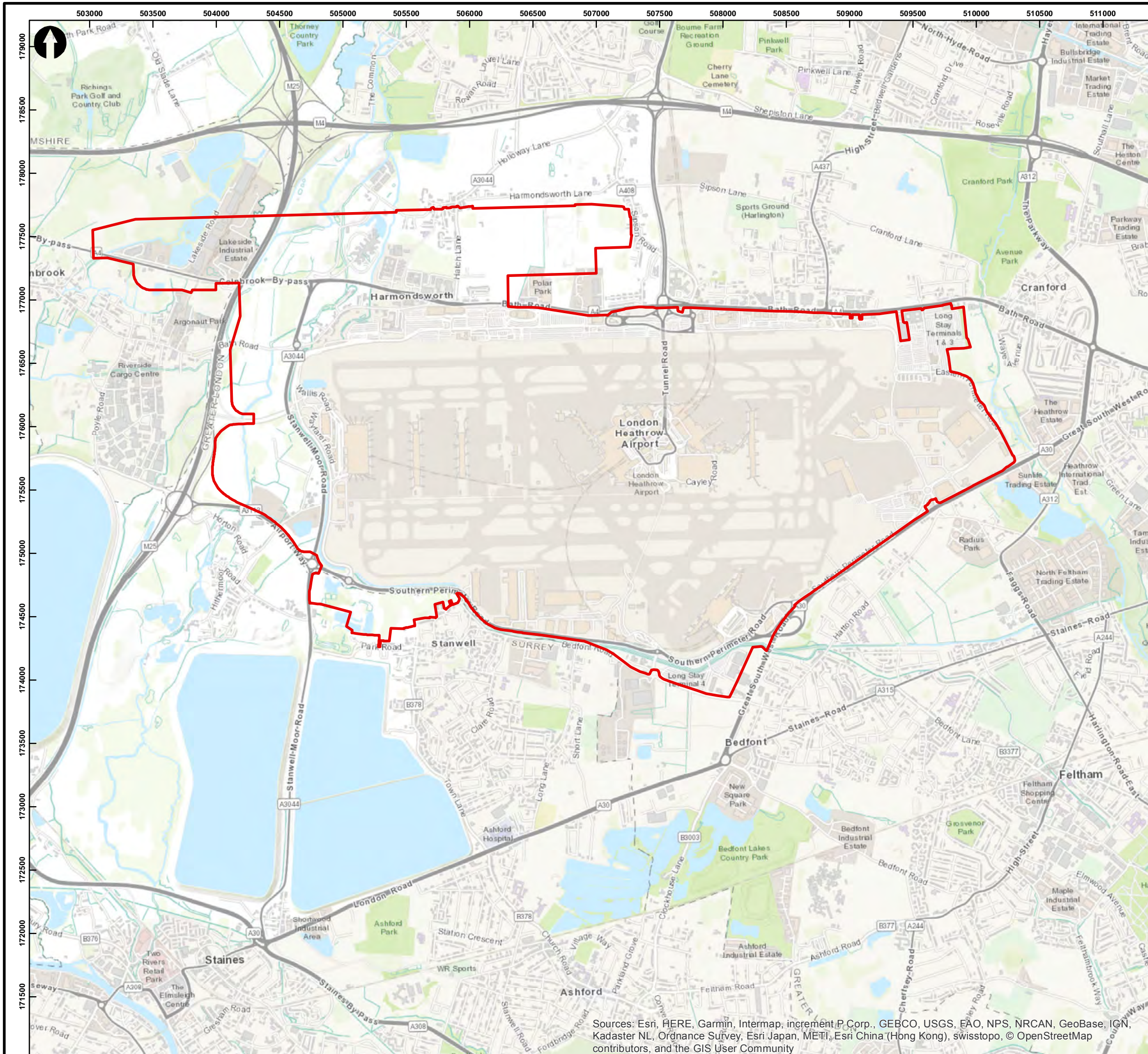
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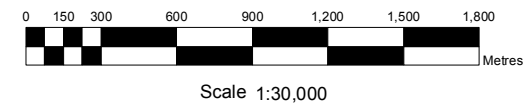
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 Illustrative Heathrow Northwest Runway scheme boundary



Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 1.1: Annex A of the revised draft ANPS

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000001				Version 1.0

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

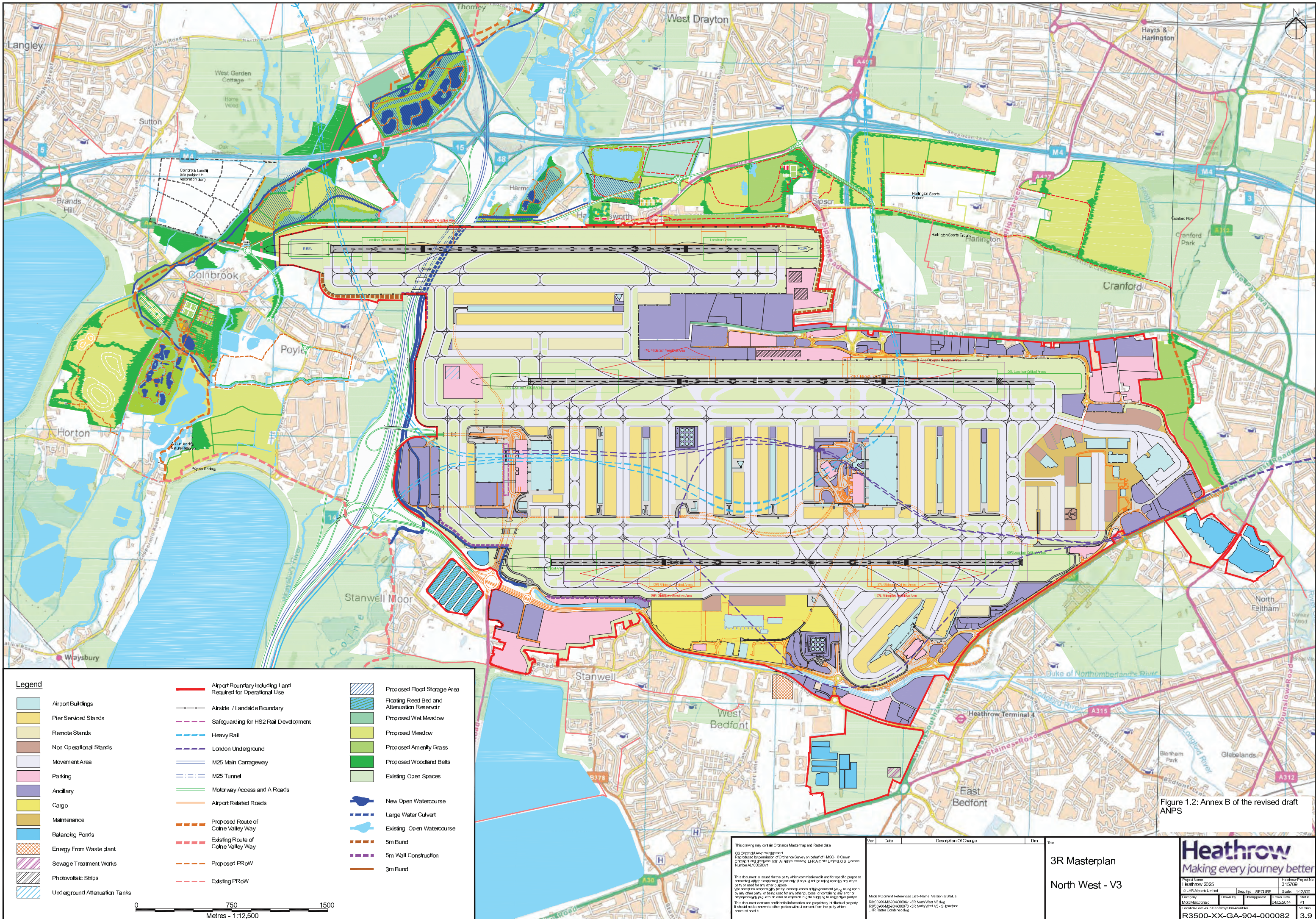


Figure 1.2: Annex B of the revised draft ANPS

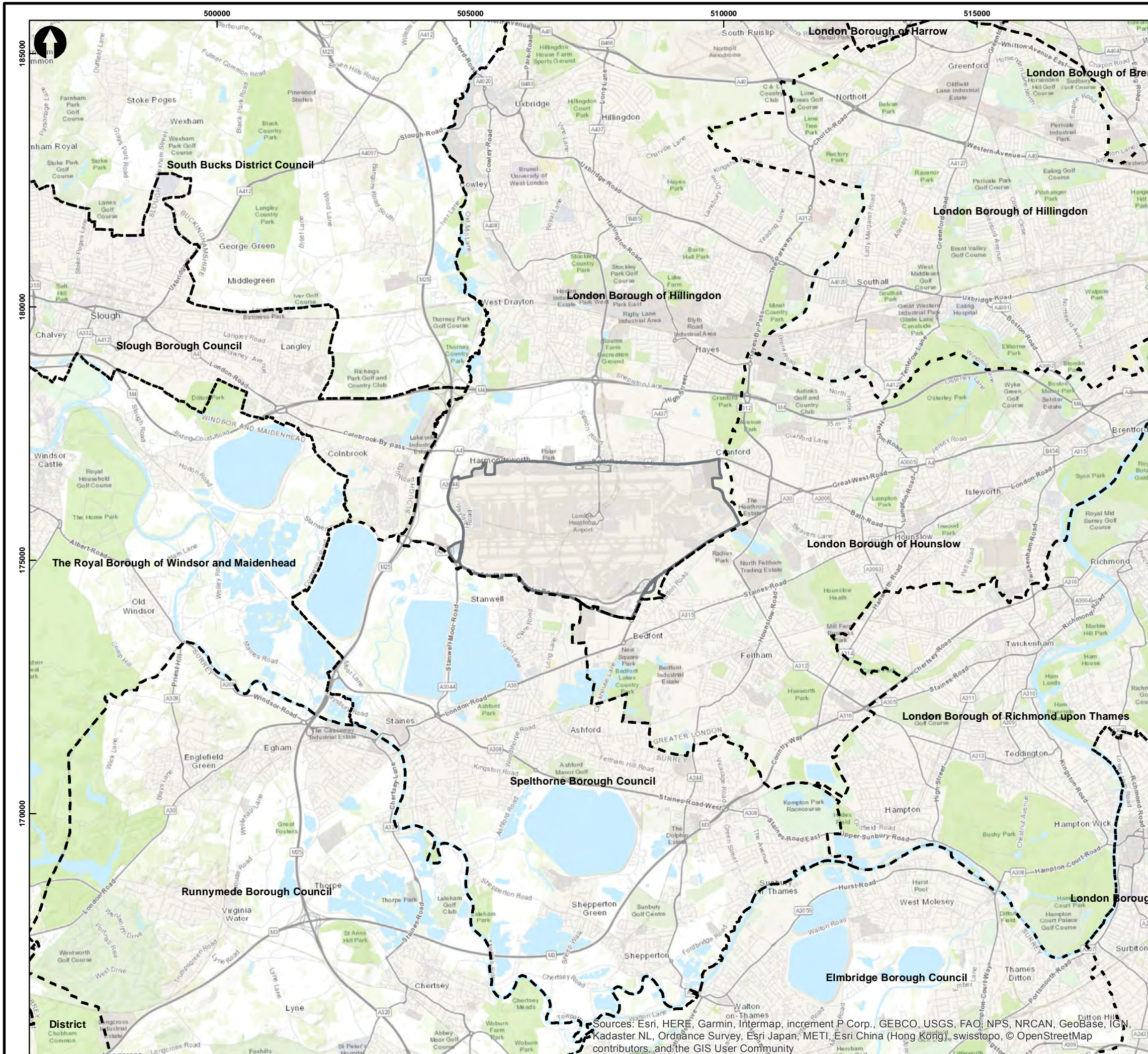
Legend

Airport Buildings	Airport Boundary including Land Required for Operational Use	Proposed Flood Storage Area
Pier Serviced Stands	Airside / Landside Boundary	Floating Reed Bed and Attenuation Reservoir
Remote Stands	Safeguarding for HS2 Rail Development	Proposed Wet Meadow
Non Operational Stands	Heavy Rail	Proposed Meadow
Movement Area	London Underground	Proposed Amenity Grass
Parking	M25 Main Carrageway	Proposed Woodland Belts
Ancillary	M25 Tunnel	Existing Open Spaces
Cargo	Motorway Access and A Roads	New Open Watercourse
Maintenance	Airport Related Roads	Large Water Culvert
Balancing Ponds	Proposed Route of Colne Valley Way	Existing Open Watercourse
Energy From Waste plant	Existing Route of Colne Valley Way	5m Bund
Sewage Treatment Works	Proposed PRoW	5m Wall Construction
Photovoltaic Strips	Existing PRoW	3m Bund
Underground Attenuation Tanks		



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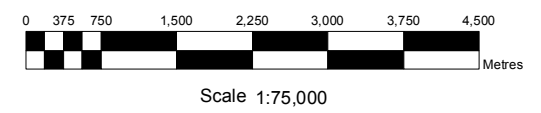
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<p>This document is issued for the party which commissioned it and for specific purposes connected with the captioned project only. It should not be relied upon by any other party or used for any other purpose. We accept no responsibility for the consequences of this document being used in any other way or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties. This document contains confidential information and proprietary intellectual property. It should not be shown to other parties without consent from the party which commissioned it.</p>		<table border="1"> <thead> <tr> <th>Model/Content Reference</th> <th>List-Name</th> <th>Version</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>R3500-XX-M2-80-000077</td> <td>3R North West V3.dwg</td> <td></td> <td></td> </tr> <tr> <td>R3500-XX-M2-80-000070</td> <td>3R North West V3 - @signature</td> <td></td> <td></td> </tr> <tr> <td></td> <td>LHR Raster Combined.dwg</td> <td></td> <td></td> </tr> </tbody> </table>	Model/Content Reference	List-Name	Version	Status	R3500-XX-M2-80-000077	3R North West V3.dwg			R3500-XX-M2-80-000070	3R North West V3 - @signature				LHR Raster Combined.dwg		
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<p>3R Masterplan North West - V3</p>		<p>Heathrow Making every journey better</p> <table border="1"> <thead> <tr> <th>Project Name</th> <th>Heathrow Project No</th> </tr> </thead> <tbody> <tr> <td>Heathrow 2025</td> <td>315769</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Company</th> <th>Drawn By</th> <th>Checked/Approved</th> <th>Drawn Date</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>LHR Airports Limited</td> <td></td> <td></td> <td>24/02/2014</td> <td></td> </tr> </tbody> </table> <p>R3500-XX-GA-904-000082 3.9</p>	Project Name	Heathrow Project No	Heathrow 2025	315769	Company	Drawn By	Checked/Approved	Drawn Date	Status	LHR Airports Limited			24/02/2014			
Project Name	Heathrow Project No																	
Heathrow 2025	315769																	
Company	Drawn By	Checked/Approved	Drawn Date	Status														
LHR Airports Limited			24/02/2014															

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 Heathrow Planning Boundary
 Local Planning Authority boundaries



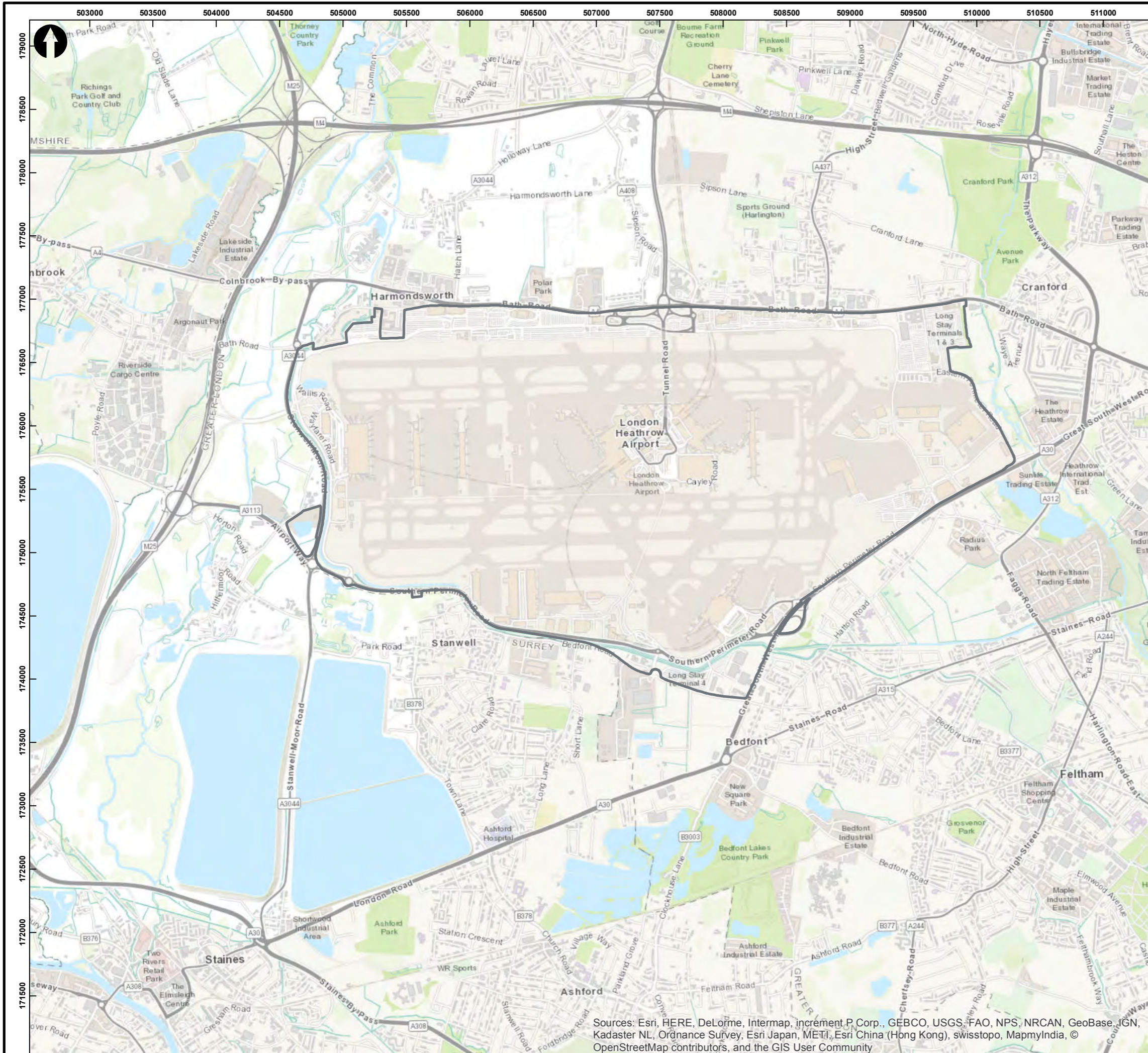
Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53


Title
 Figure 1.3: Local Planning Authority boundaries

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000003				Version 1.0

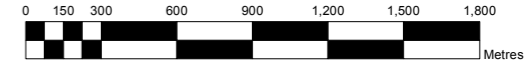
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 Heathrow Planning Boundary

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Title
 Figure 2.1: Heathrow Planning Boundary

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 21/05/2018	Status FINAL
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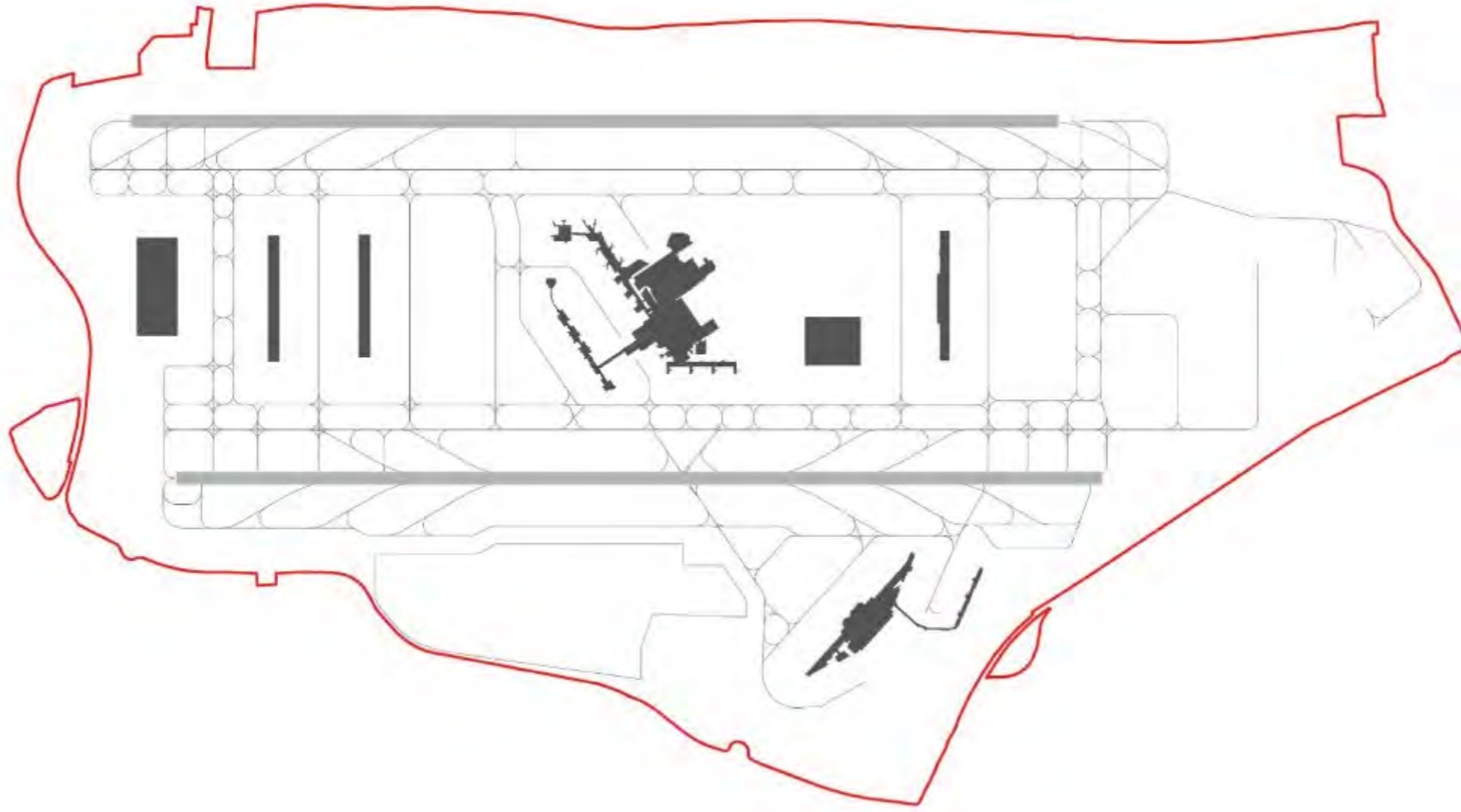
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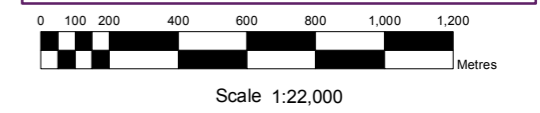


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- Heathrow Planning Boundary
- Runways
- Taxiways
- Existing terminals / satellites



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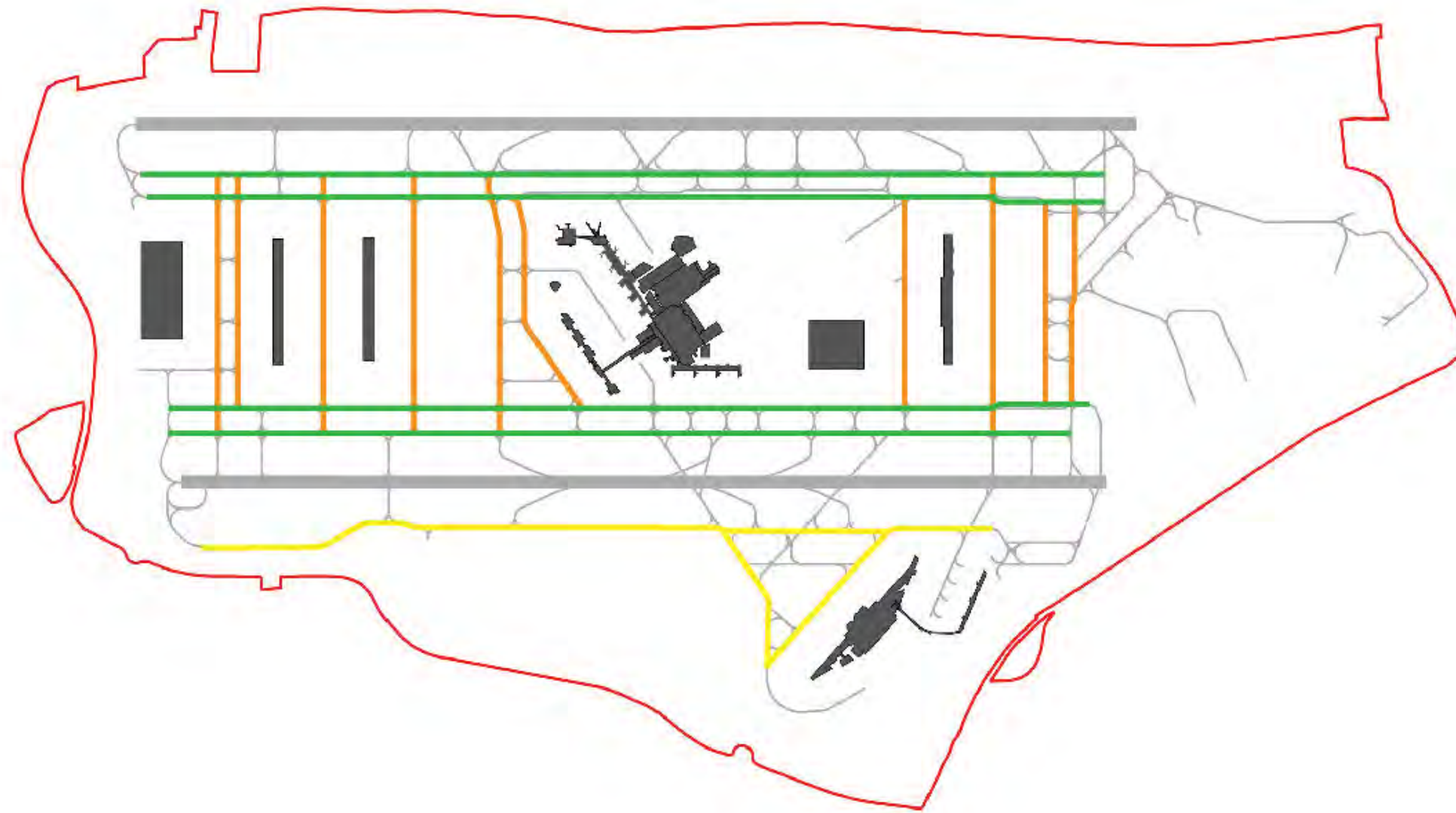


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Project Name Heathrow Expansion Project				Heathrow Project No. HEP53
Title Figure 2.2: Location of existing terminals				
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000005				Version 1.0



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- Heathrow Planning Boundary
- Runways
- Existing terminals / satellites
- Taxiways parallel to existing runways
- Cross-field taxiways
- Southern taxiways for T4 and cargo access

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Title
Figure 2.3: Existing taxiway system

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- Heathrow Planning Boundary
- Runways
- Taxiways
- Airport operations
- Maintenance
- Car parking
- Cargo
- Industrial
- Balancing Ponds

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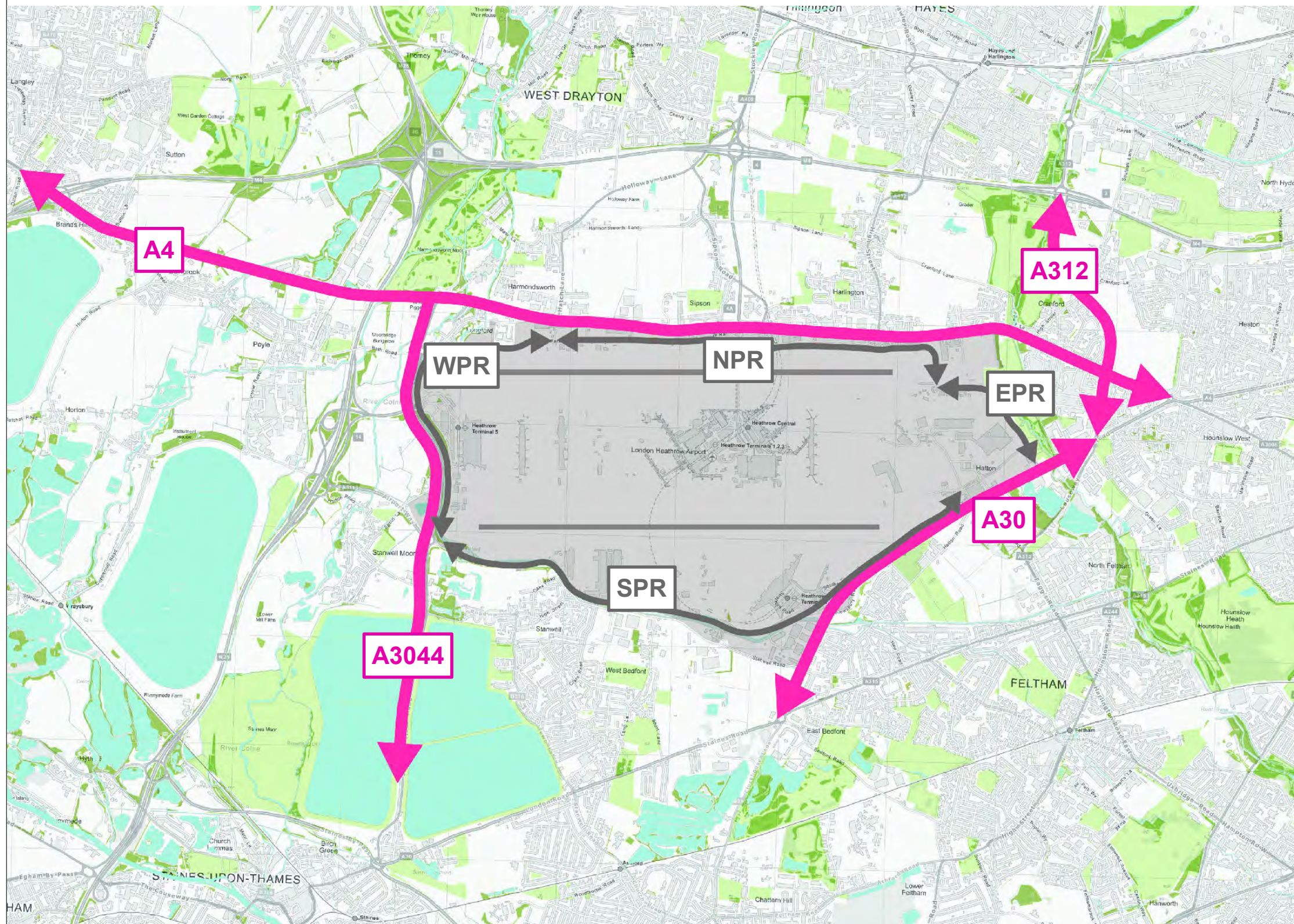
Title
Figure 2.4: Ancillary facilities at Heathrow




Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 10/05/2018	Status FINAL
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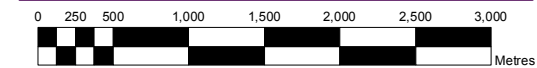
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-  Heathrow Planning Boundary
-  Existing perimeter roads
-  Existing local roads

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 2.5: Existing road access

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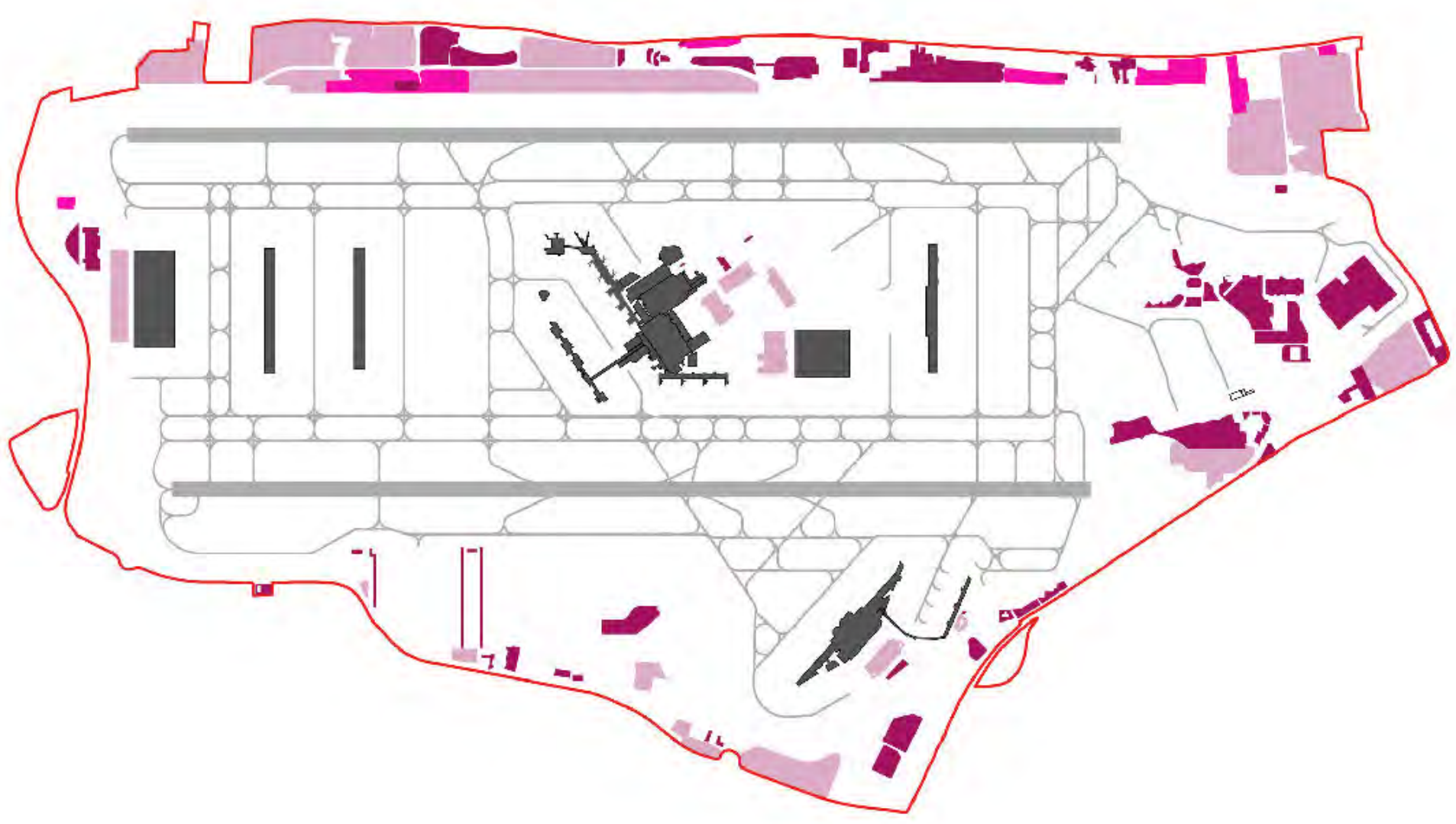
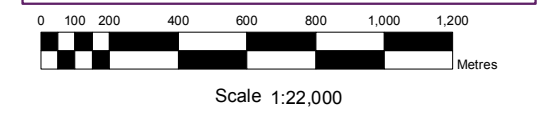
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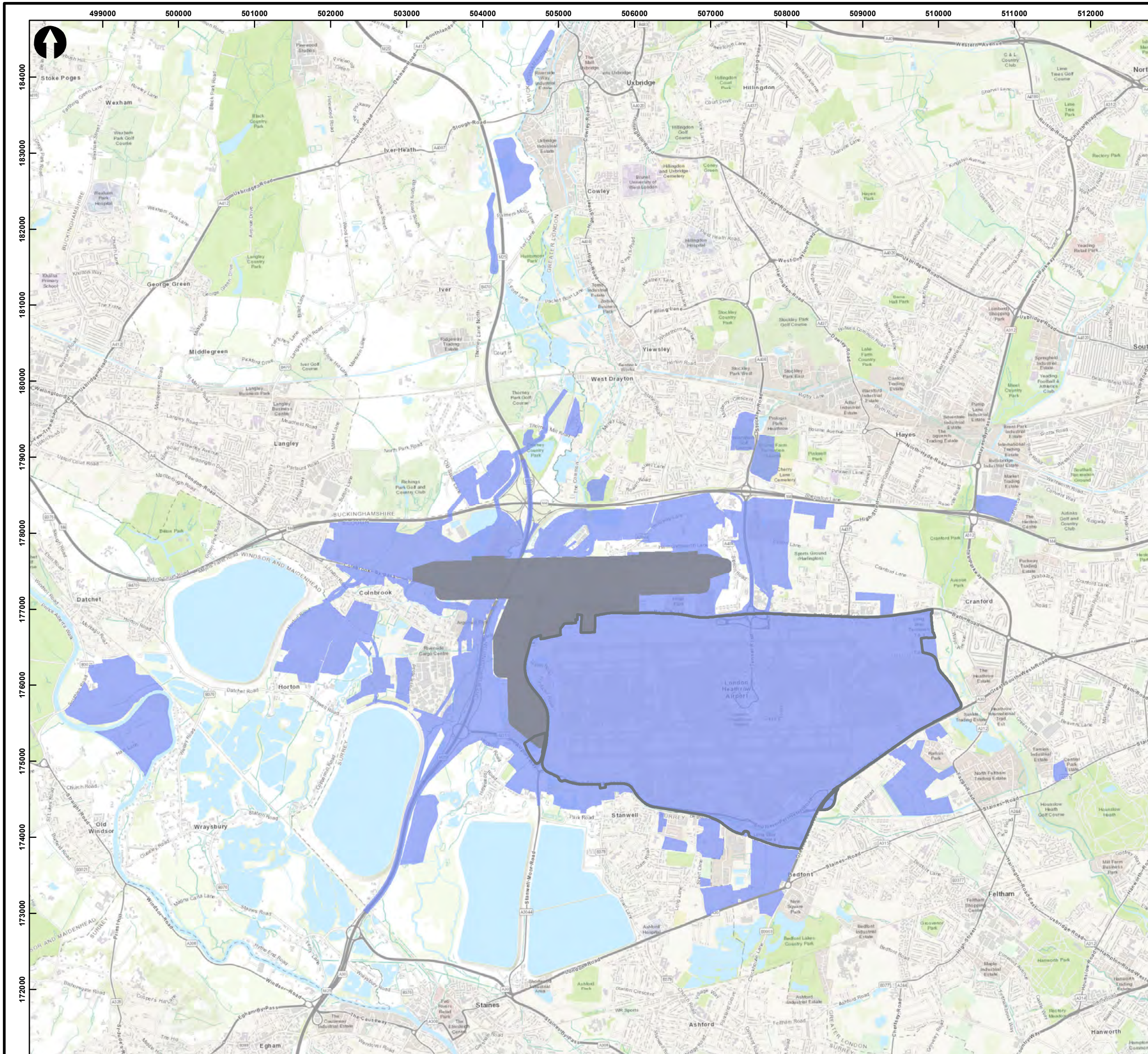
- Heathrow Planning Boundary
- Runways
- Taxiways
- Existing terminals / satellites
- HAL controlled parking
- Tenanted parking
- Other parking

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Title Figure 2.6: Existing car park facilities				
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000009				Version 1.0

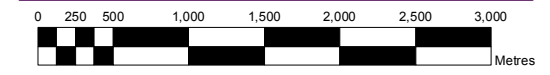


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-  Heathrow Planning Boundary
-  Land being considered for the expanded airfield
-  Land being considered for infrastructure works (roads, rivers, water drainage and treatment); airport supporting facilities; airport related development; and construction sites

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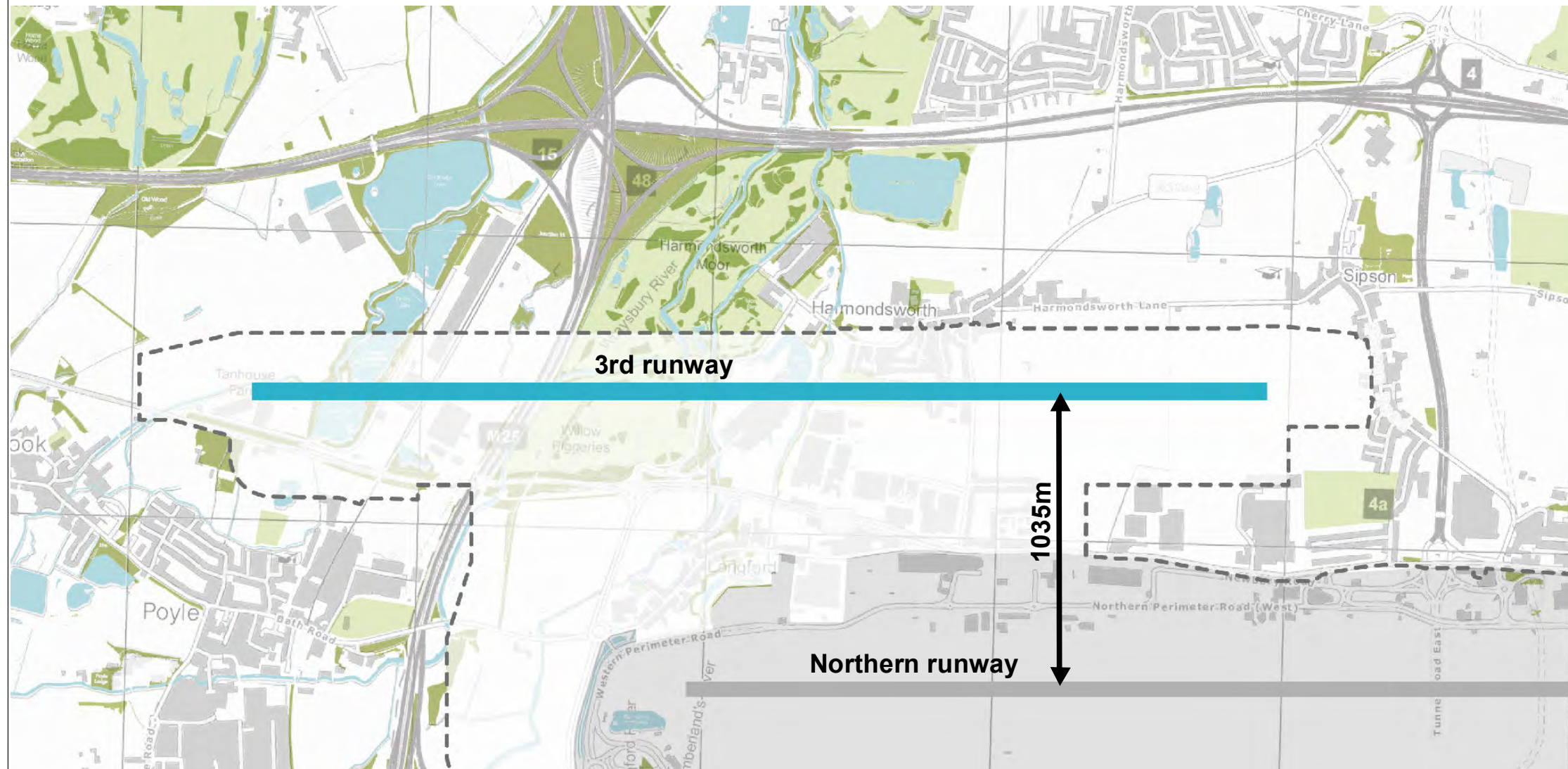
© Heathrow Airport Limited		Scale 1:50,000		
Project Name Heathrow Expansion Project		Heathrow Project No. HEP53		
Title Figure 3.1: Location plan				
Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000010				Version 1.0



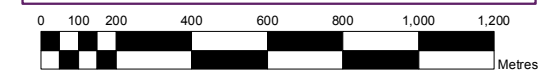
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 Illustrative Airport Expansion Boundary AC V4.9



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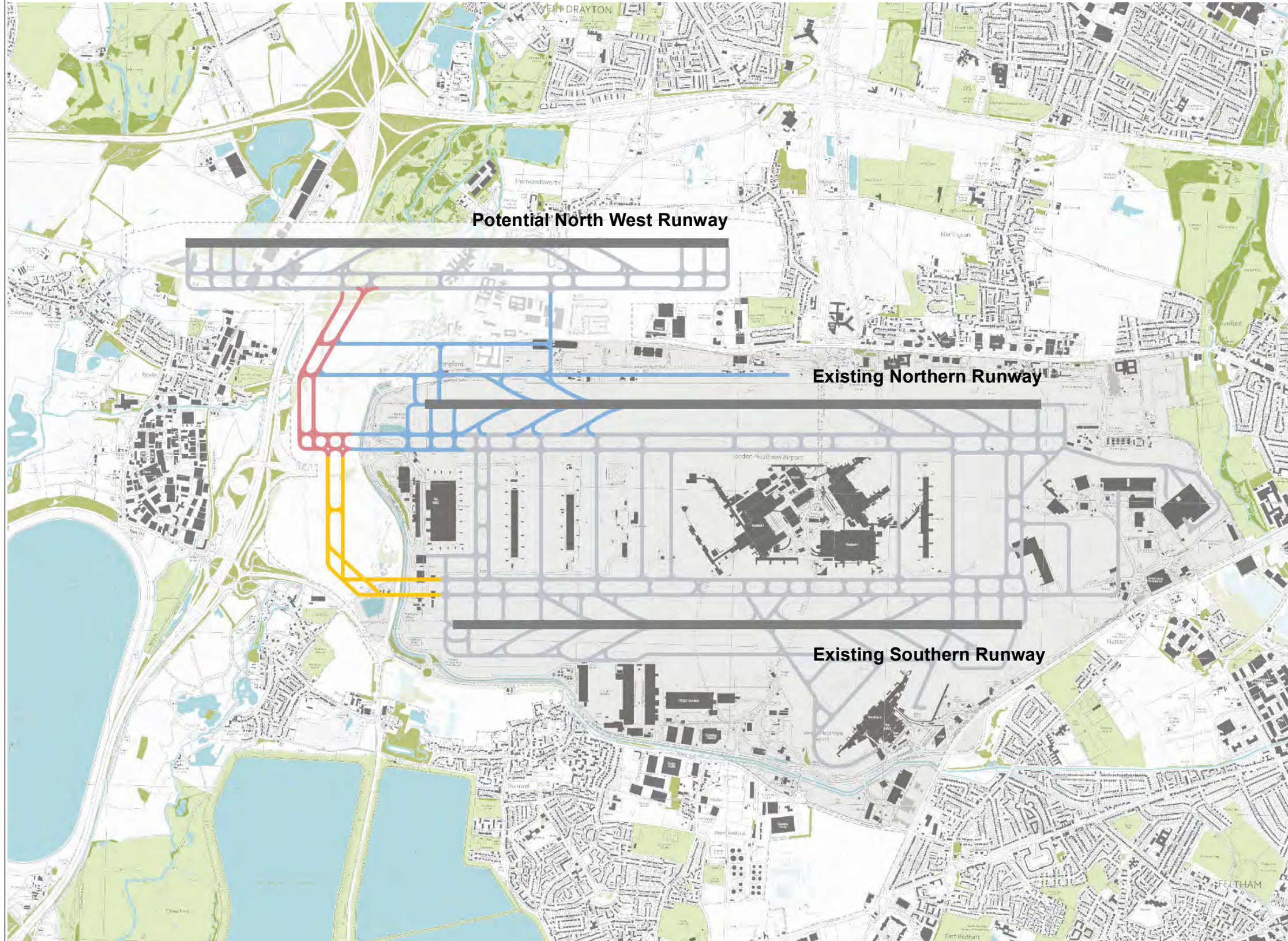
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 3.2: Indicative potential location of new runway

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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000011				Version 1.0

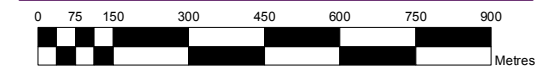


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- Illustrative Airport Expansion Boundary AC V4.9
- Potential layout of taxiways west of Terminal 5
- Potential layout of Around The End Taxiways (ATETs)
- Potential layout of taxiways north and south of Existing Northern Runway

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Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 3.3: Potential location of ATETs at the western end of the existing northern runway

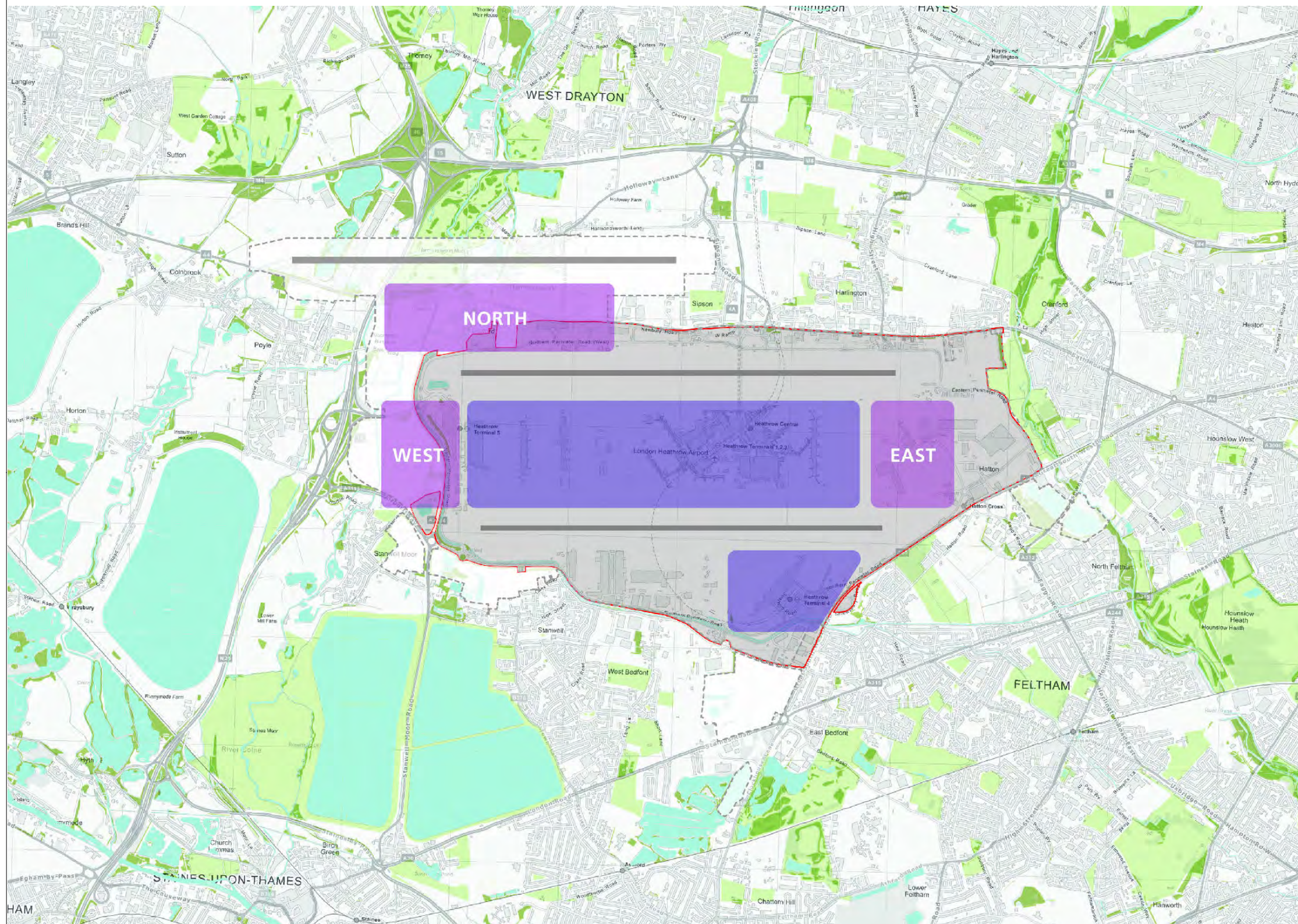
Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 11/05/2018	Status FINAL
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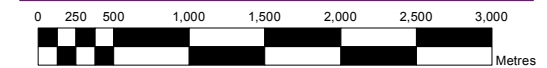
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-  Heathrow Planning Boundary
-  Illustrative Airport Expansion Boundary AC V4.9
-  Runways
-  Existing terminals / satellites (potential optimisation)
-  Potential terminals / satellites expansion

Note: The information presented in this figure is based upon the information shown in the Consultation 1 document "Our Emerging Plans". Please note that, since the time of publication of "Our Emerging Plans", some terminology may have changed from that originally used.



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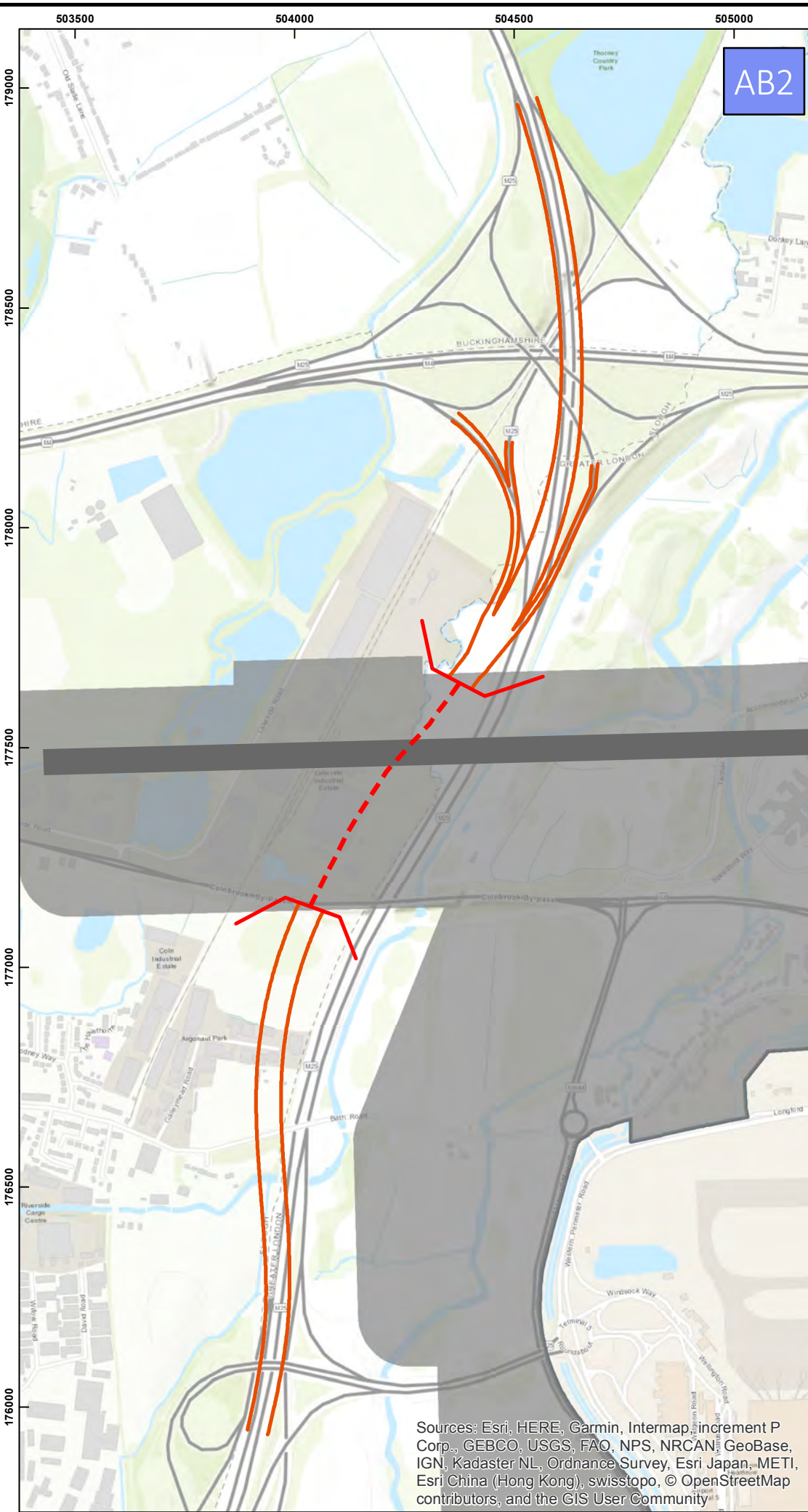
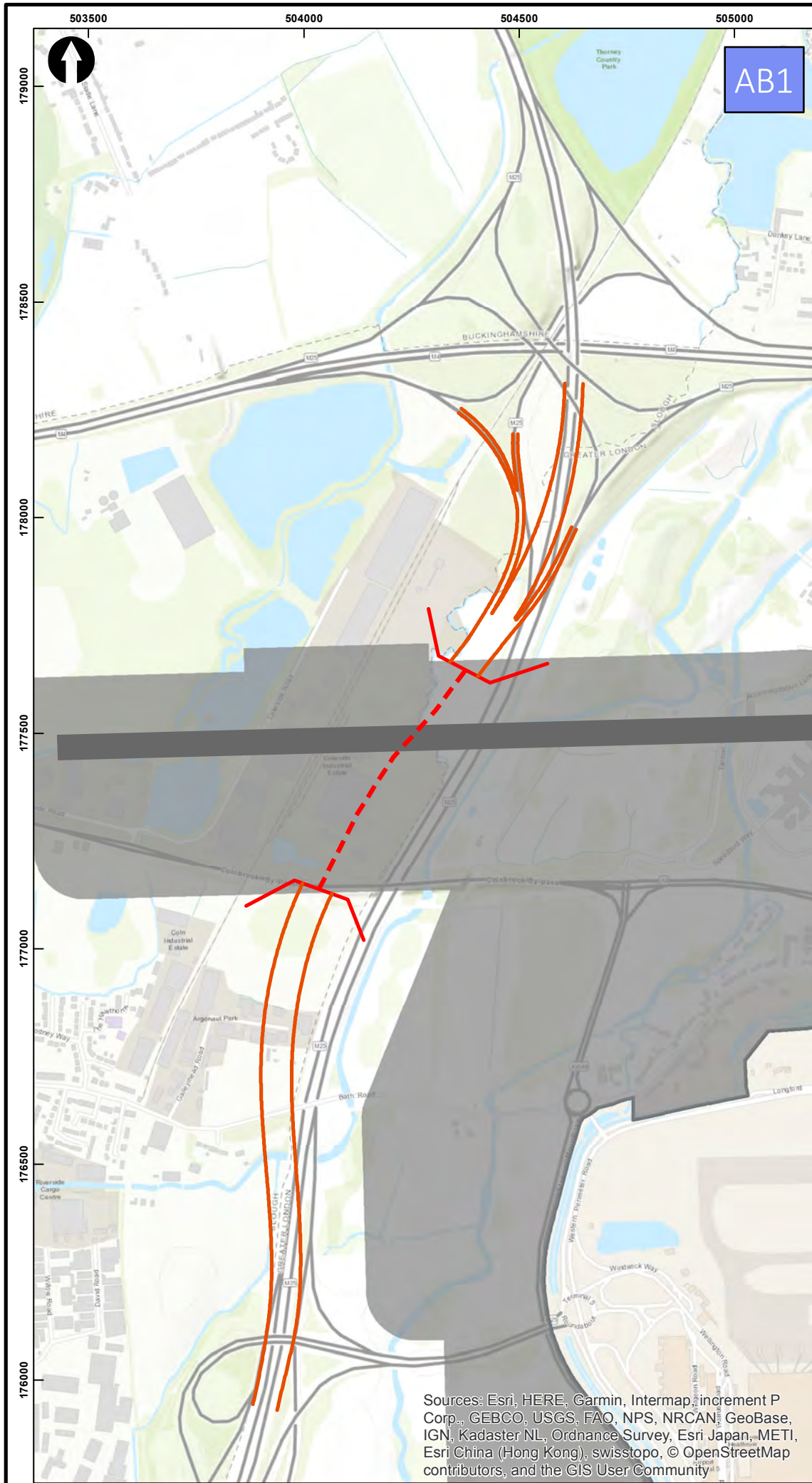
Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53






Title
Figure 3.4: Locations under consideration for additional terminals, satellites and aprons

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 11/05/2018	Status FINAL
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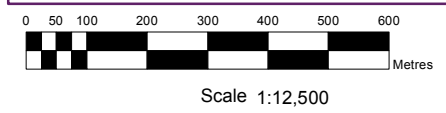
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000013	Version 1.0
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-  Heathrow Planning Boundary
-  Potential M25 alignment
-  Potential M25 underpass
-  Land being considered for the expanded airfield
-  Runway

Note: The information presented in this figure is based upon the information shown in the Consultation 1 document "Our Emerging Plans". Please note that, since the time of publication of "Our Emerging Plans", some terminology may have changed from that originally used.



Heathrow

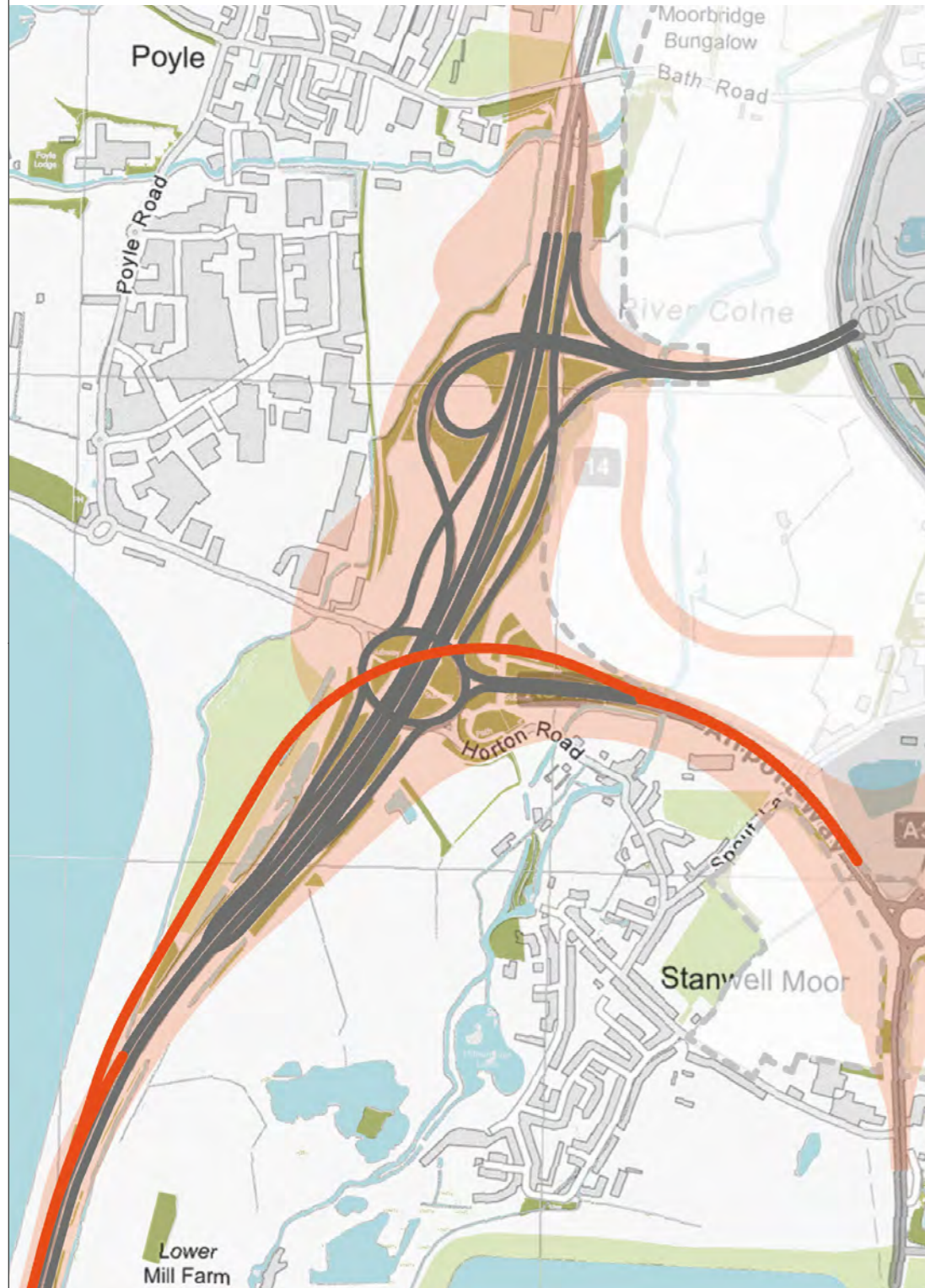
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 3.5: Potential layout of M25 options

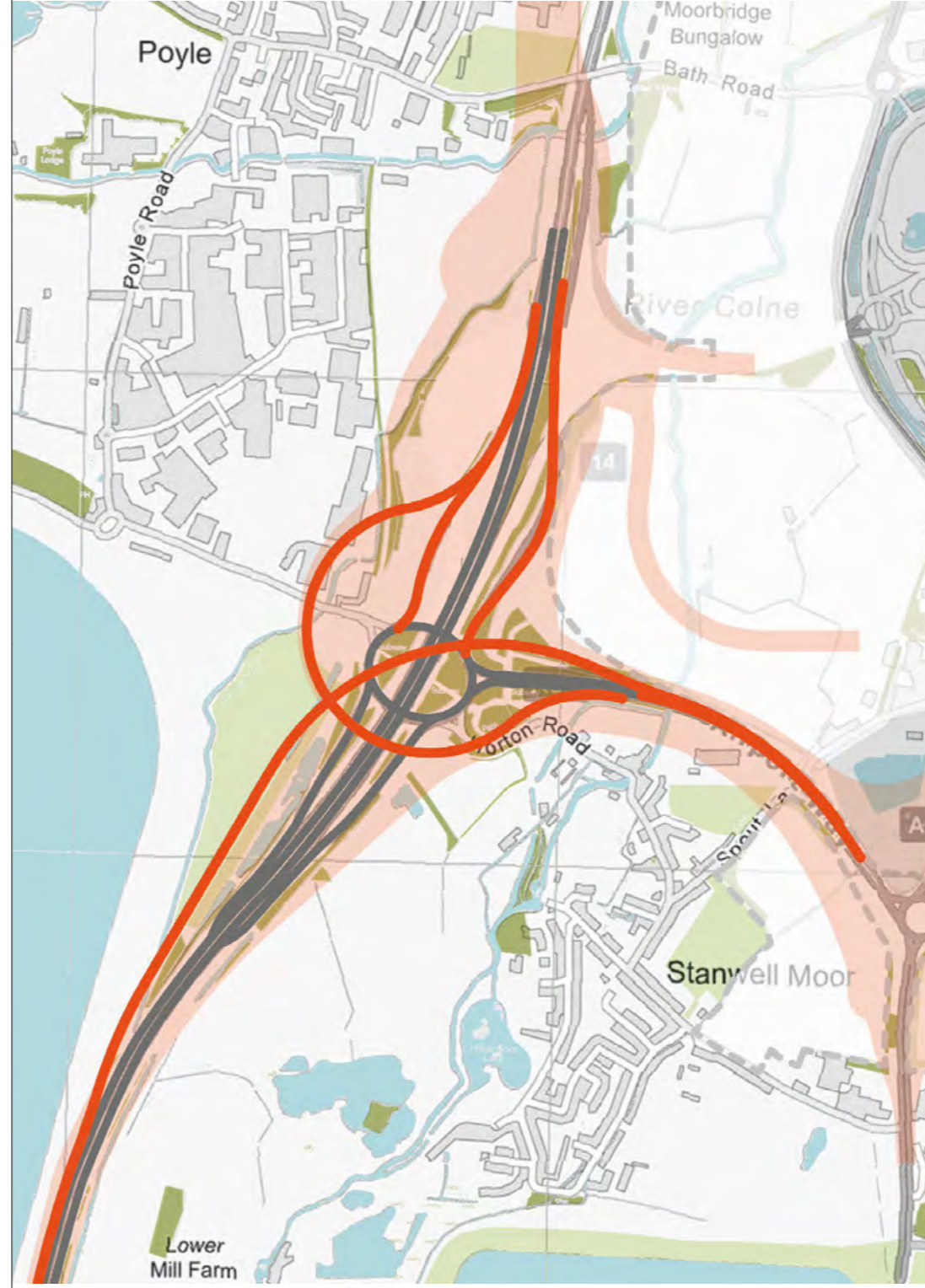
Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 11/05/2018	Status FINAL
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JA2



JC2



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- Potential M25 junction
- Area potentially affected by junction options under consideration

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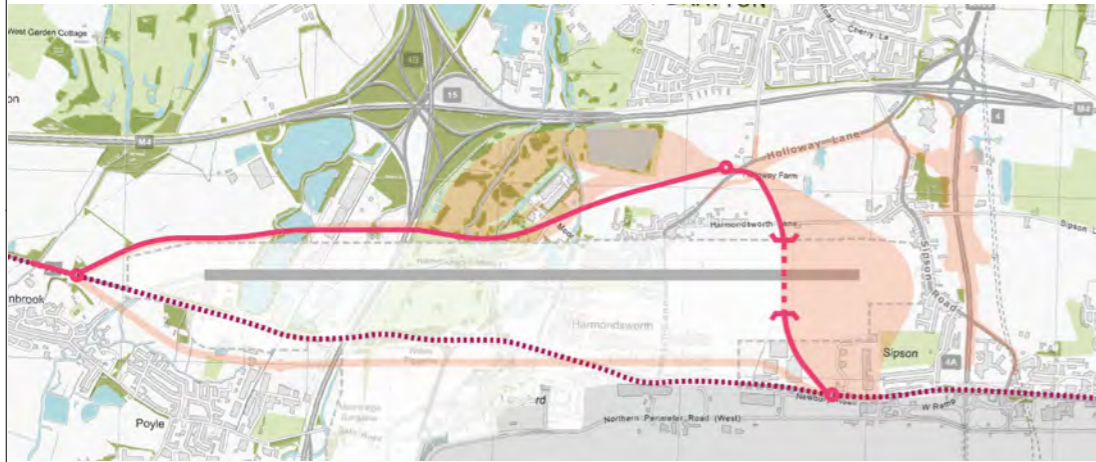
Title
Figure 3.6: Options for M25 J14 and 14a

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 14/05/2018	Status FINAL
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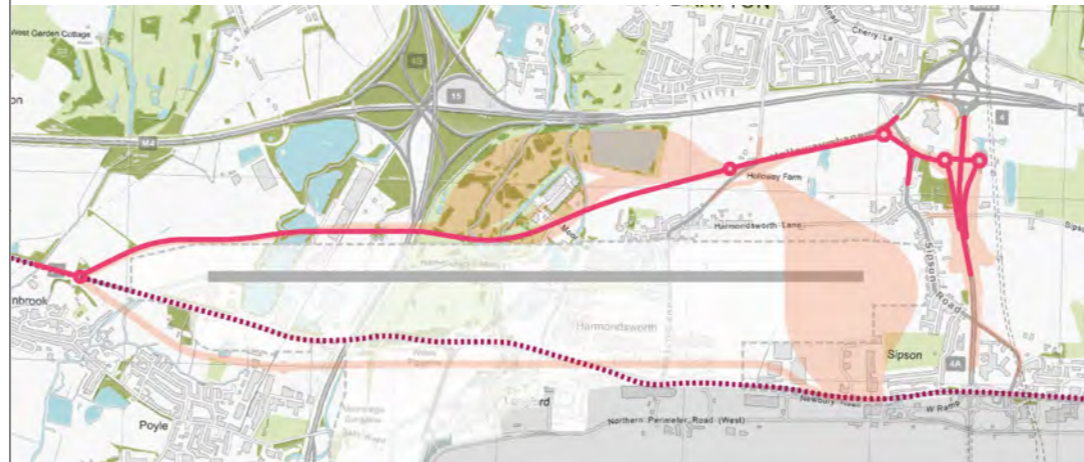
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2E



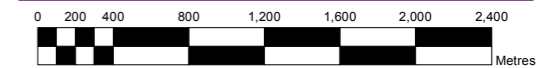
3A



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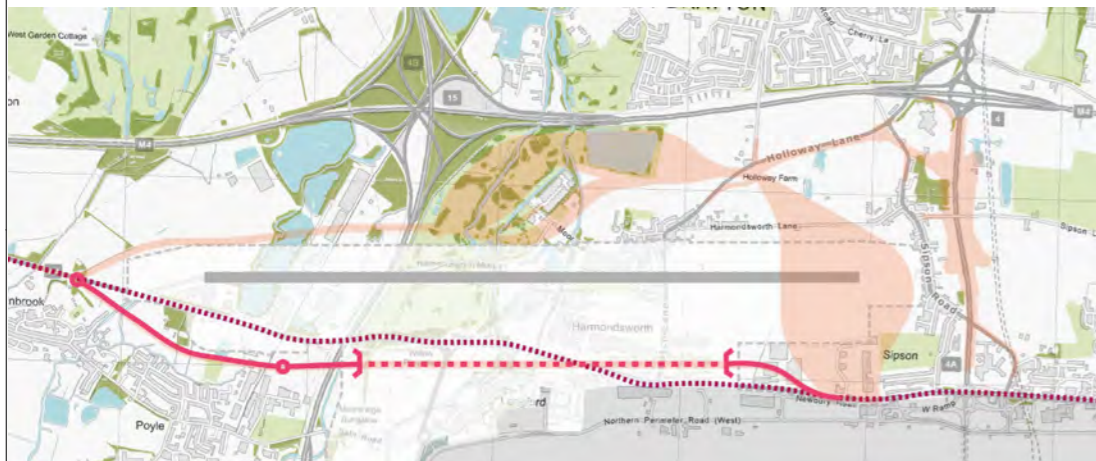
- Potential A4 alignment
- - - Potential A4 in cutting or underpass
- · · Existing A4 alignment
- Area potentially affected by road options under consideration
- Runway

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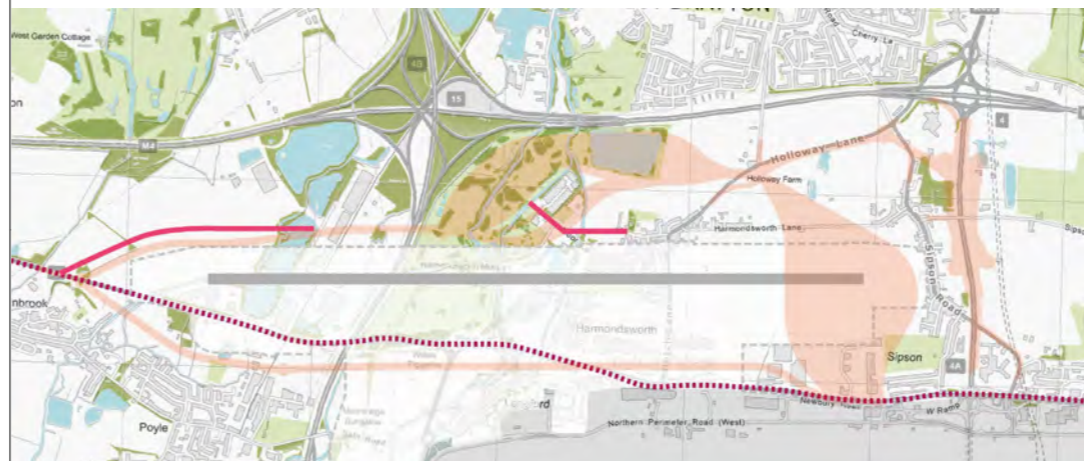


Scale 1:40,000

6C



DM



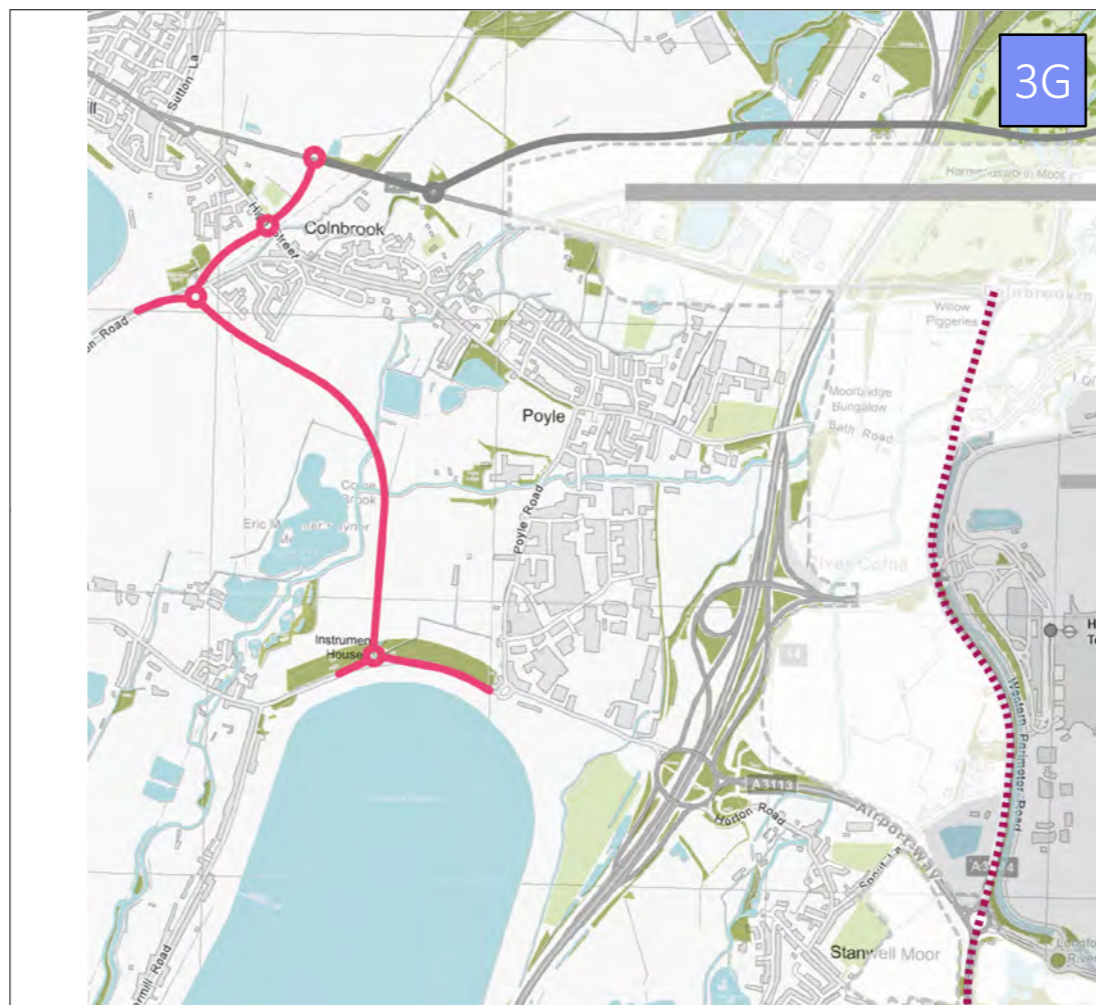
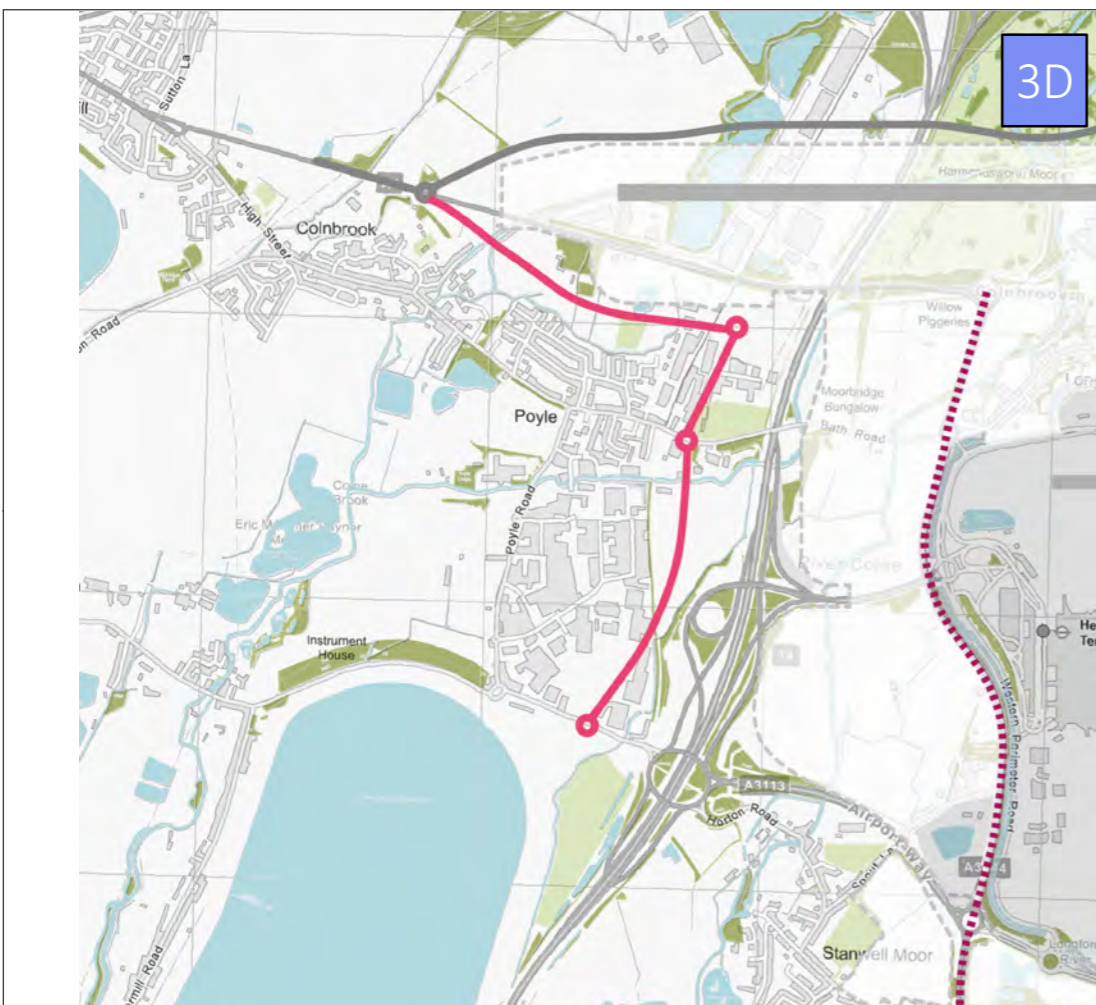
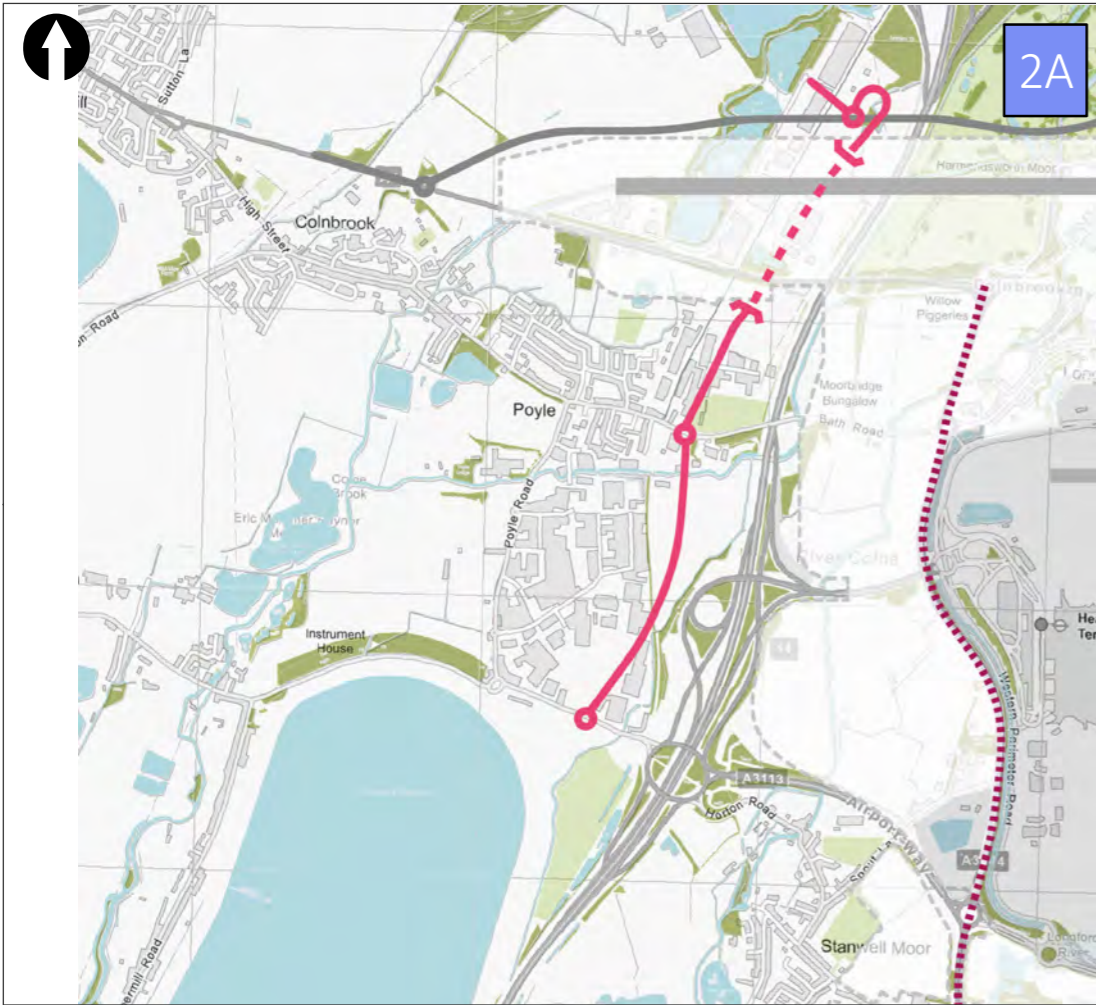
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Title
Figure 3.7: Shortlisted options for the replacement of the A4

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 14/05/2018	Status FINAL
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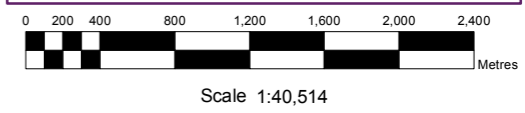
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- Potential A3044 alignment
- - - Potential A3044 underpass
- Potential A4 alignment
- - - Potential A4 underpass
- · - · - Existing A3044 alignment
- Runway

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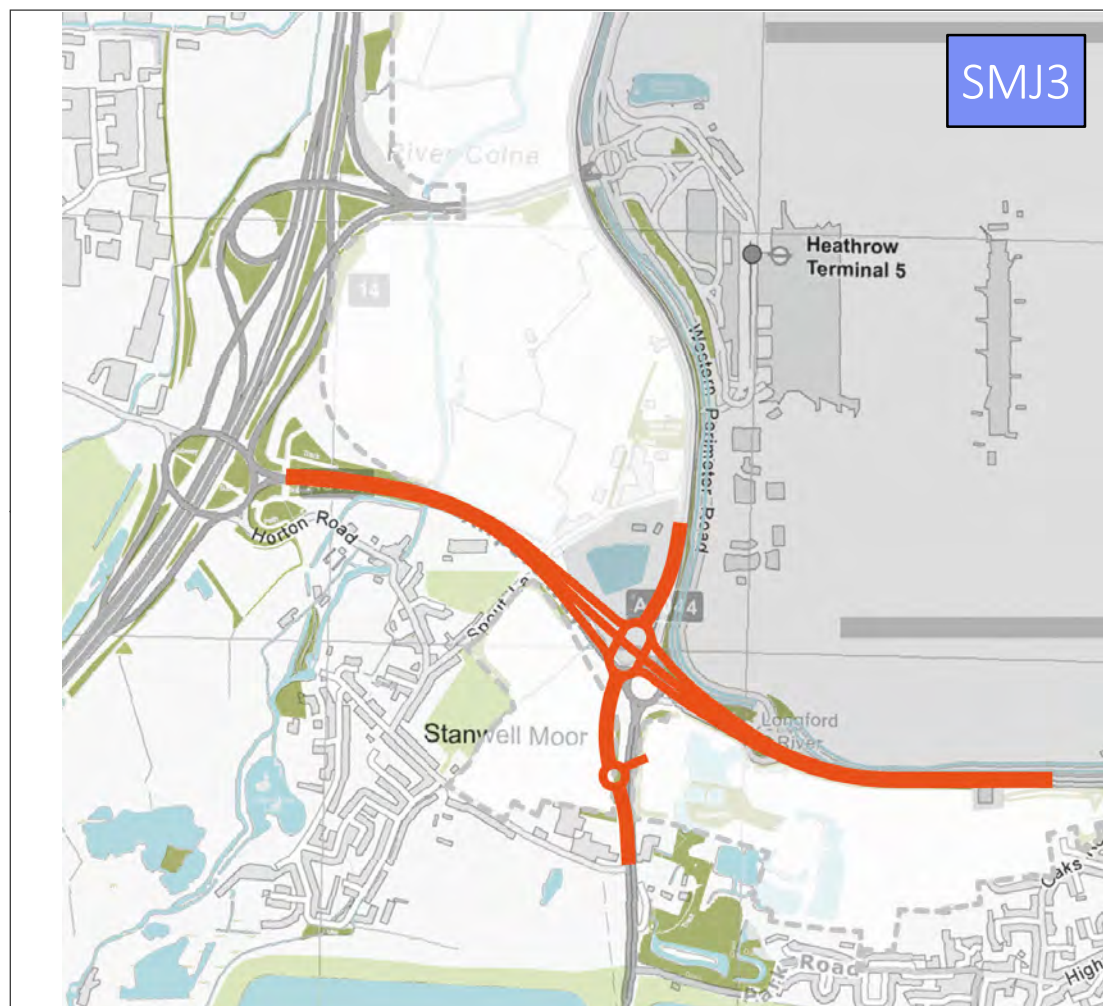
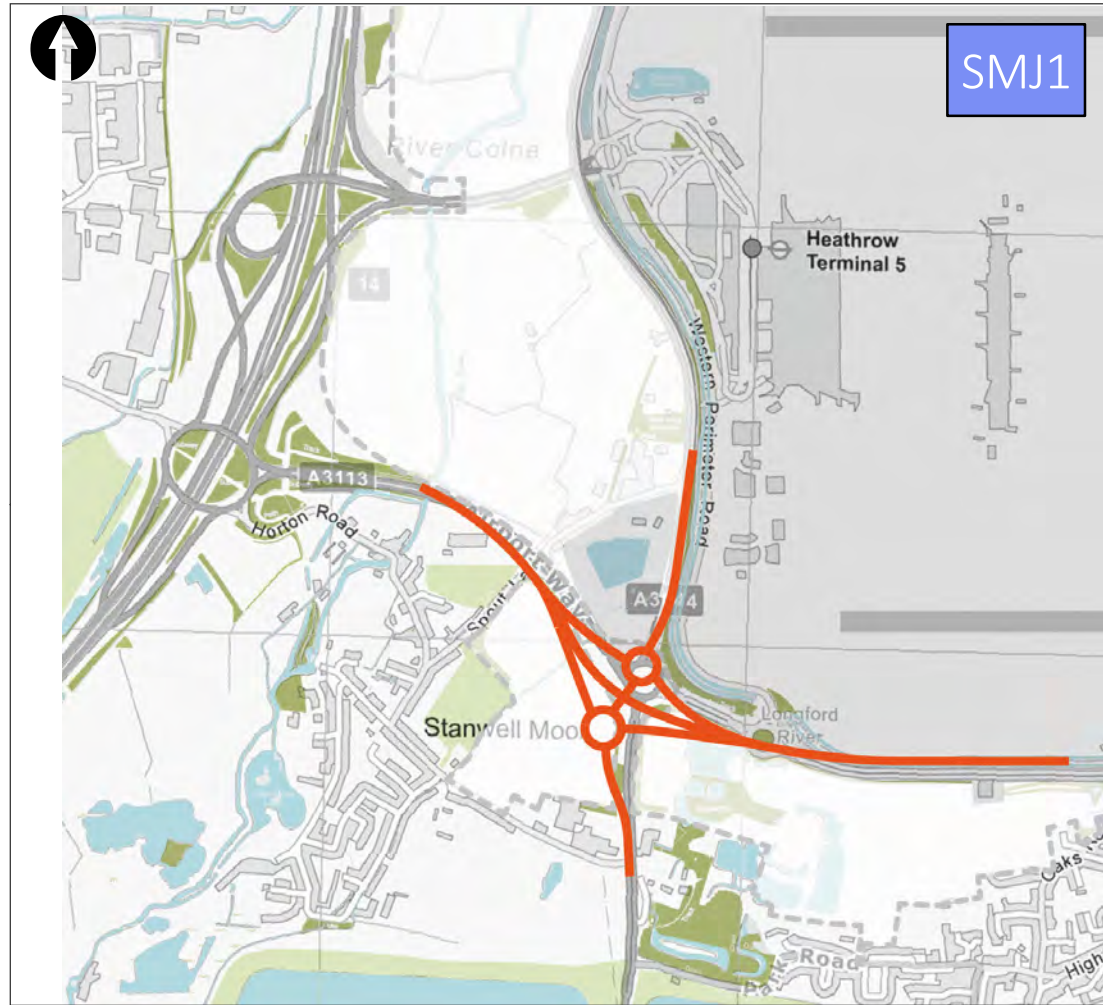


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Title
 Figure 3.8: Shortlisted options for replacement of the A3044

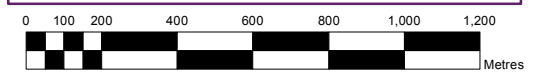
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000017				Version 1.0



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— Potential Stanwell Moor Junction alignment

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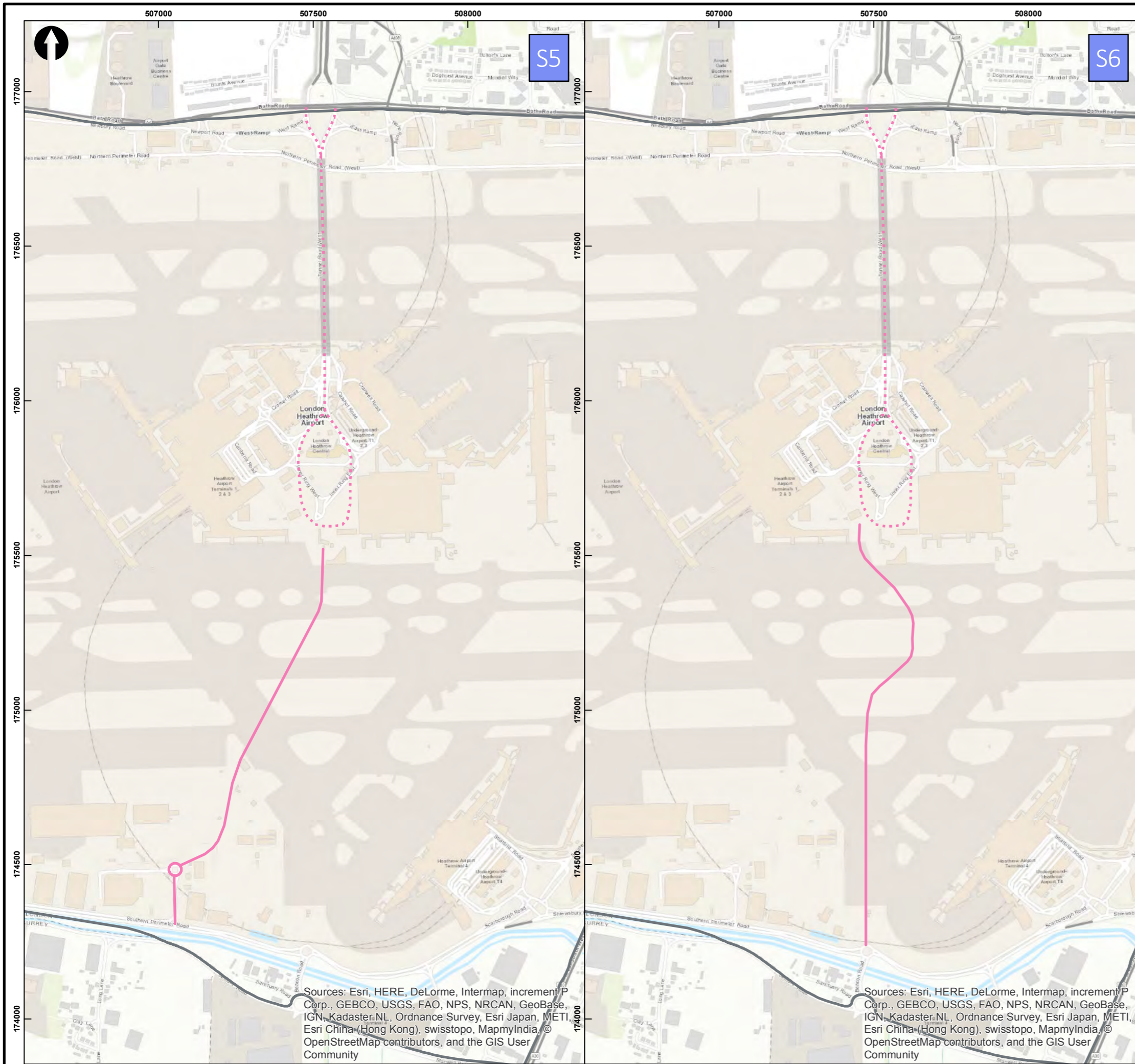
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Title
Figure 3.9: Stanwell Moor junction options

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-  Heathrow Planning Boundary
-  Existing CTA access
-  Potential CTA access

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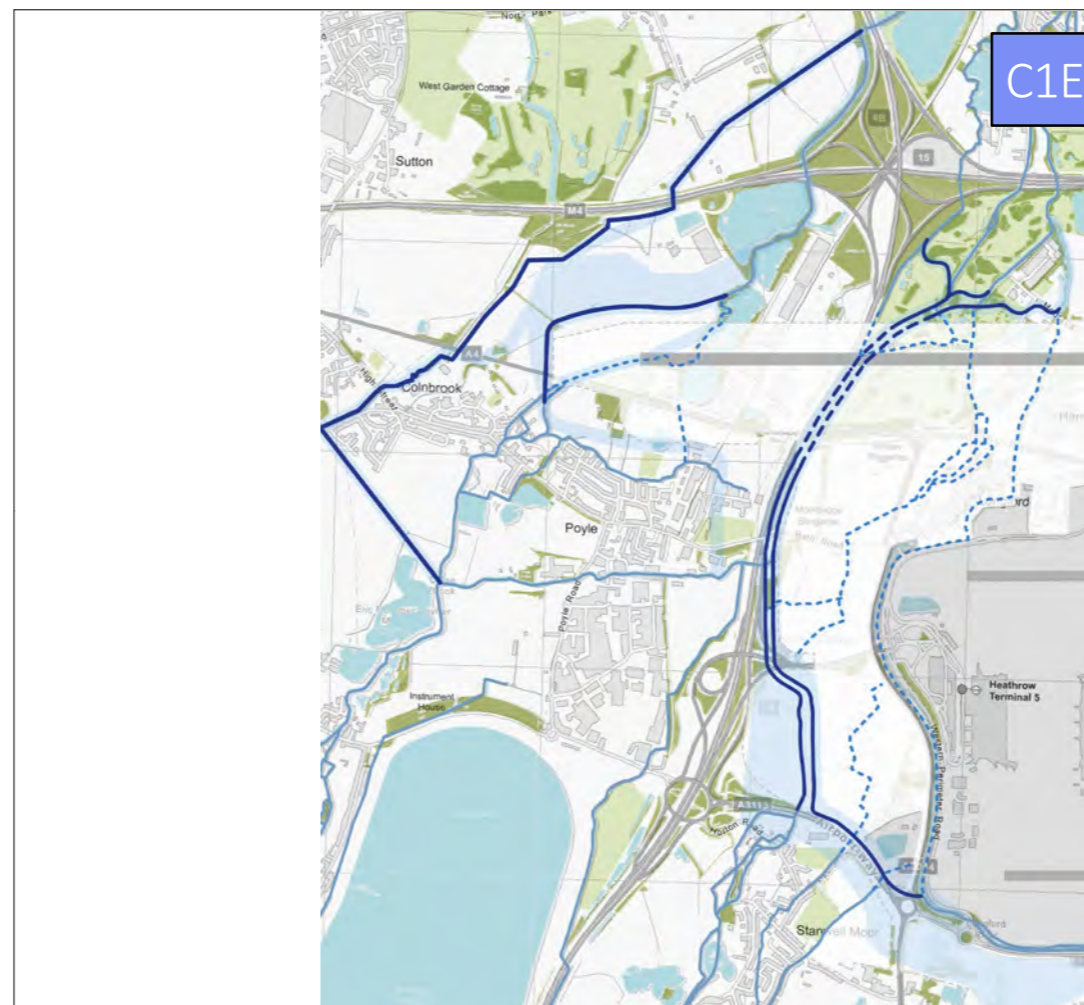
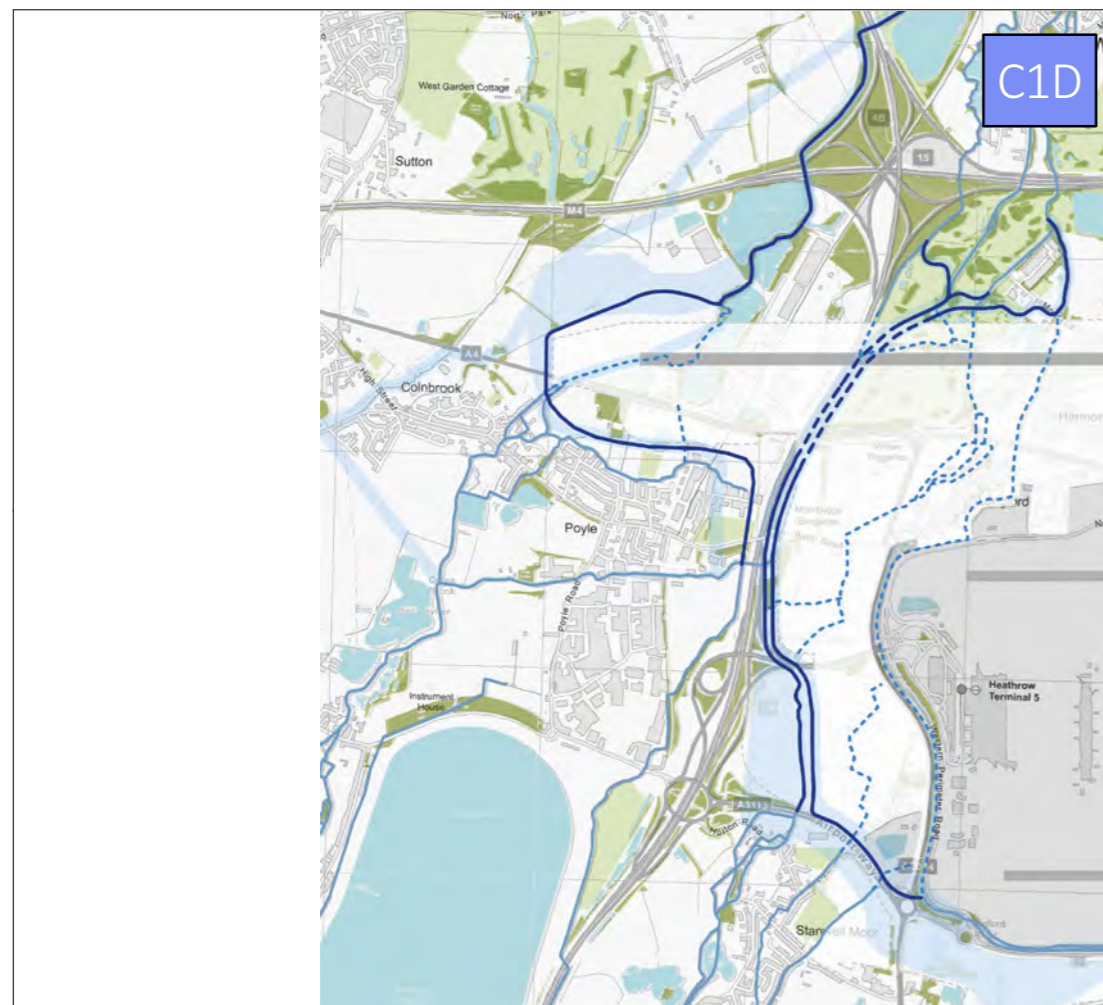
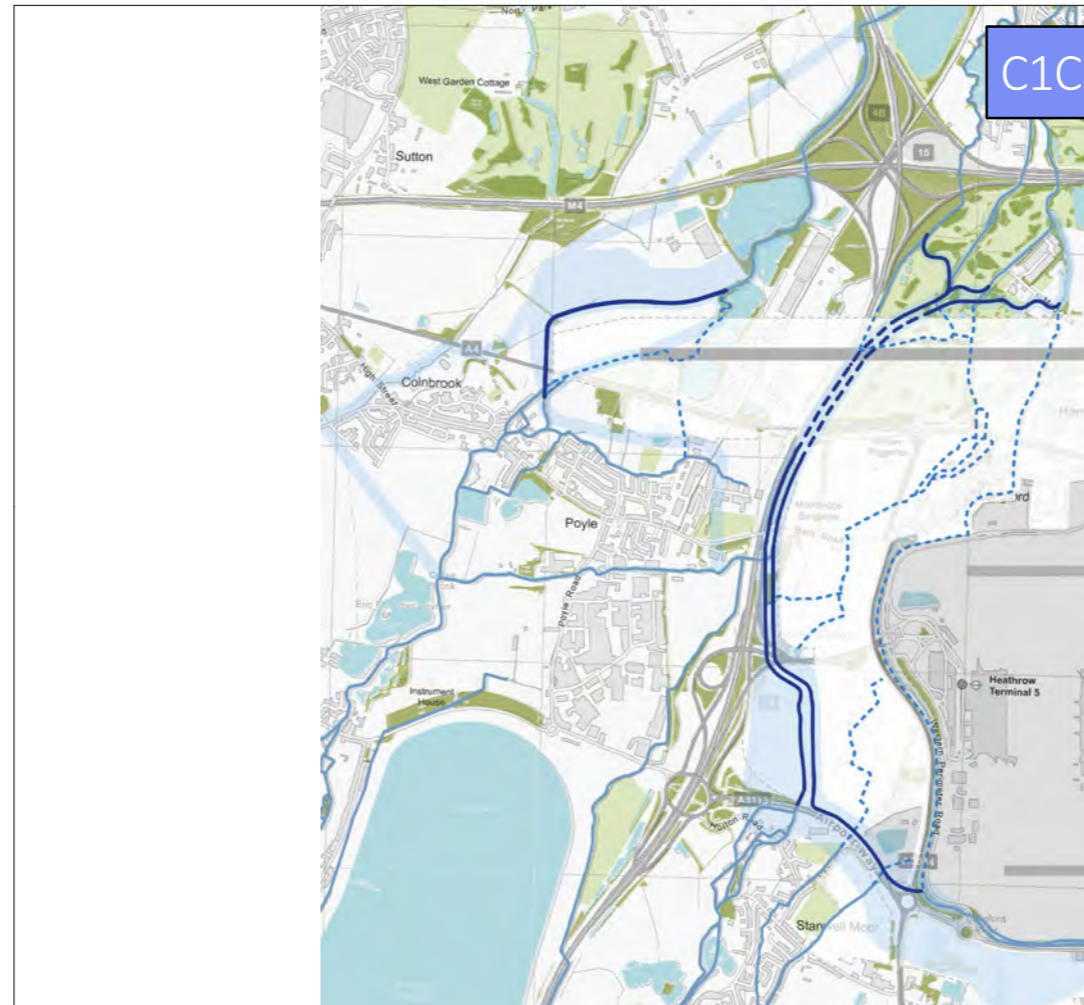
Title
Figure 3.10: Southern access to Central Terminal area options

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 21/05/2018	Status FINAL
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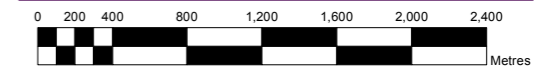
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- Potential open river channel
- Potential enclosed river channel
- Existing channels diverted
- Existing rivers
- Area potentially affected by alignment options under consideration
- Runway

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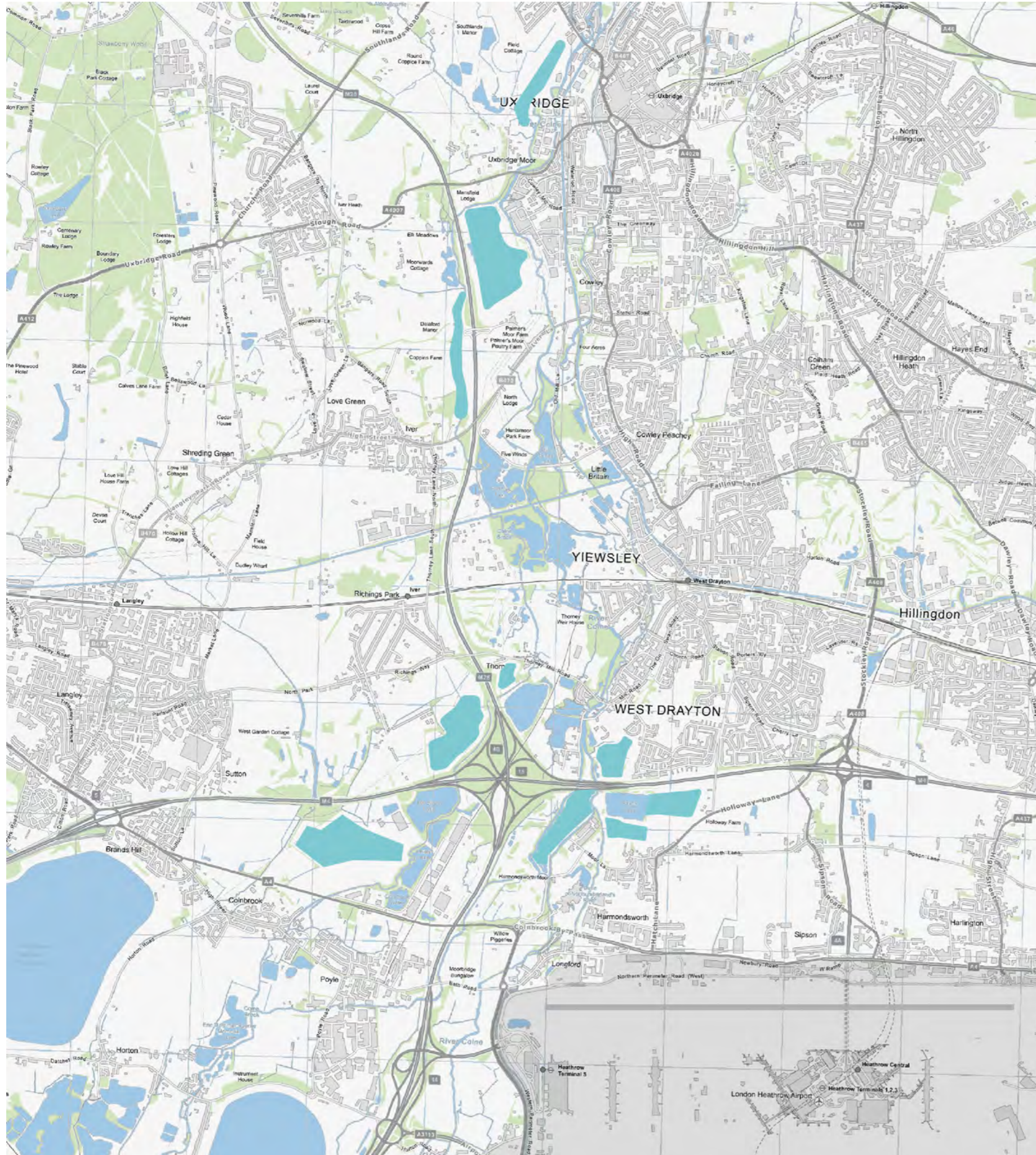
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 3.11: Conveyance options to retain river flows


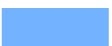

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 14/05/2018	Status FINAL
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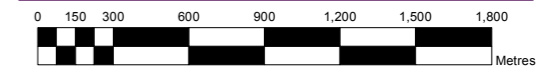


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-  Heathrow Planning Boundary
-  Existing water bodies
-  Potential sites for flood storage

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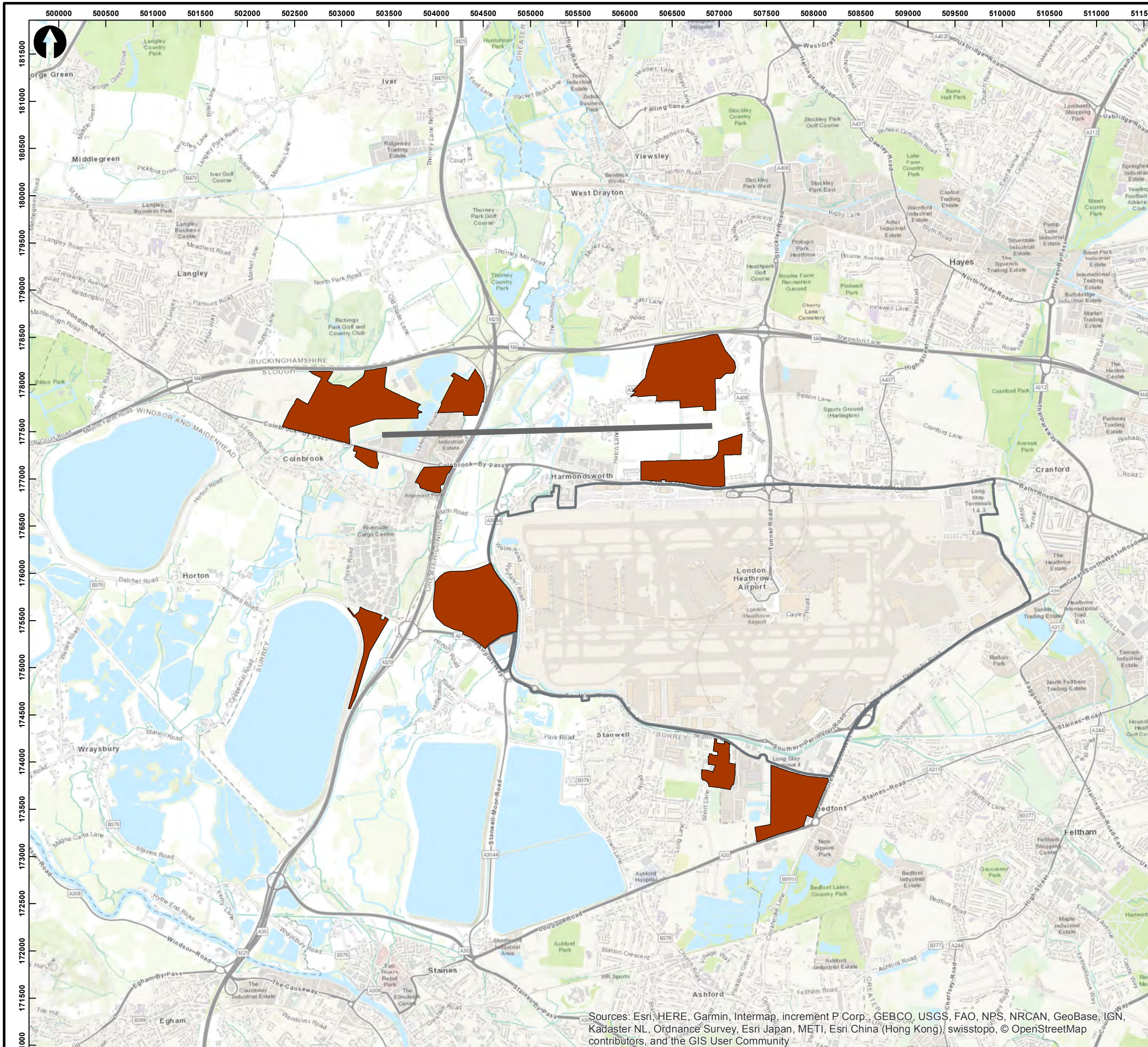
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Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 3.12: Off-Airport flood storage options

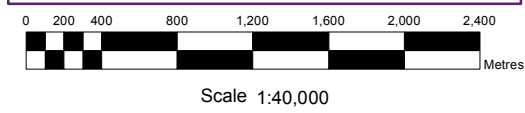
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- Heathrow Planning Boundary
- Possible sites under consideration for airport supporting facilities
- Runway

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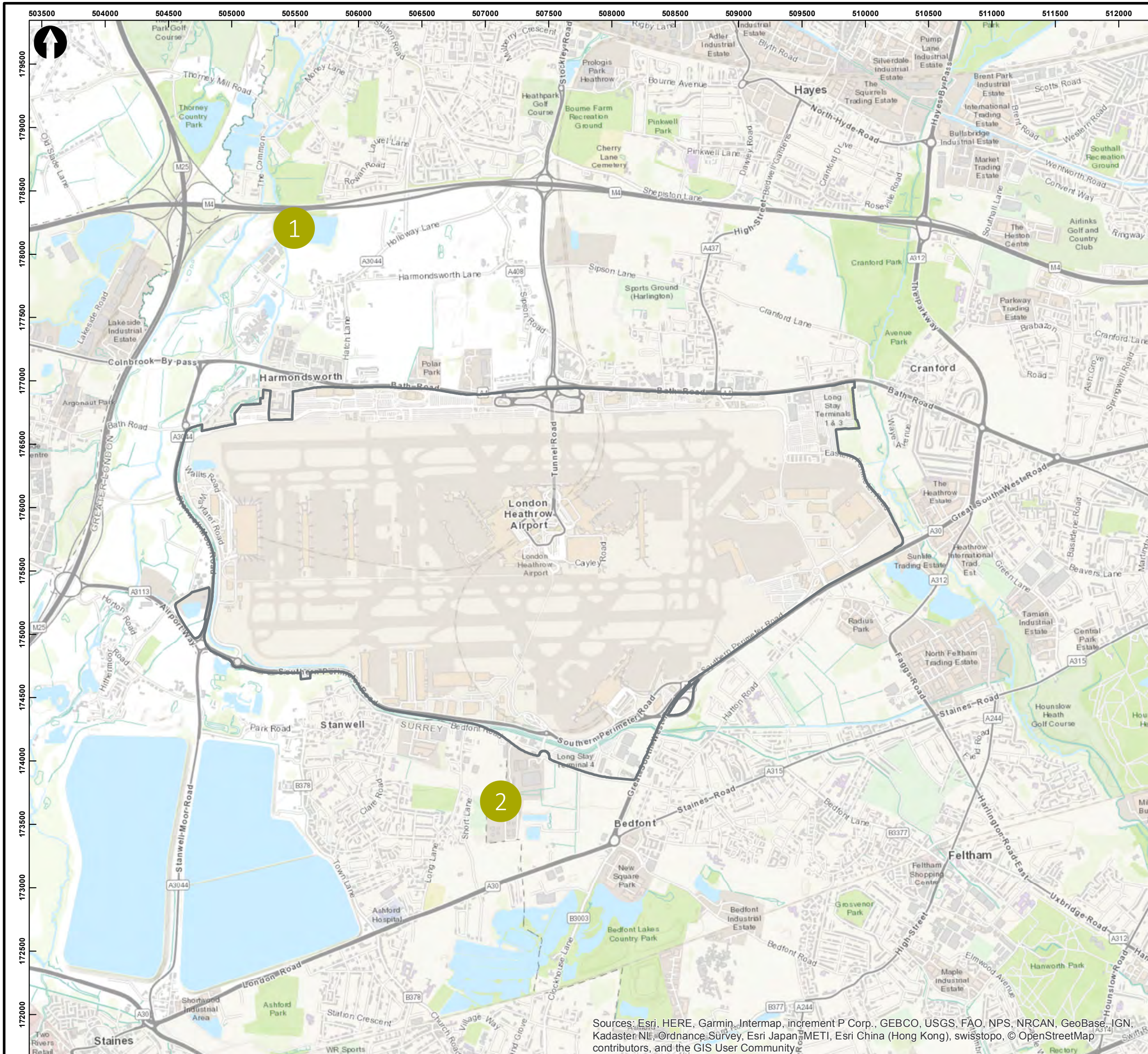
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Title
Figure 3.13: Location of airport supporting facilities

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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000022				Version 1.0

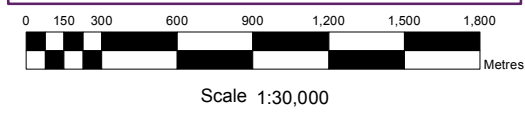
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- Heathrow Planning Boundary
- 1 North option
- 2 South option

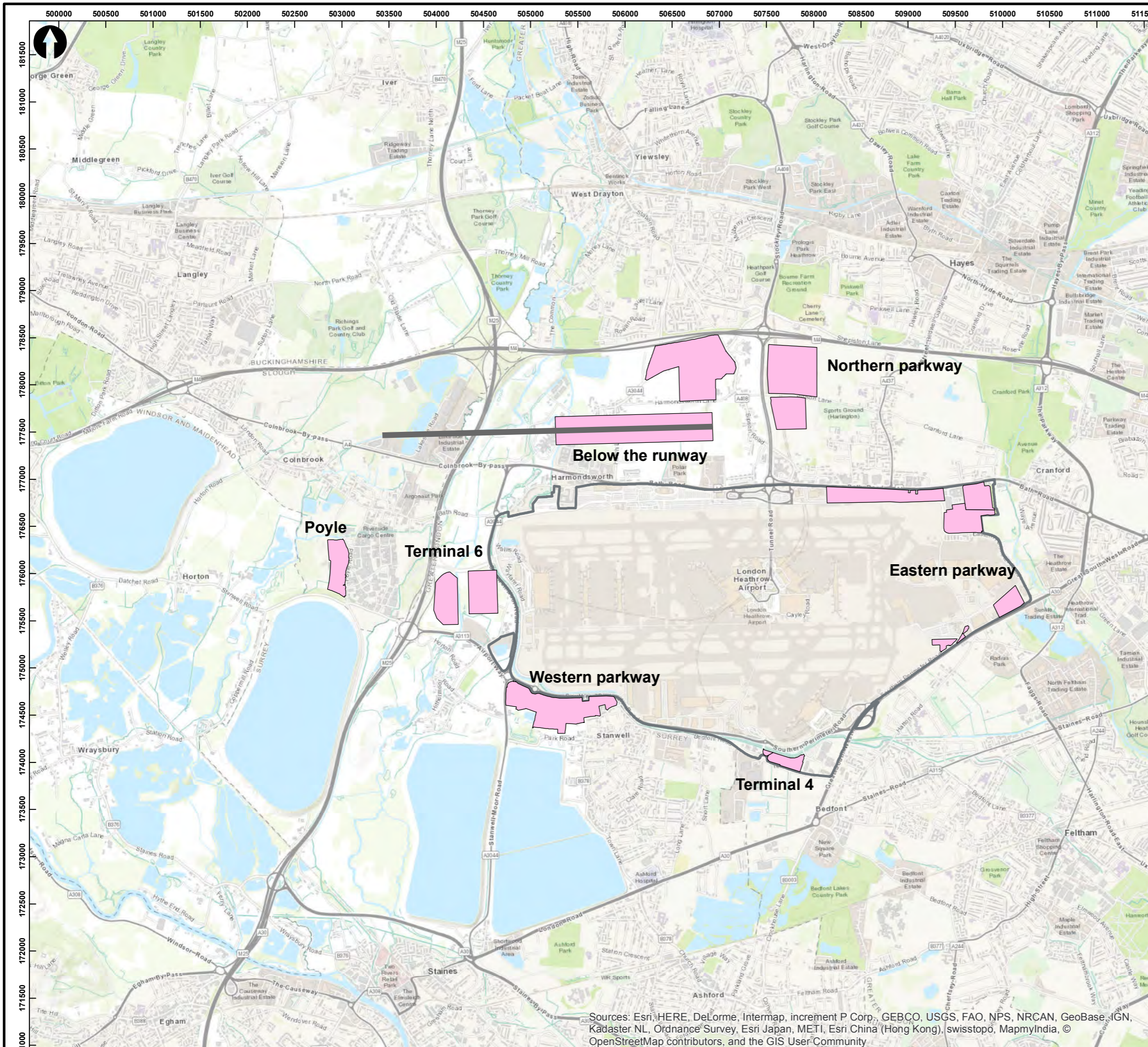
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Title Figure 3.14: Location options for a new waste water treatment works				
Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 11/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000023				Version 1.0

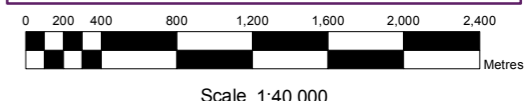
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



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- Heathrow Planning Boundary
- Potential remote parkway car parking options
- Runway

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Title
Figure 3.15: Remote parkway car parking options plan

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 21/05/2018	Status FINAL
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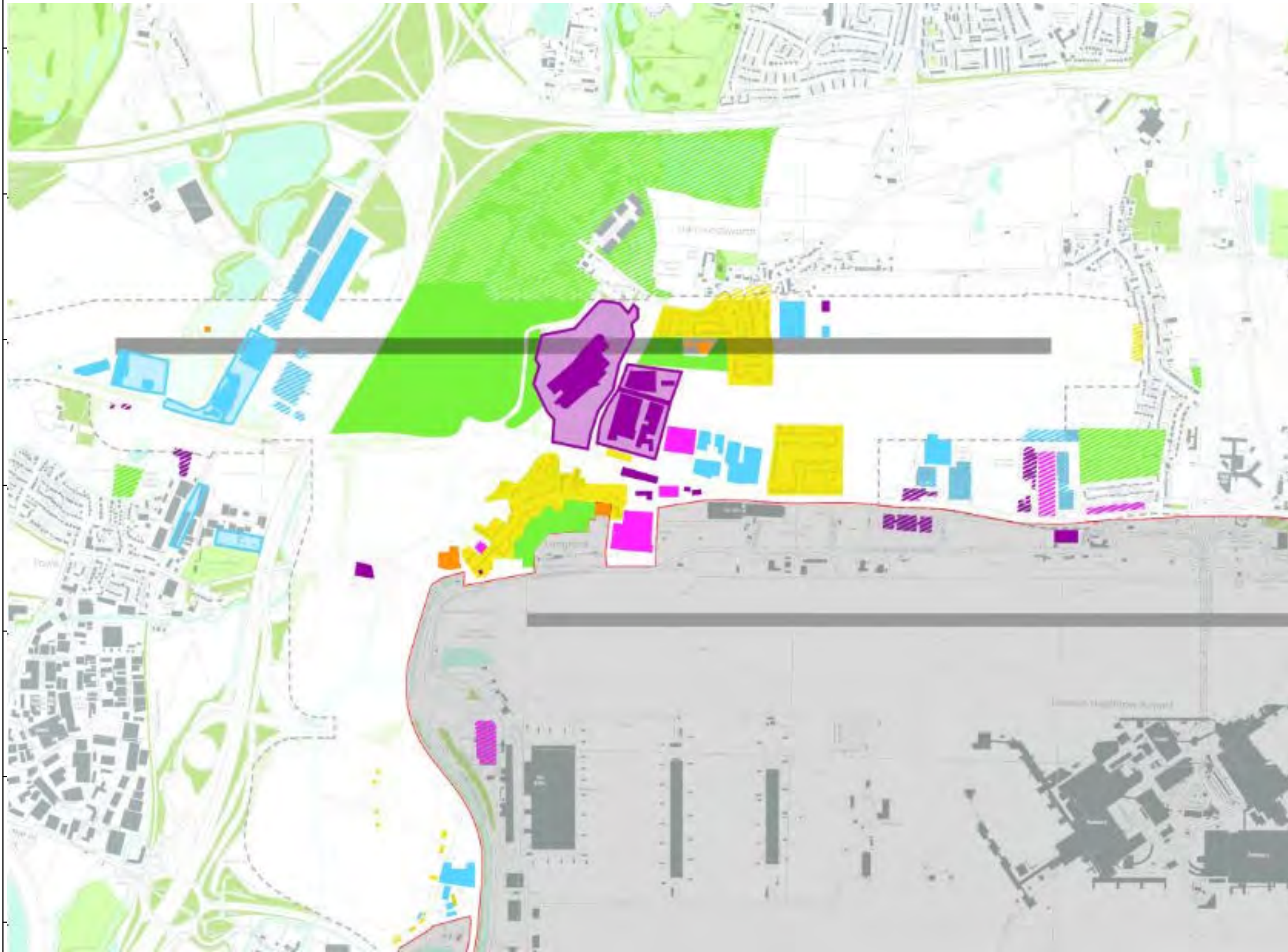
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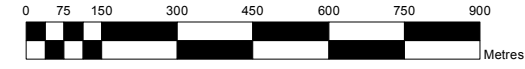
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- Heathrow Planning Boundary
- Runway
- Displaced uses**
- Community
- Residential
- Hotel
- Commercial
- Industrial
- Public open space (including allotments)
- Potential displaced uses**
- Community
- Residential
- Hotel
- Commercial
- Industrial
- Public open space (including allotments)

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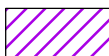


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 3.16: Plan showing displaced uses

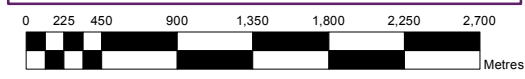
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000025				Version 1.0



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-  Heathrow Planning Boundary
-  Potential borrow pits for construction
-  Potential temporary construction sites
-  Potential sites for construction, borrow pits or stockpiling
-  Runway
-  Land being considered for the expanded airfield

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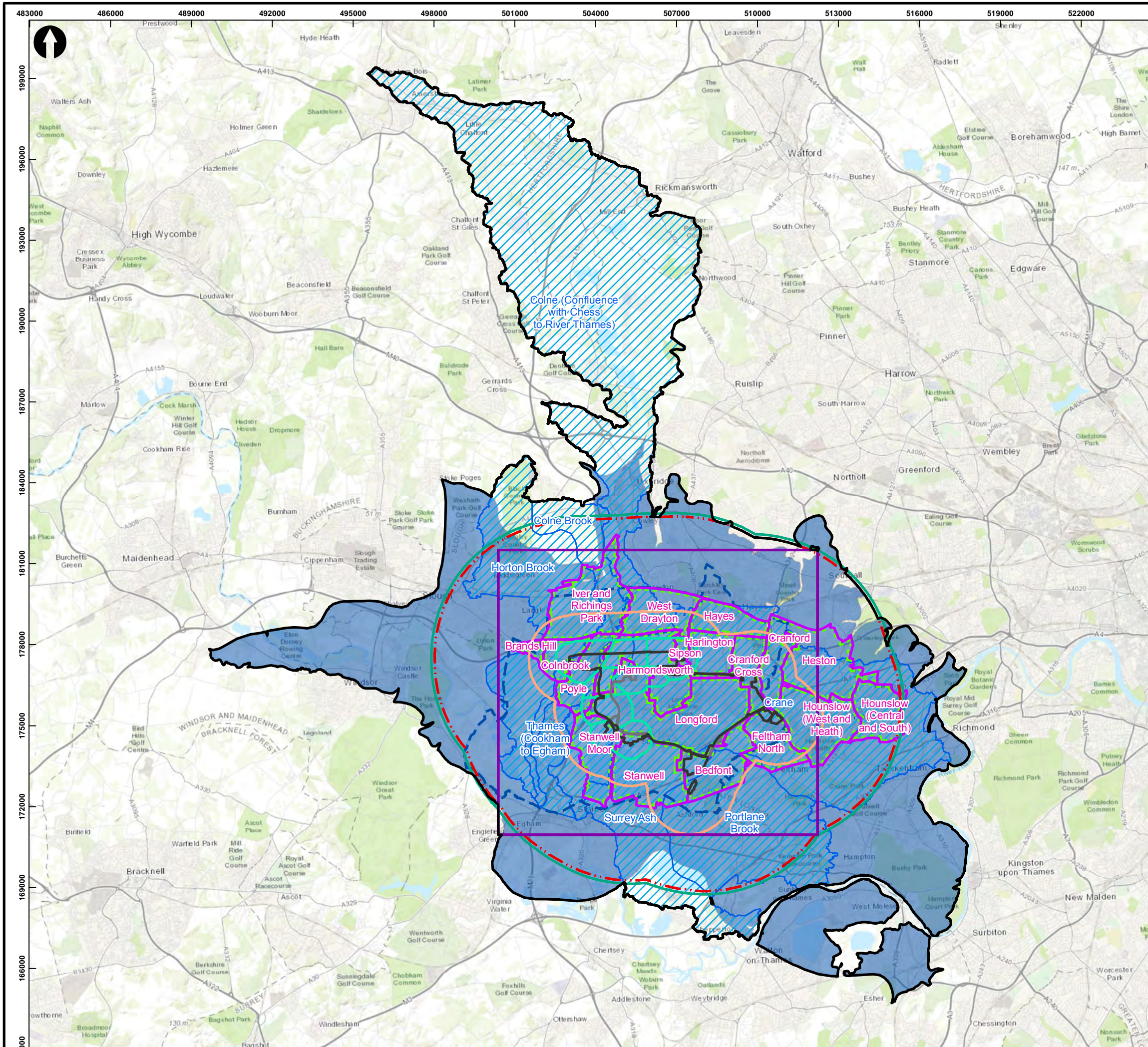
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 3.17: Construction sites plan

Company Wood	Drawn By GOORN	Chk/Approved DEERC	Drawn Date 11/05/2018	Status FINAL
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000026	Version 1.0
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	Env CEA ZOI Draft2
	Airports Commission 4.9 boundary
	Heathrow Planning Boundary
	Air quality
	Landscape and visual
	Land quality
	Agricultural land quality
	Biodiversity
	Community
	Health
	Historic environment
	Water (surface water)
	Water (Groundwater)

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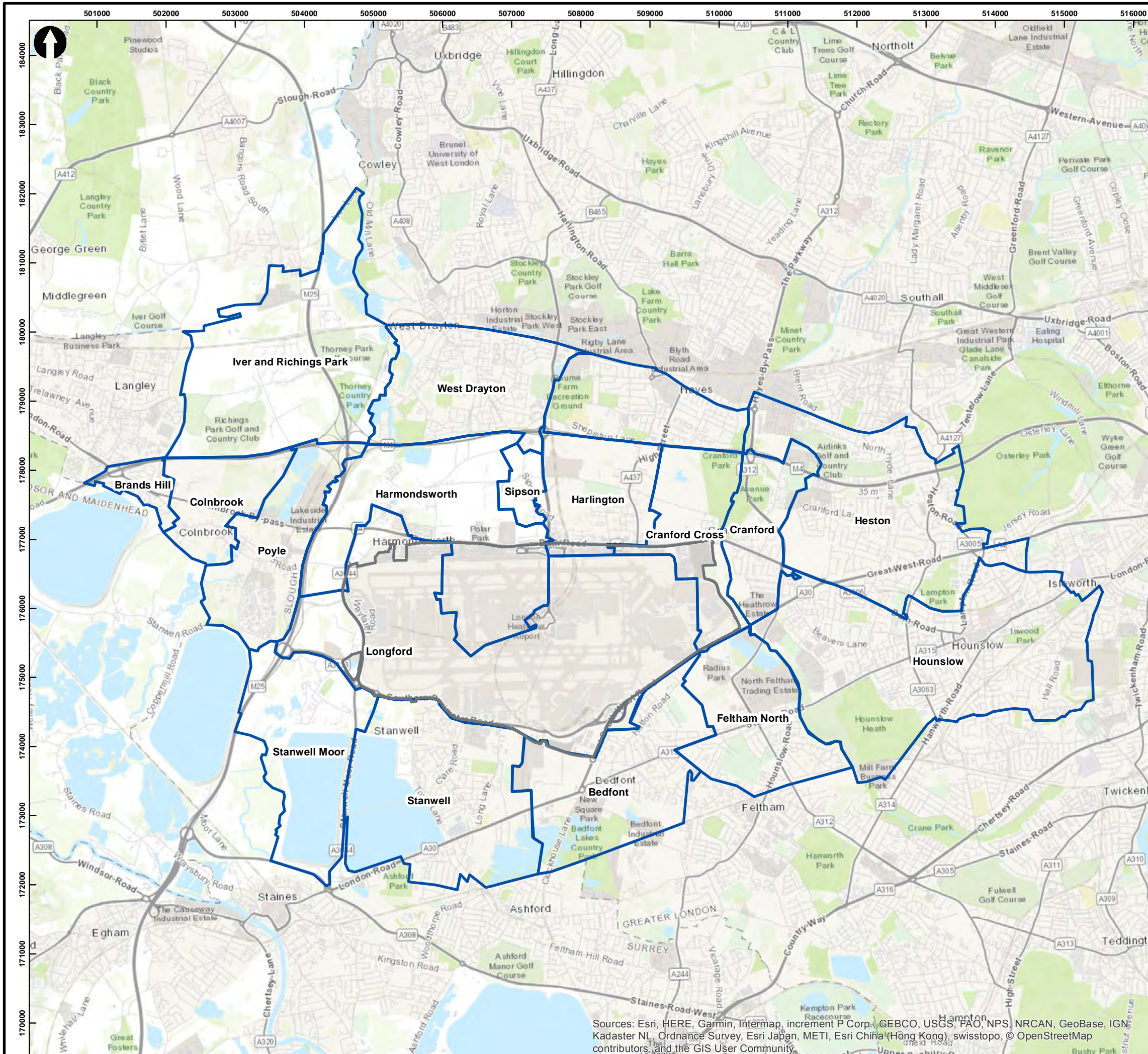
Key plan



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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

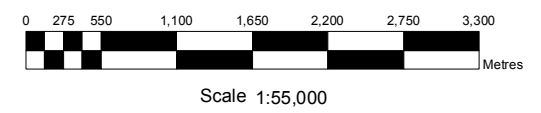
Title
 Figure 4.1: Cumulative effects assessment zone of influence

Company Wood	Drawn By BUTLS	Chk/Approved PALLJ	Drawn Date 11/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000027				Version 1.0



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- Heathrow Planning Boundary
- Community areas



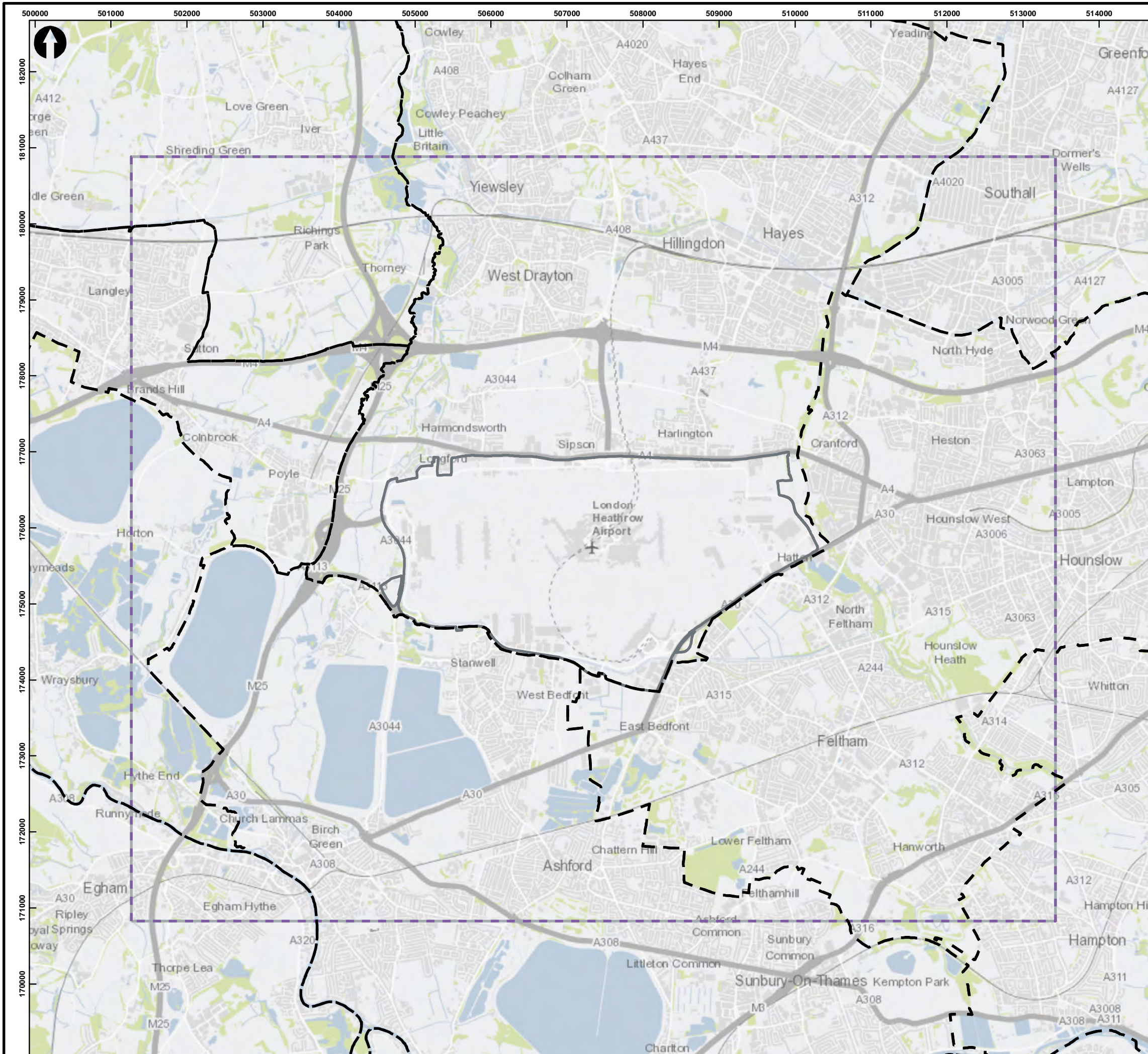
Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53




Title
Figure 4.2: Community areas for reporting of in-combination effects

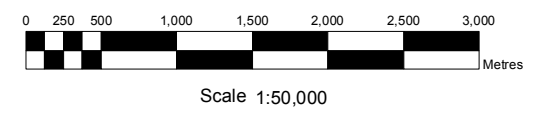
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000028				Version 1.0

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



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-  Heathrow Planning Boundary
-  District borough boundaries
-  Proposed Core AQO Assessment Area

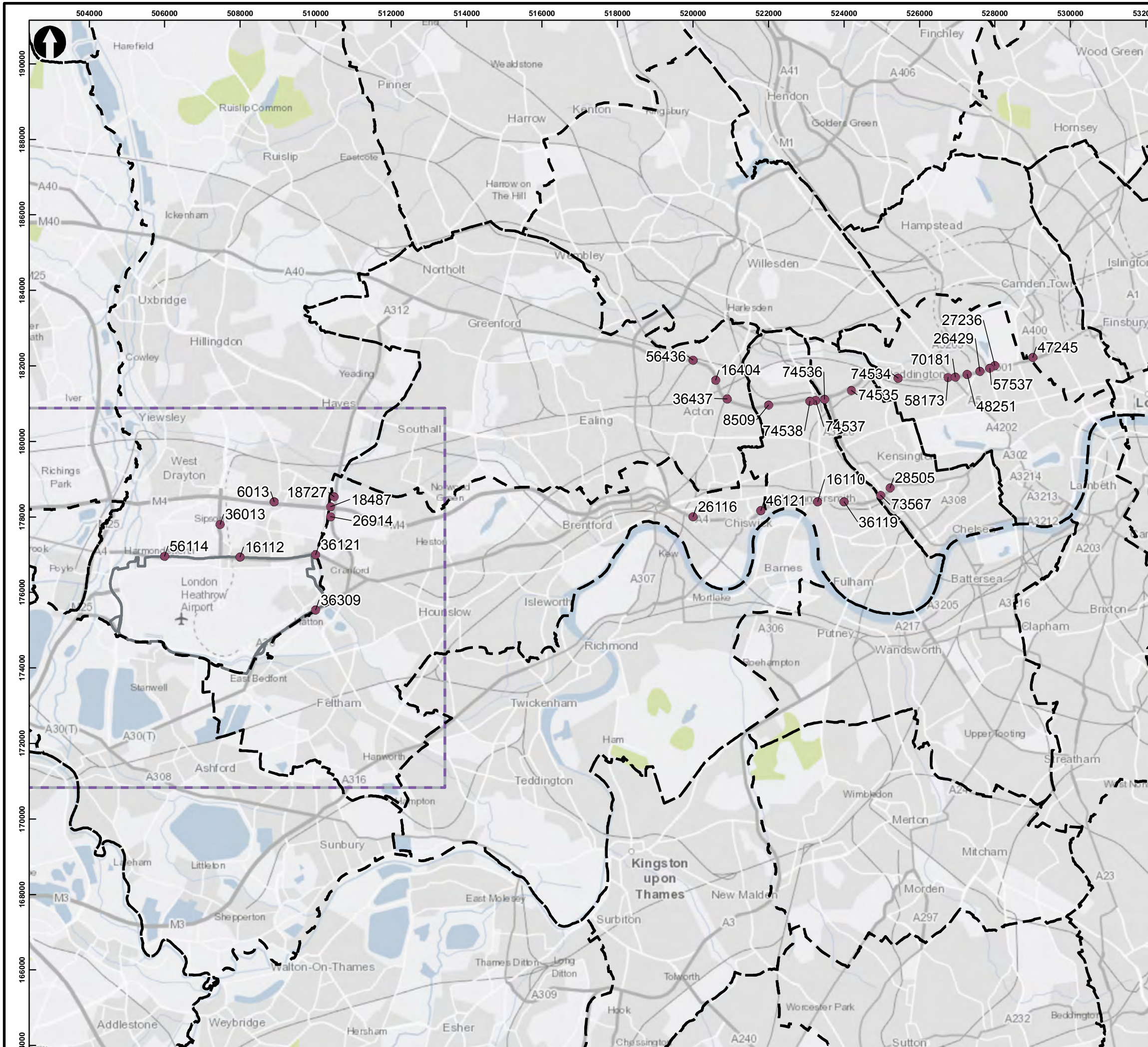


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

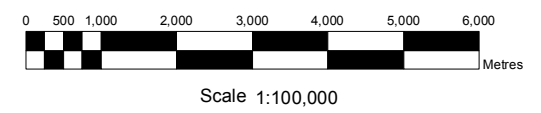
Title
 Figure 5.1: Proposed 12km x 11km core AQO assessment area

Company Wood	Drawn By BUTLS	Chk/Approved WARRB	Drawn Date 11/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000029				Version 1.0



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-  Heathrow Planning Boundary
-  District borough boundaries
-  Proposed Core AQO Assessment Area
-  Key Defra PCM locations

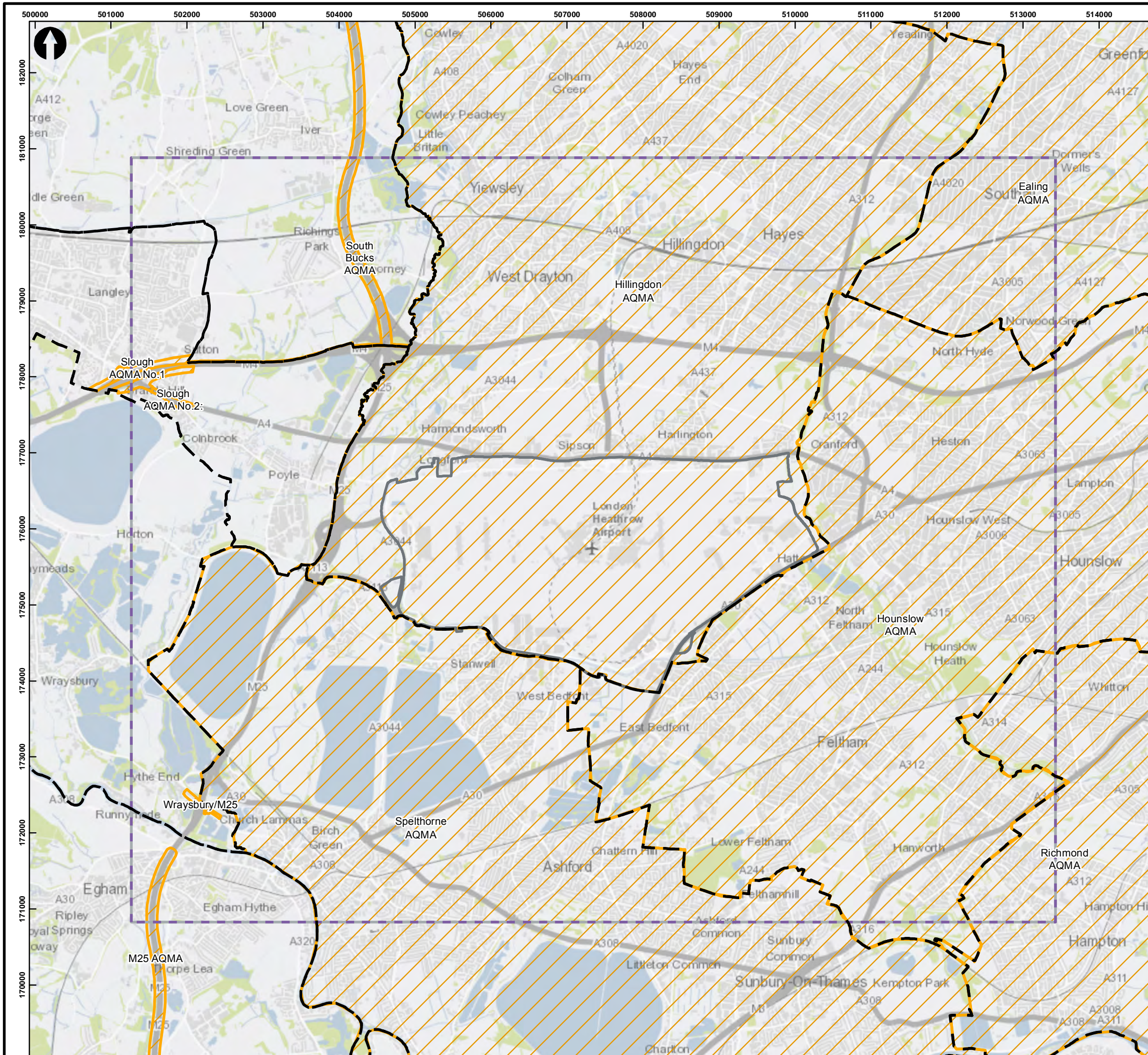


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

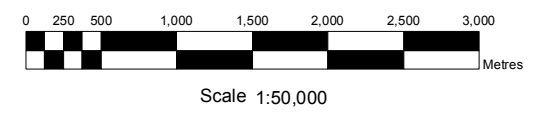
Title
 Figure 5.2: Key Defra PCM locations

Company Wood	Drawn By BUTLS	Chk/Approved WARRB	Drawn Date 11/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000030				Version 1.0



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-  Heathrow Planning Boundary
-  District borough boundaries
-  Proposed Core AQO Assessment Area
-  Air Quality Management Areas

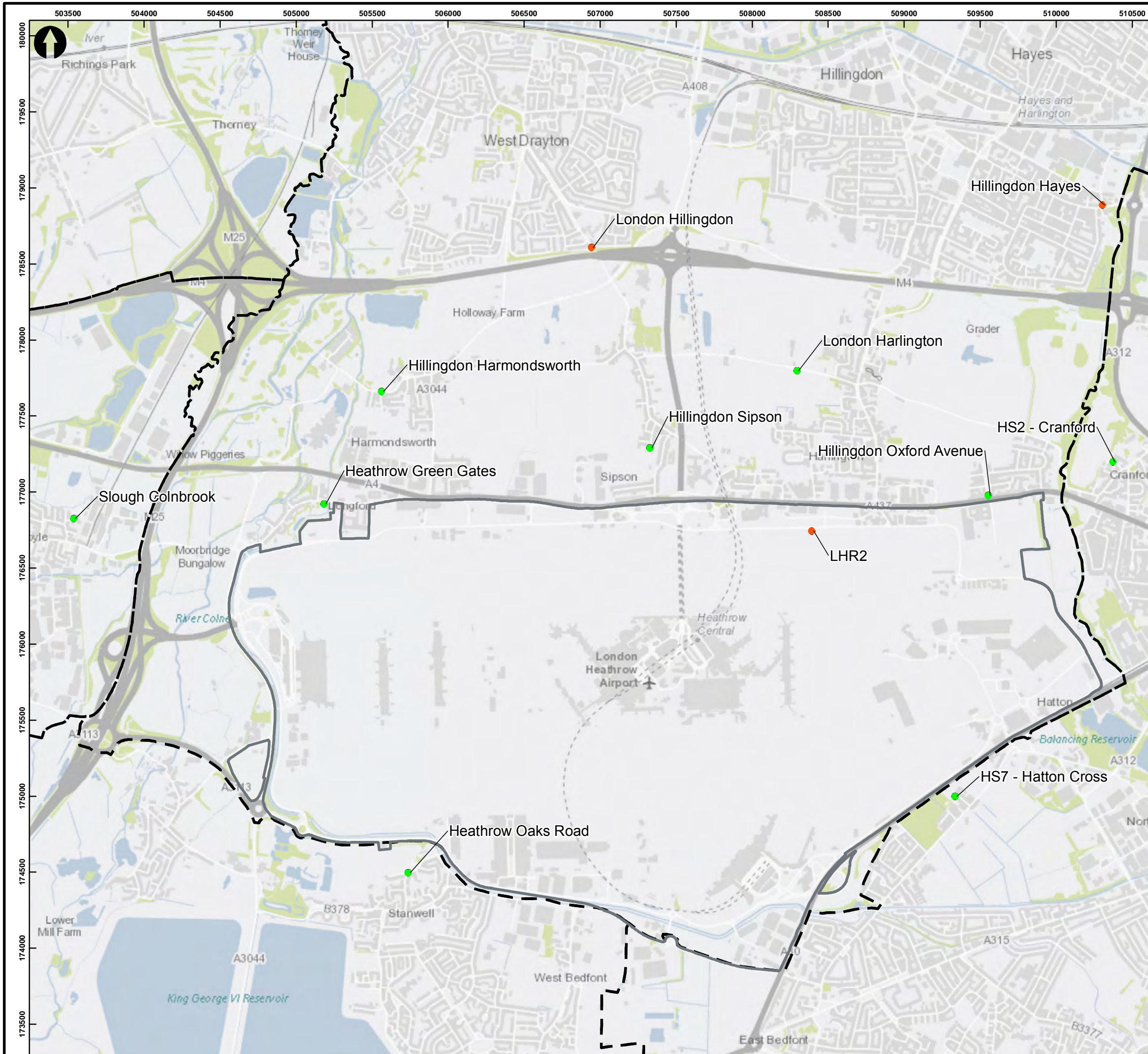


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Title
Figure 5.3: Air Quality Management Areas (AQMAs) around Heathrow

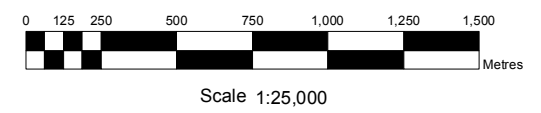
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000031				Version 1.0



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Heathrow Planning Boundary
 District borough boundaries
Automatic air quality monitoring stations- 2016 NO₂ concentration

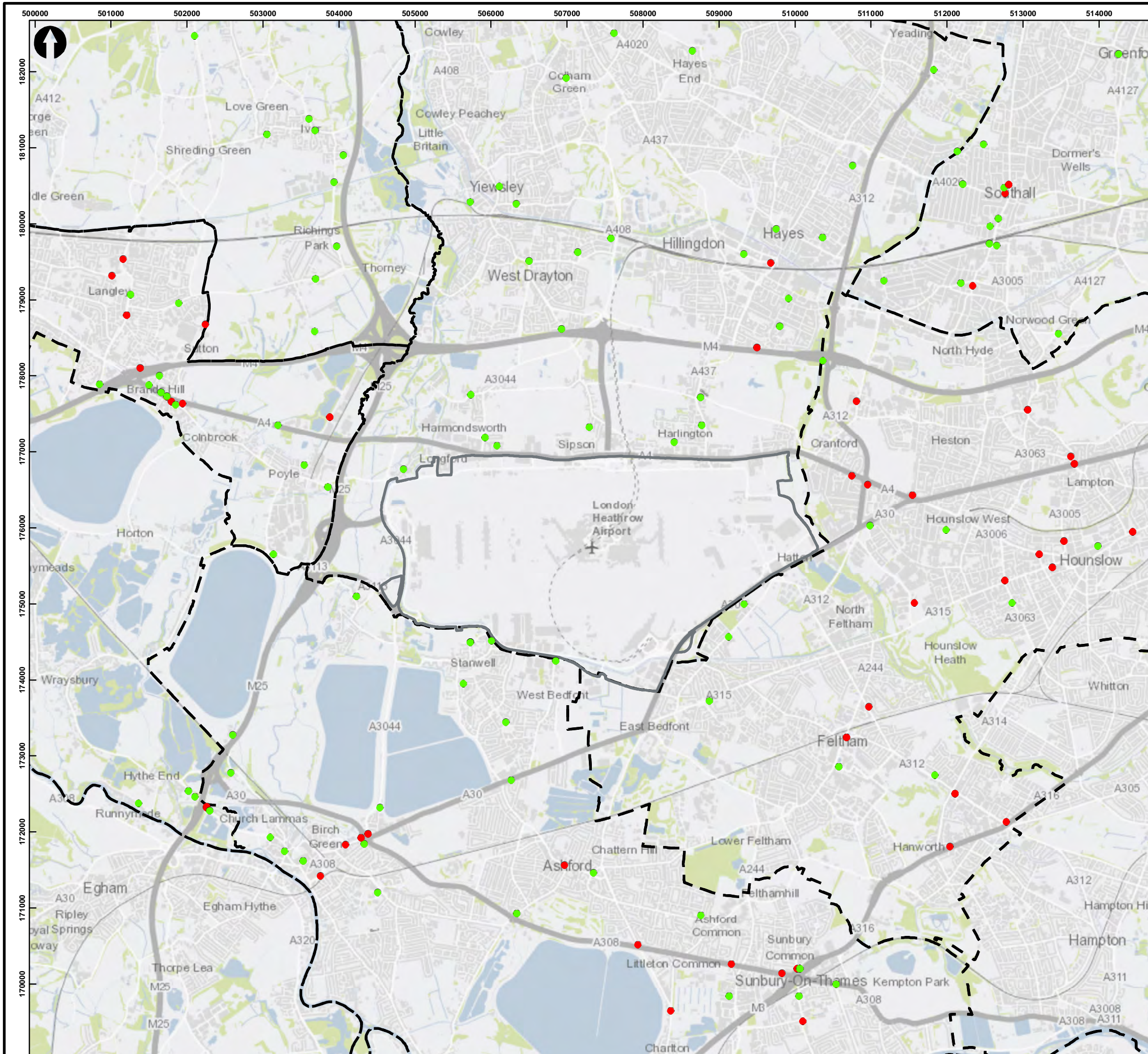
- <math>< 40</math>
- $\ge 40 \mu\text{g}/\text{m}^3$



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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 5.4: Automatic air quality monitoring stations

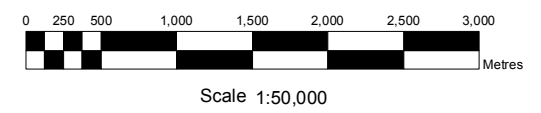
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000032				Version 1.0



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Heathrow Planning Boundary
 District borough boundaries

2016 NO₂ diffusion tube results
 <math>< 40 \mu\text{g}/\text{m}^3</math>
 $\ge 40 \mu\text{g}/\text{m}^3$

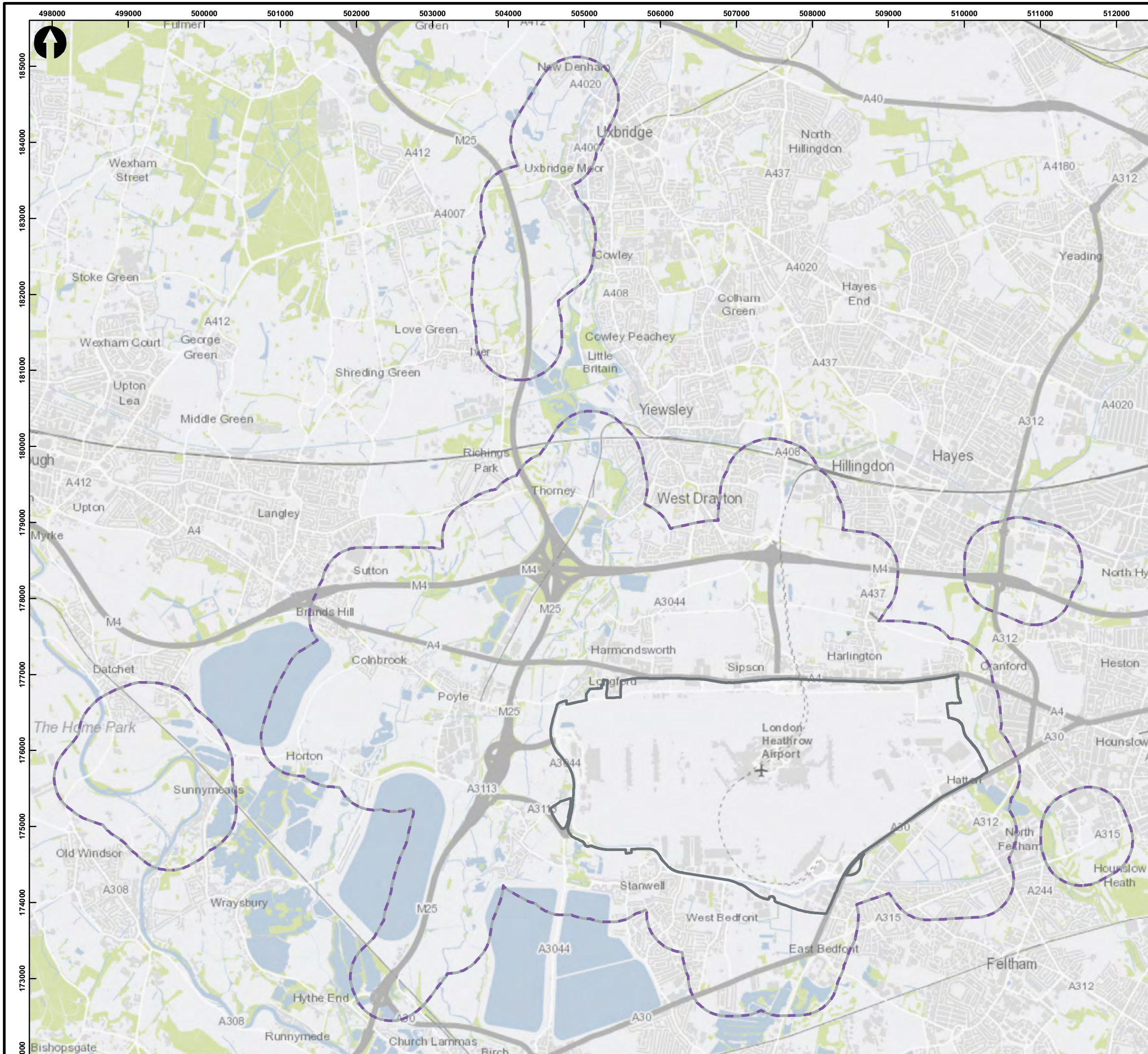


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Title
 Figure 5.5: 2016 nitrogen dioxide diffusion tube results

Company Wood	Drawn By BUTLS	Chk/Approved WARRB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000033				Version 1.0



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-  Heathrow Planning Boundary
-  Biodiversity study area

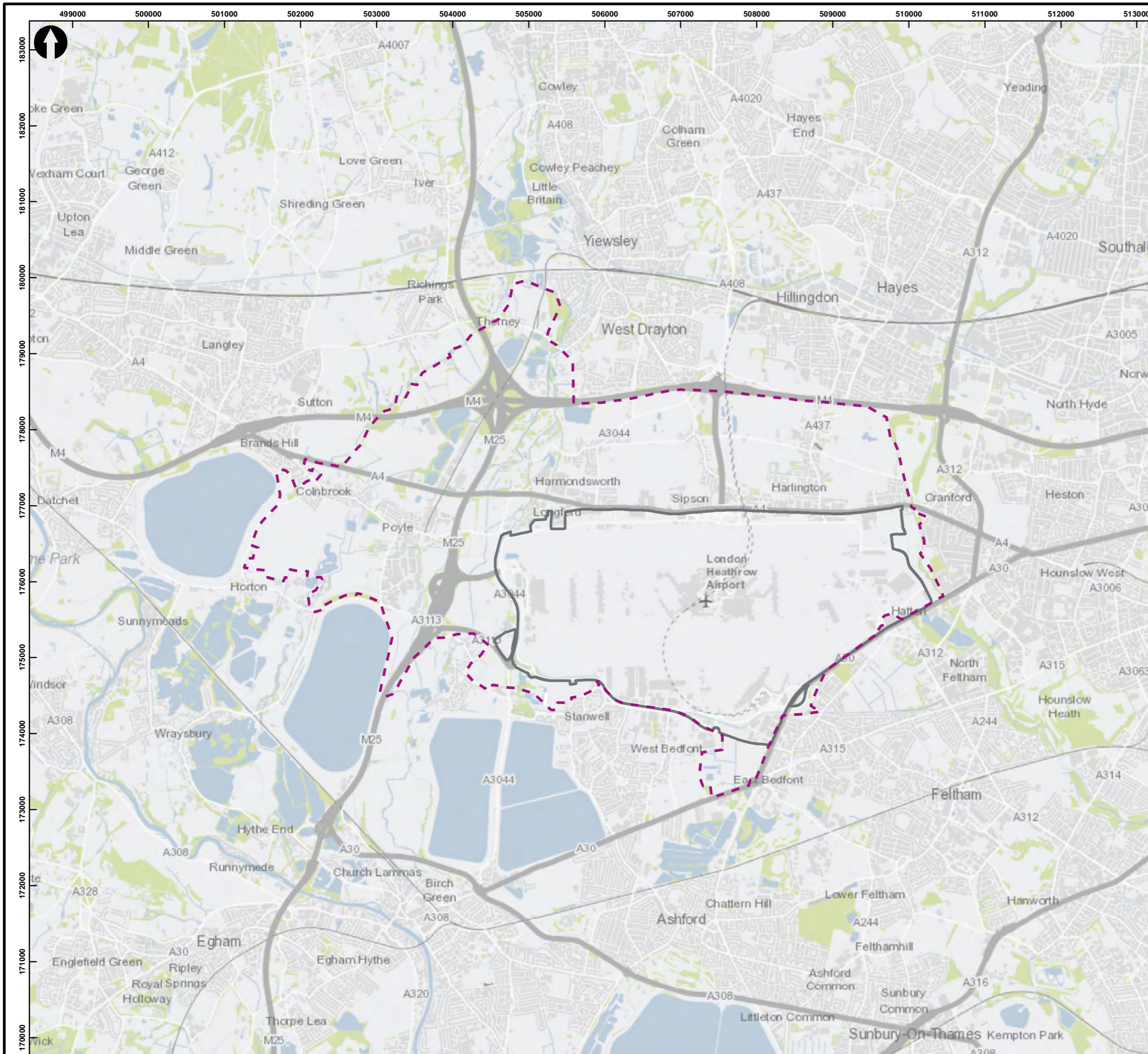


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

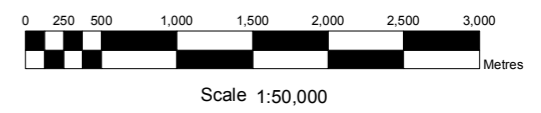
Title
 Figure 6.1: Biodiversity study area

Company Wood	Drawn By BUTLS	Chk/Approved TIMOD	Drawn Date 11/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000034				Version 1.0



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- Heathrow Planning Boundary
- Baseline data collection area to date

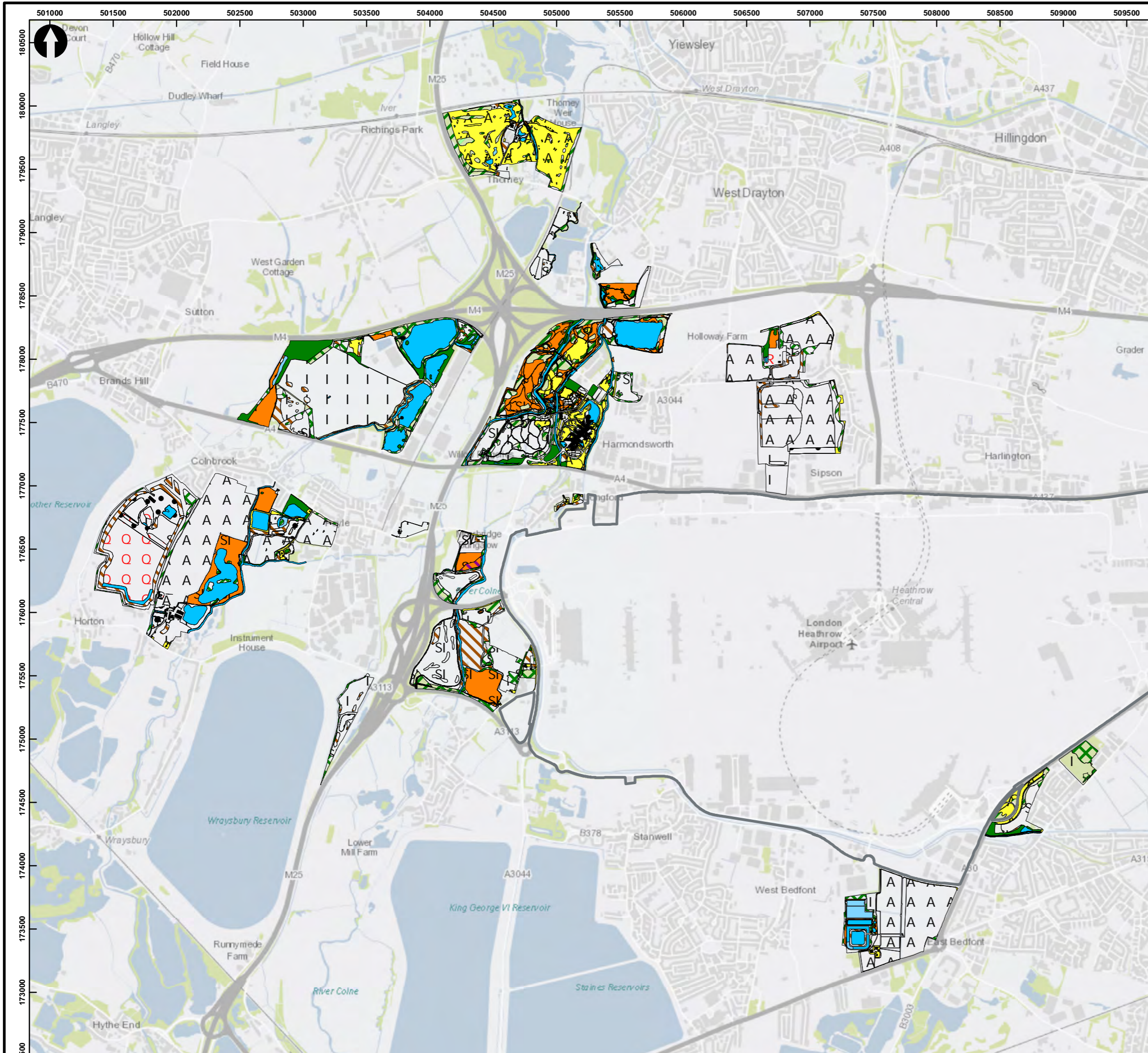


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 6.2: Biodiversity data collection area 2017

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Heathrow Planning Boundary

Phase 1 habitat

	A1.1.1 - Broadleaved woodland - semi-natural		G2 - Running Water
	A1.1.2 - Broadleaved woodland - plantation		I2.1 - Quarry
	A1.3.2 - Mixed woodland - plantation		I2.2 - Spoil
	A2.1 - Scrub-dense/continuous		I2.4 - Refuse-tip
	B2.2 - Neutral grassland-semi-improv...		J1.1 - Cultivated/disturbed land - arable
	B4 - Improved grassland		J1.2 - Cultivated/disturbed land - amenity grassland
	B5 - Marsh/marshy grassland		J1.3 - Cultivated/disturbed land - ephemeral/short
	B6 - Poor semi-improved grassland		J1.4 - Introduced shrub
	C3.1 - Other tall herb and fern-ruderal		J2.1.2 - Intact hedge-species-poor
	F1 - Swamp		J3.6 - Buildings
	F2.2 - Marginal and inundation-marginal		J4 - Bare ground
	G1 - Standing Water		

Due to the scale of the mapping shown some features such as hedgerows may not be legible

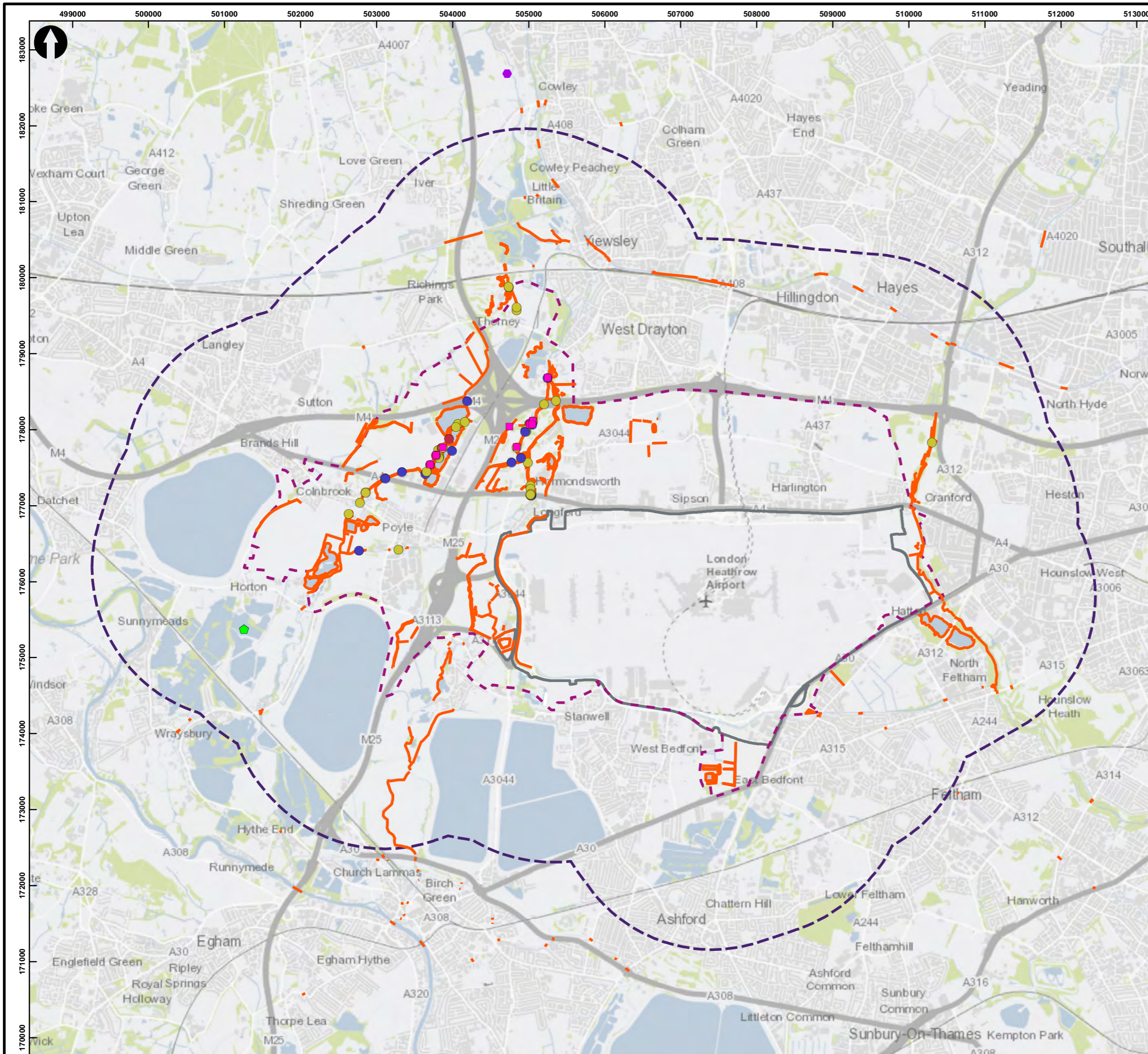
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 6.3: Phase 1 survey coverage

Company Wood	Drawn By GRES	Chk/Approved JONEK	Drawn Date 11/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000036				Version 1.0



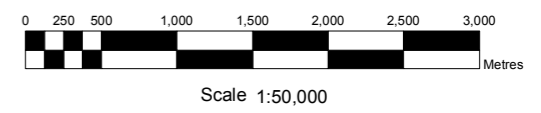
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- Heathrow Planning Boundary
- Baseline data collection area
- 2km search area
- Survey extent

- Historical records**
- Otter historical records
 - Mink historical records

- Otter field survey signs**
- Otter slides

- Spraint**
- Fresh
 - Old
 - Recent

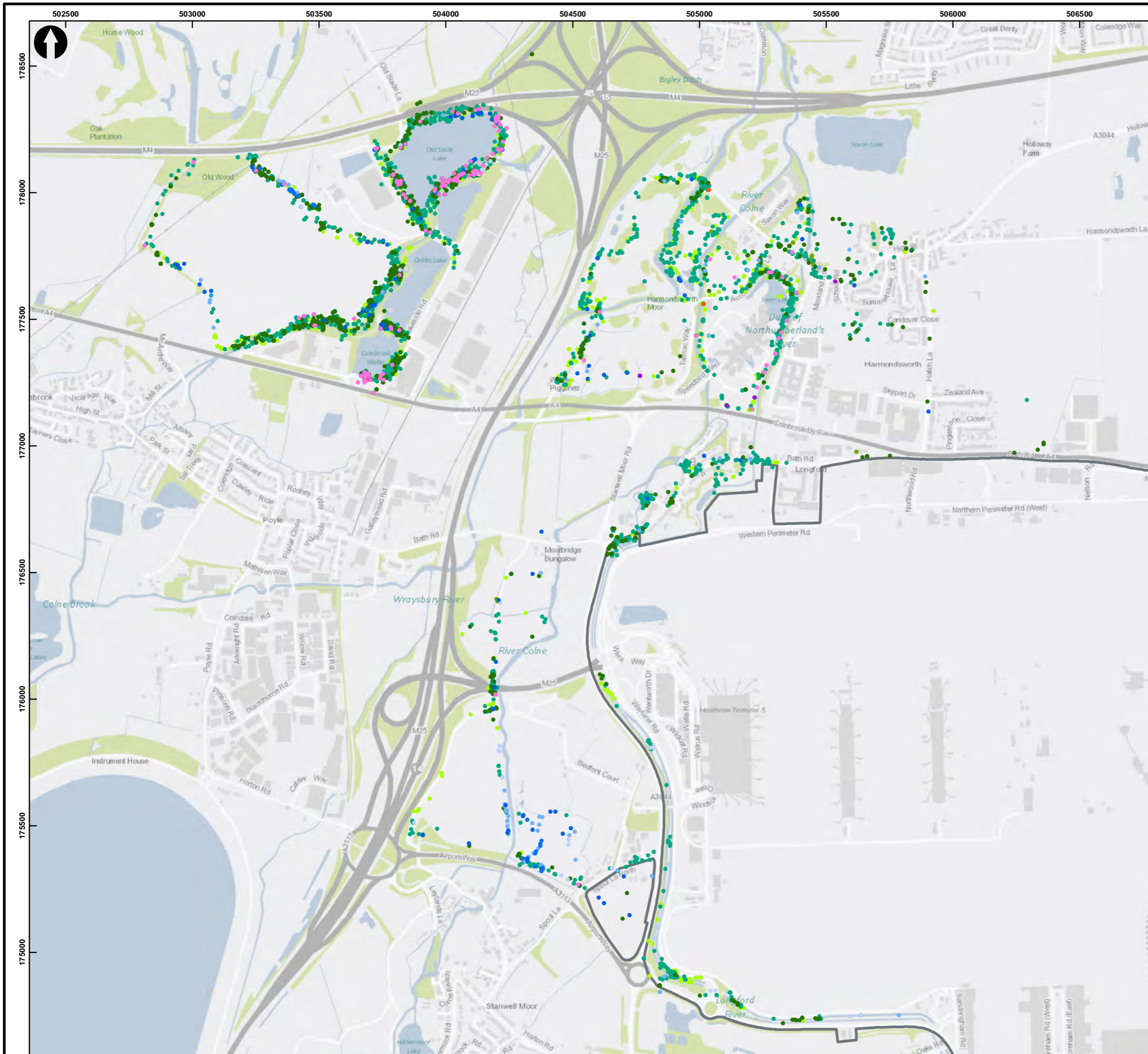


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 6.4: Otter survey results

Company Wood	Drawn By GRES	Chk/Approved KIRBA	Drawn Date 11/05/2018	Status FINAL
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Heathrow Planning Boundary

Bat species

- Unidentified bat species
- Long-eared bat
- Myotis species
- Daubenton's
- Noctule
- Serotine
- Leisler's
- Noctule/Serotine/Leisler's
- Nyctalus species
- Common pipistrelle
- Soprano pipistrelle
- Nathusius' pipistrelle
- Common/Soprano pipistrelle
- Common/Nathusius' pipistrelle

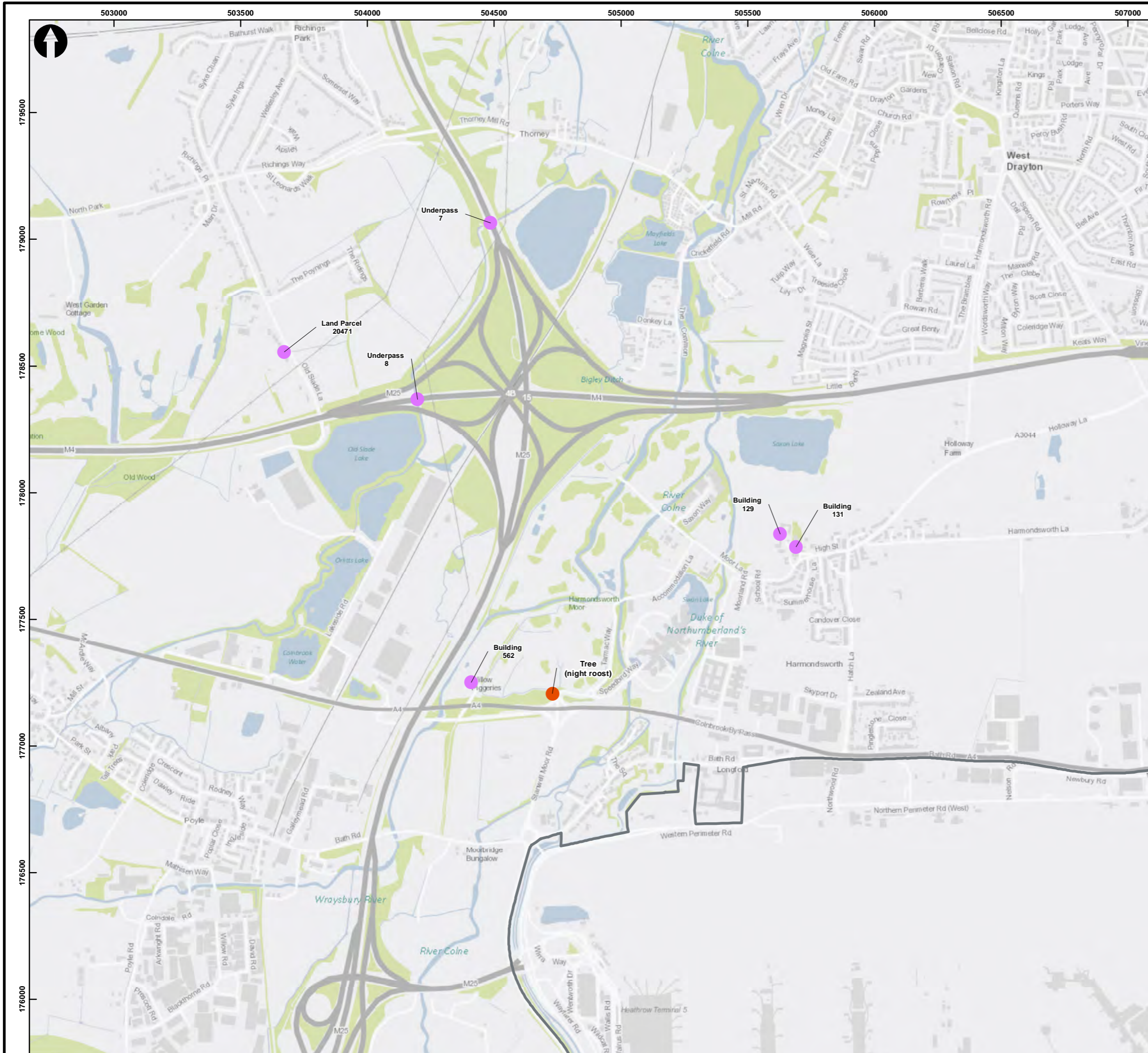
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 6.5: Bat activity survey results

Company Wood	Drawn By BUTLS	Chk/Approved JONEK	Drawn Date 11/05/2018	Status FINAL
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Heathrow Planning Boundary

Bat Roost

- Built structure
- Tree



Scale 1:15,000

Key plan

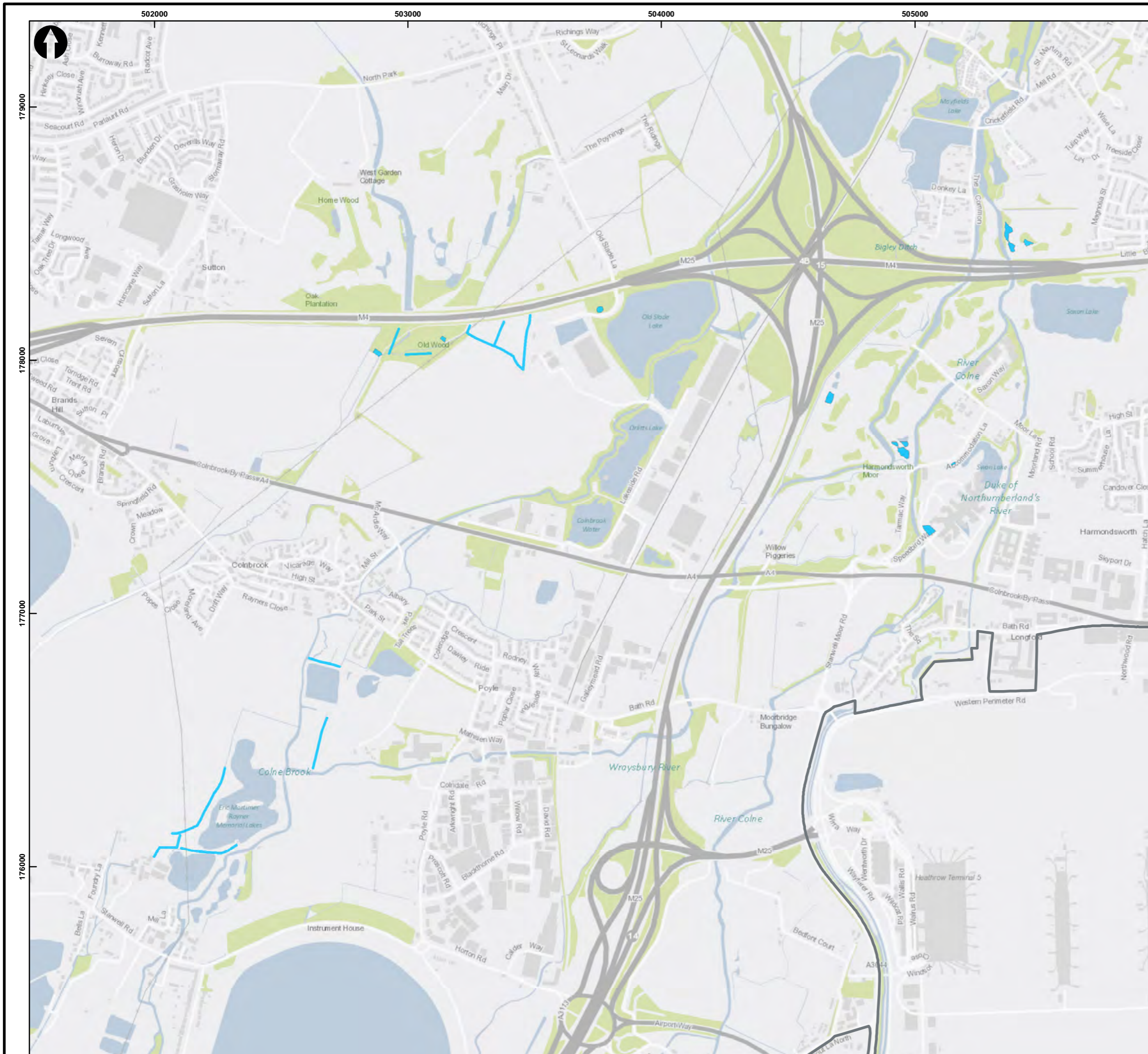


Heathrow




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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 6.6: Bat roosts survey results

Company Wood	Drawn By GRES	Chk/Approved KIRBA	Drawn Date 11/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000039				Version 1.0



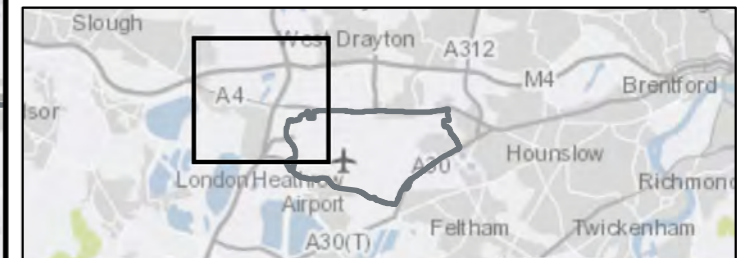
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-  Heathrow Planning Boundary
-  Waterbody
-  Ditch



Scale 1:15,000

Key plan

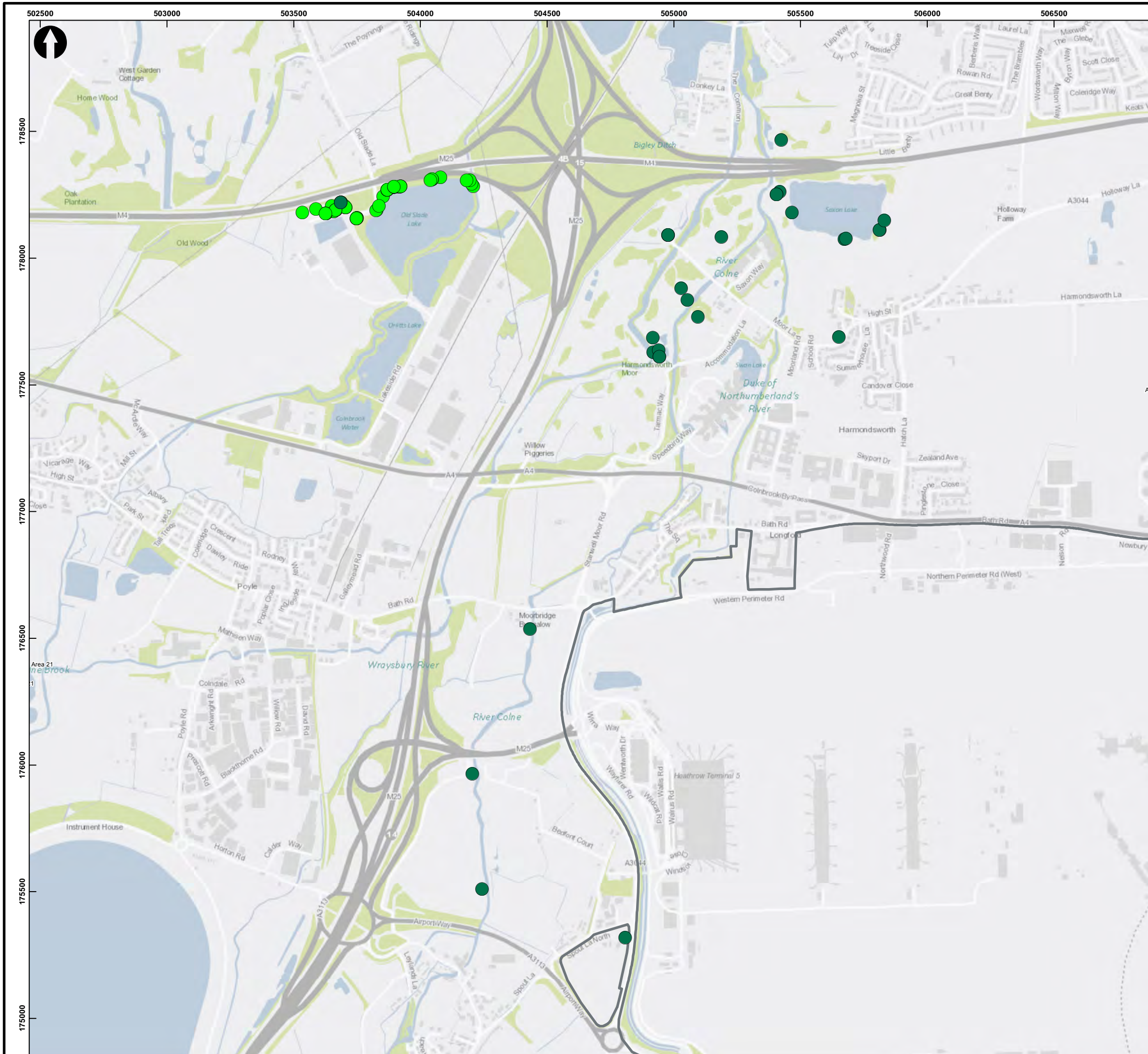


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 6.7: Great crested newt survey results

Company Wood	Drawn By GREES	Chk/Approved ALLMS	Drawn Date 11/05/2018	Status FINAL
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Heathrow Planning Boundary

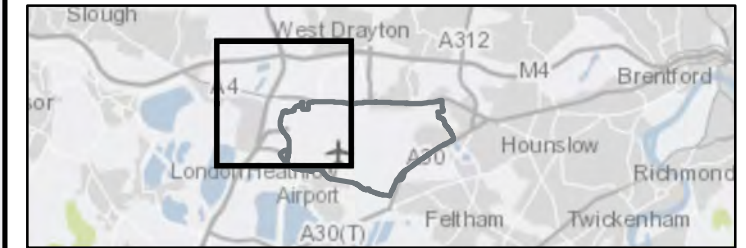
Reptile results

- Grass Snake
- Slow Worm



Scale 1:15,000

Key plan

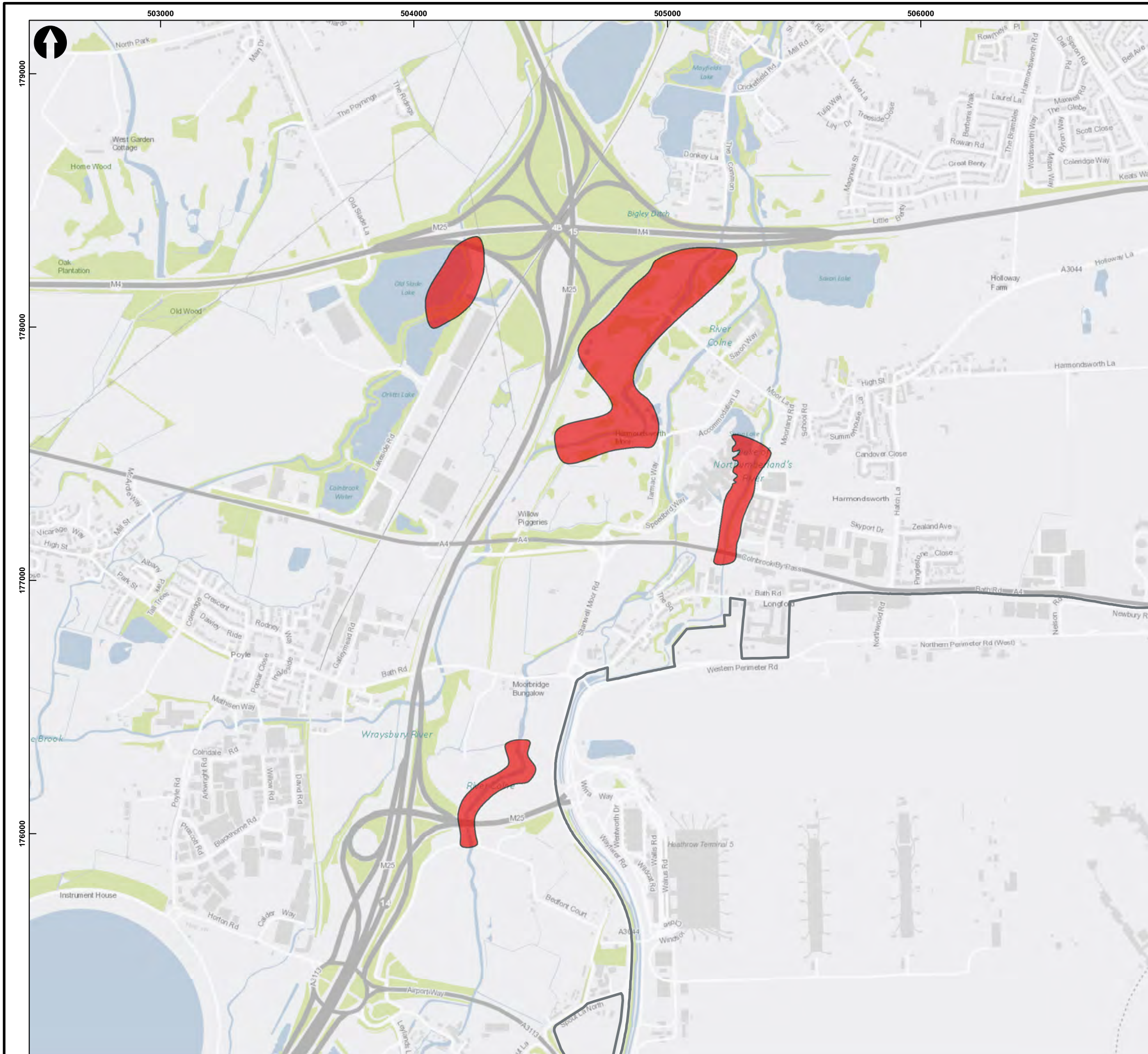


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 6.8: Reptile survey results

Company Wood	Drawn By BUTLS	Chk/Approved CORCR	Drawn Date 11/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000041				Version 1.0



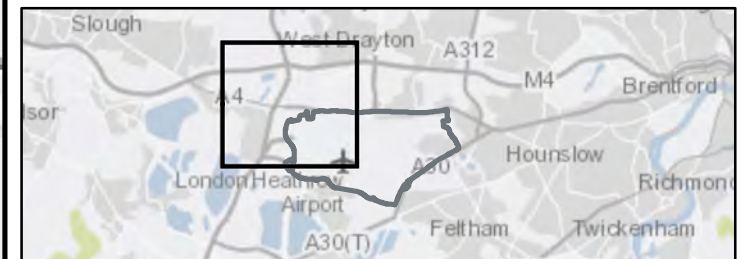
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- Heathrow Planning Boundary
- Area of kingfisher activity



Scale 1:15,000

Key plan

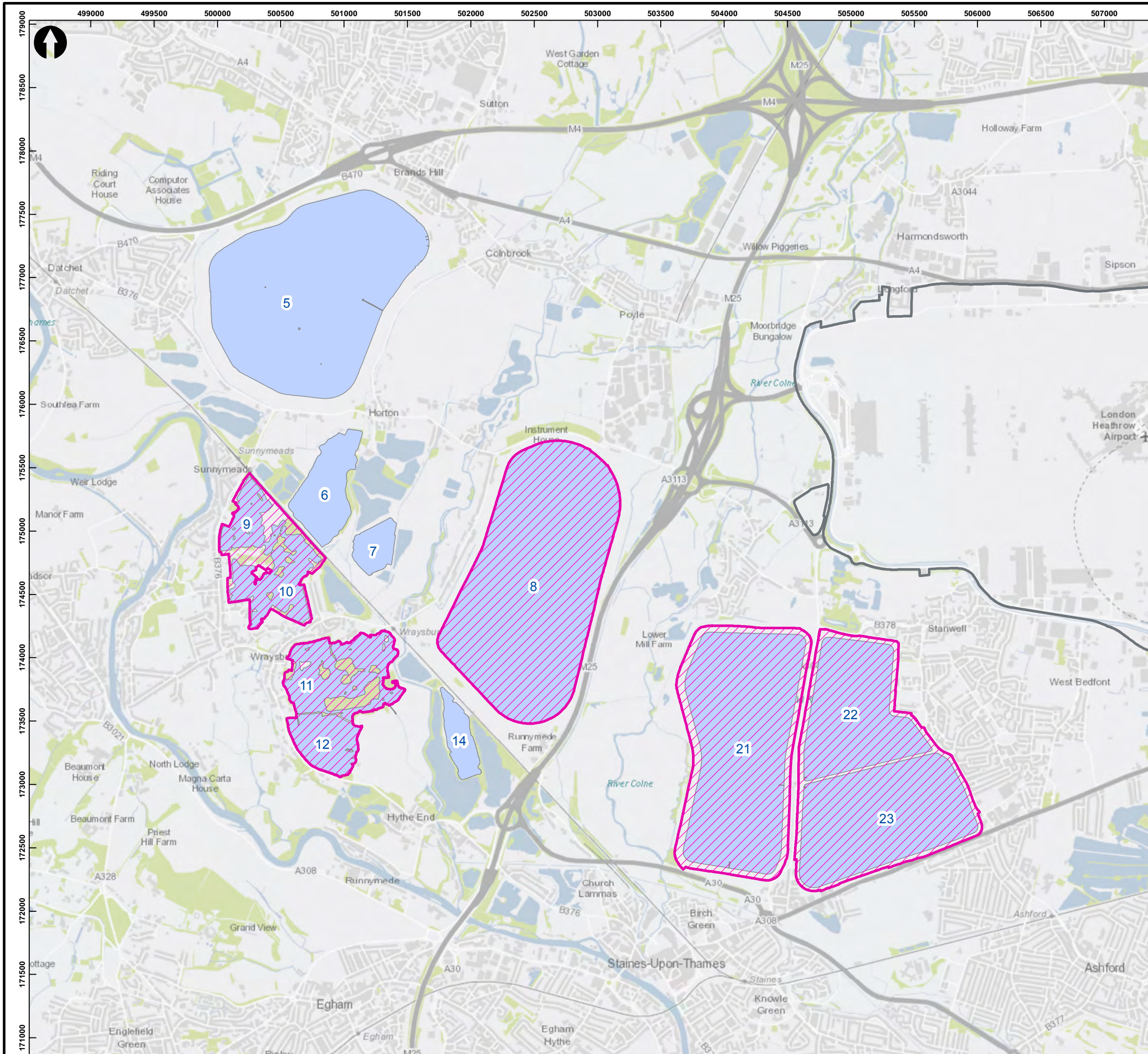


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

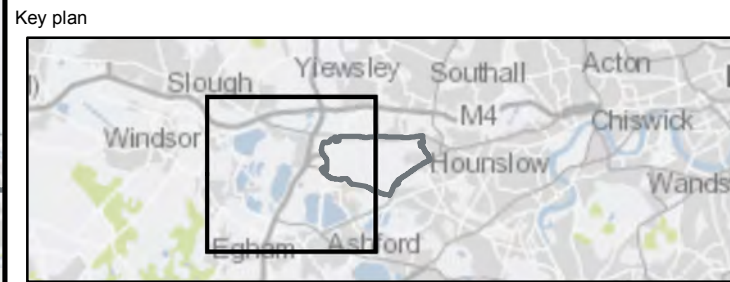
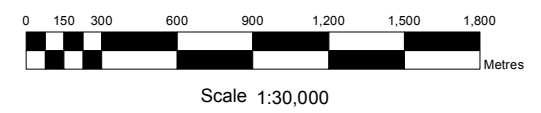
Title
 Figure 6.9: Map showing main areas of kingfisher activity

Company Wood	Drawn By GRES	Chk/Approved KIRBA	Drawn Date 11/05/2018	Status FINAL
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-  Heathrow Planning Boundary
 -  SW London Waterbodies SPA
 -  Disturbance waterbodies (listed below)
- Waterbody reference number and name**
- | | |
|--------------------------------|------------------------------|
| 5 - The Queen Mother Reservoir | 11 - Wraysbury II North |
| 6 - Kingsmead | 12 - Wraysbury II South |
| 7 - Horton South | 14 - Colne Mere |
| 8 - Wraysbury Reservoir | 21 - King George IV |
| 9 - Wraysbury I North | 22 - Staines Reservoir North |
| 10 - Wraysbury I South | 23 - Staines Reservoir South |

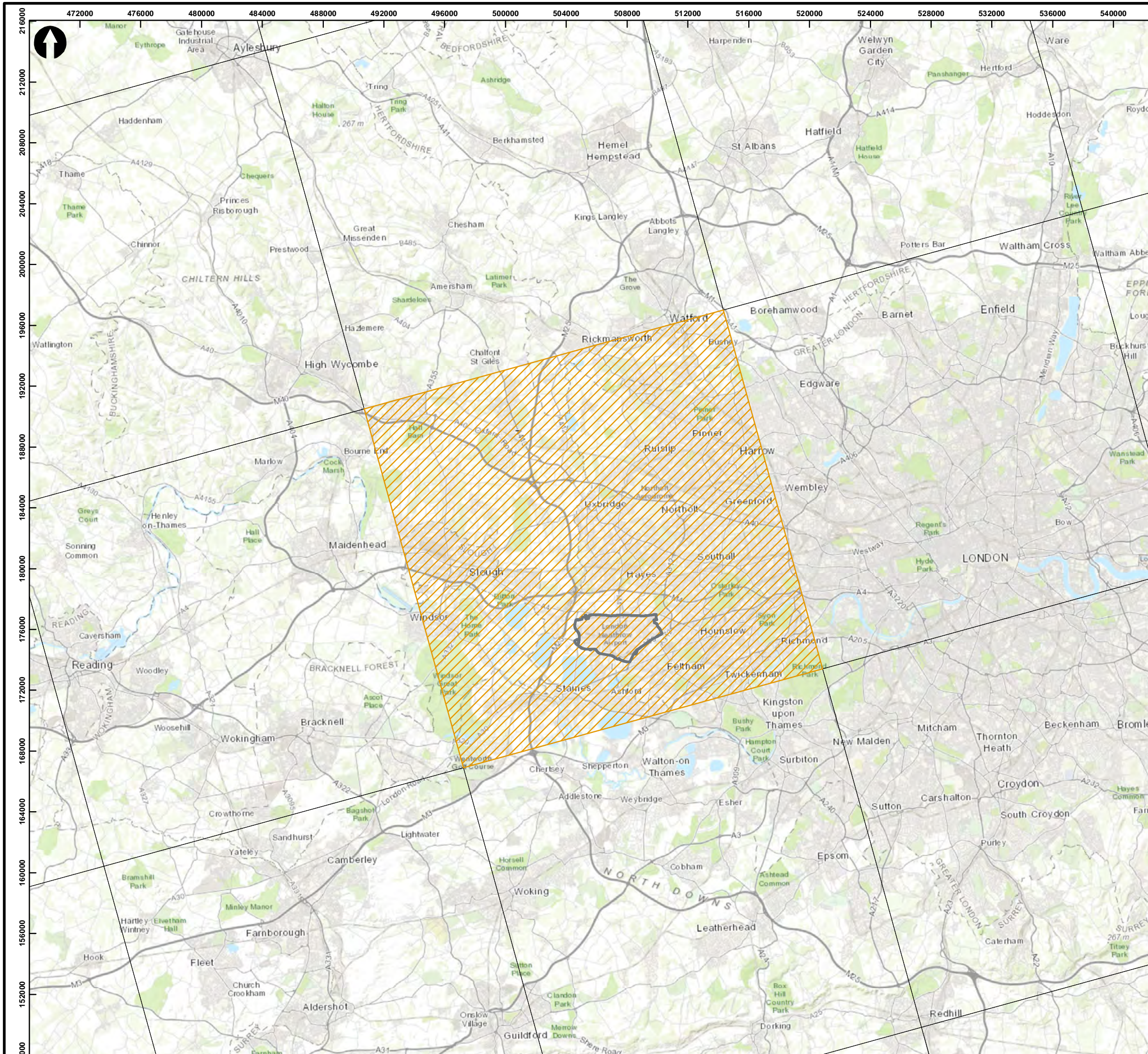


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53




Title
 Figure 6.10: Winter disturbance survey study area 2017/18

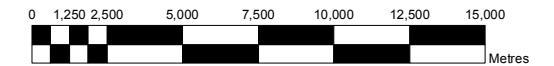
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-  Heathrow Planning Boundary
-  Heathrow UKCP09 Grid
-  UKCP09 25 km² grid



Scale 1:250,000

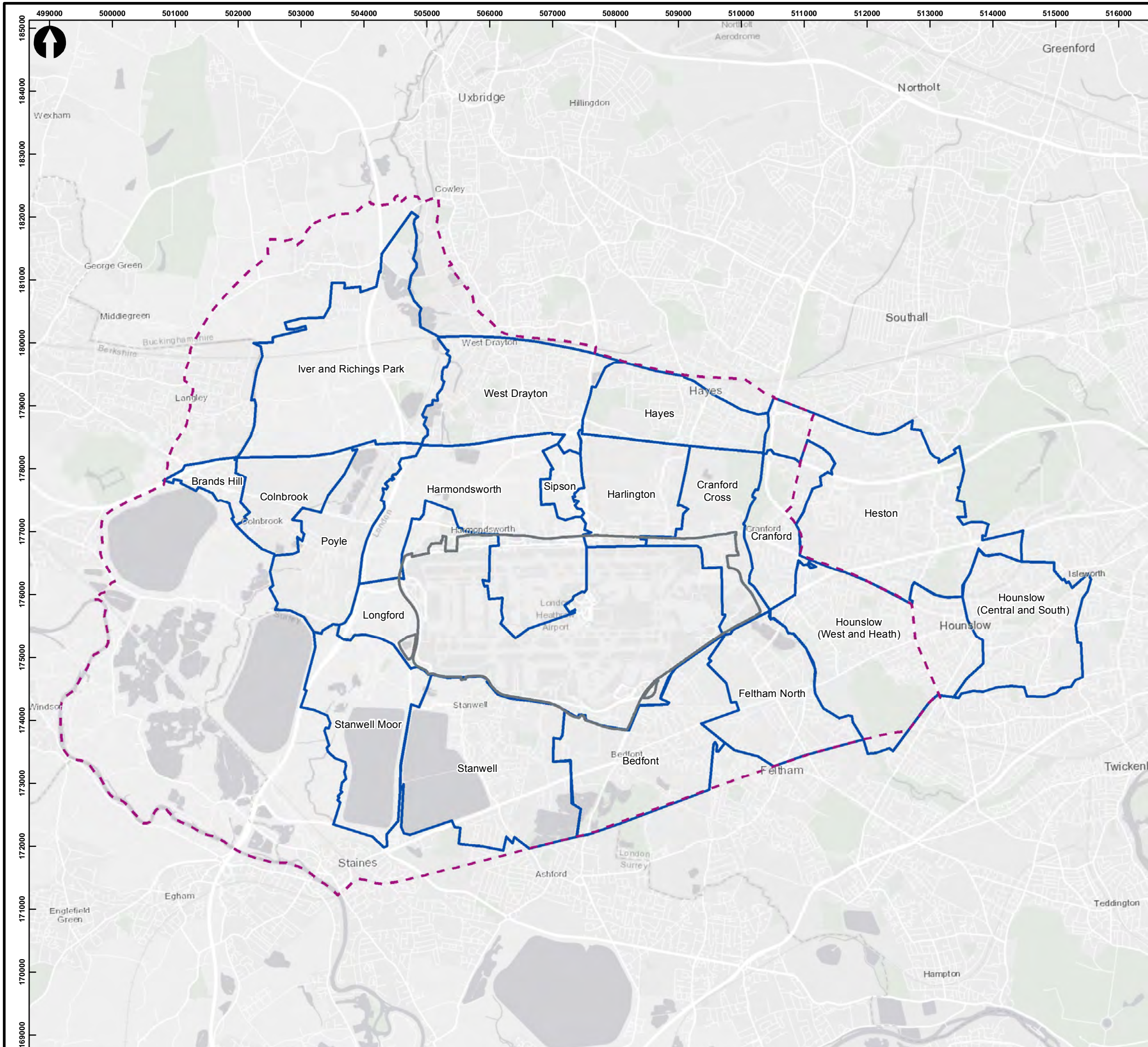
Heathrow

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Title
 Figure 8.1: 25km² UKCP09 grid square for Heathrow Airport

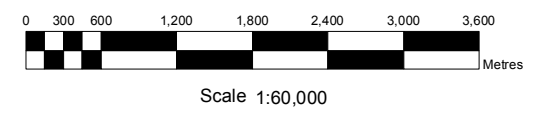
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- Heathrow Planning Boundary
- Recreational spaces and routes study area
- Community areas

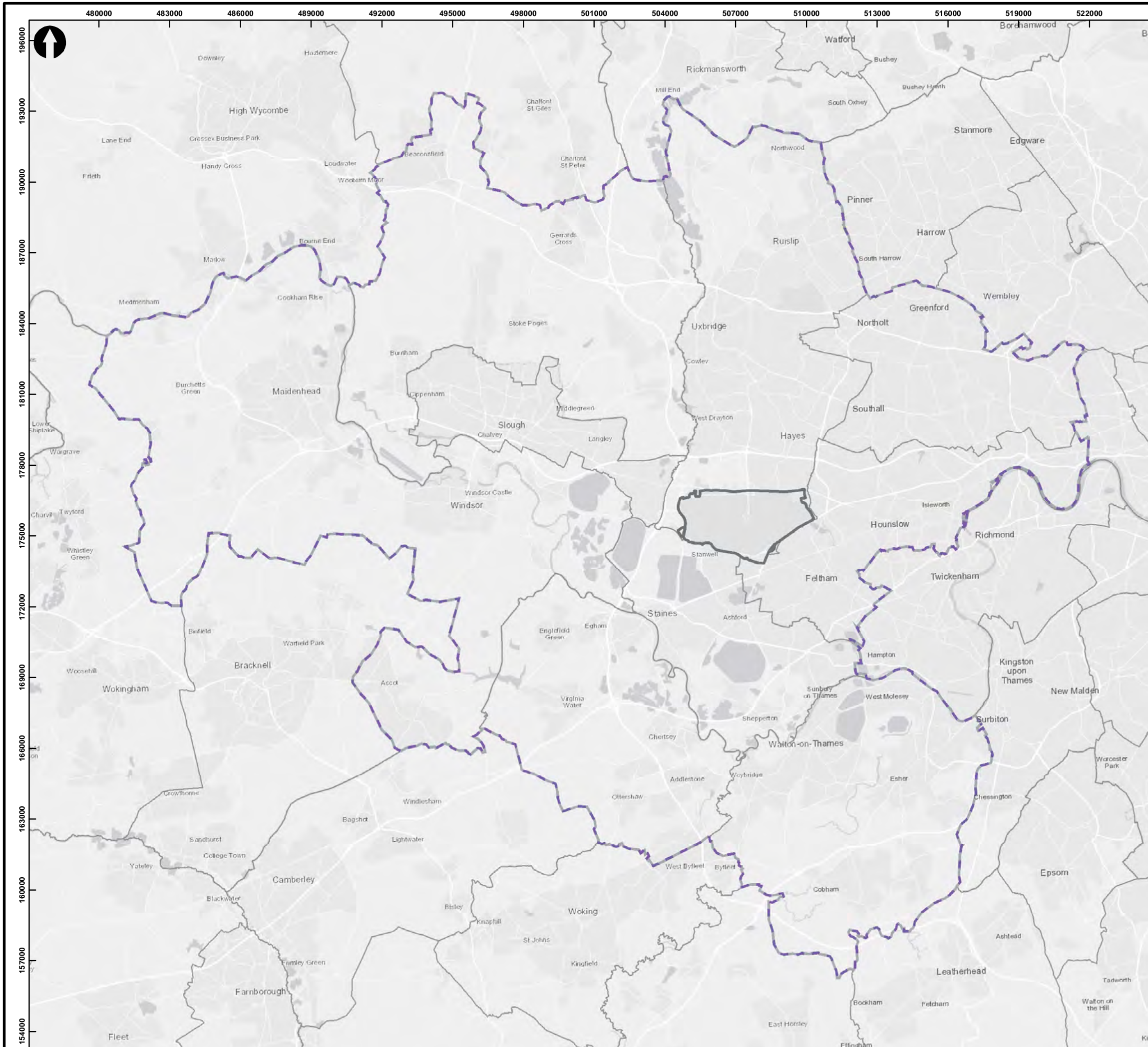


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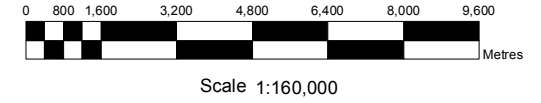
Title
Figure 9.1: Community inner study areas

Company Wood	Drawn By BUTLS	Chk/Approved NOYCA	Drawn Date 10/05/2018	Status FINAL
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-  Heathrow Planning Boundary
-  Wider study area (core study area)
-  Local planning authorities

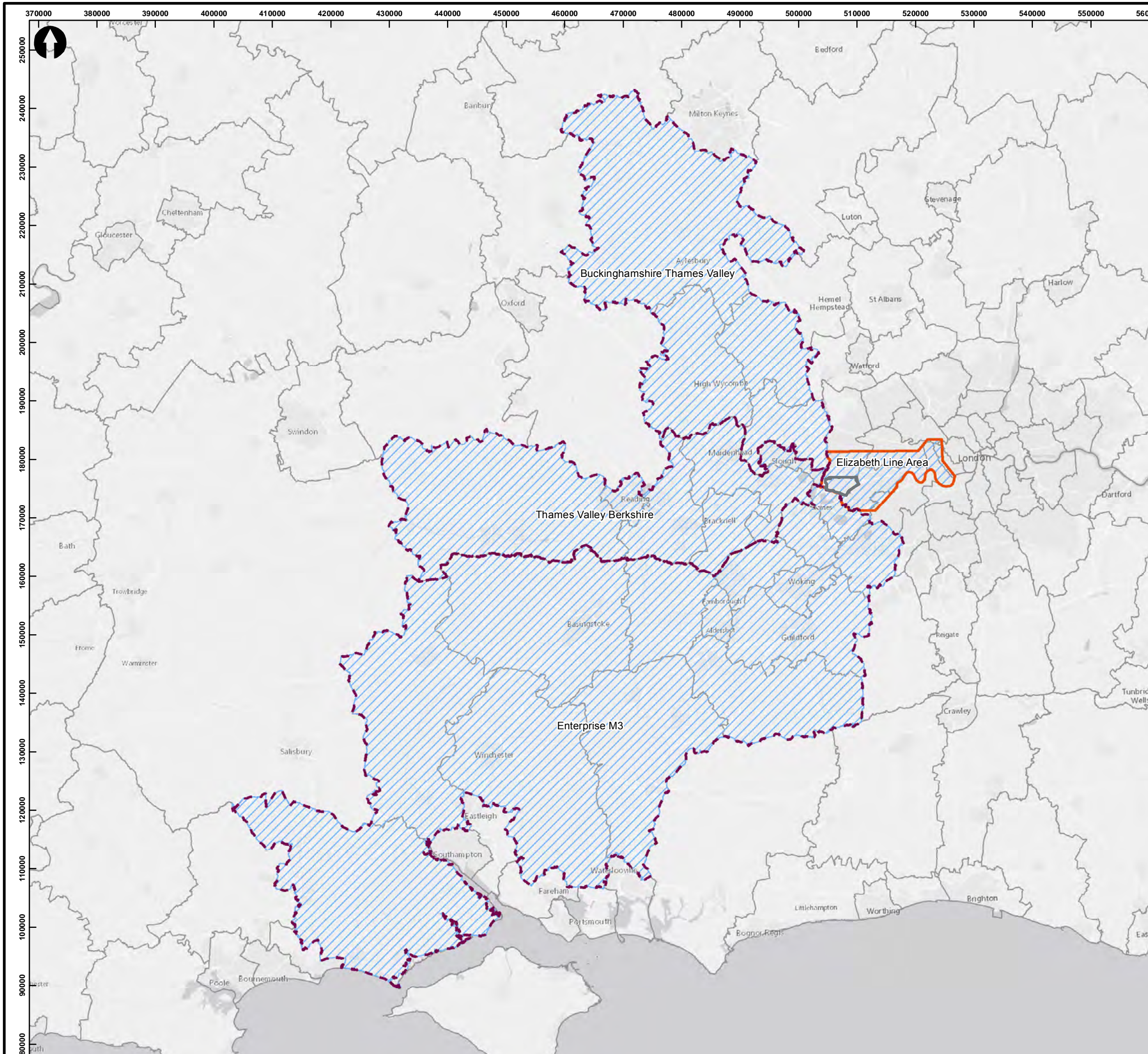


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53






Title
 Figure 10.1: Economics and employment wider study area (core study area)

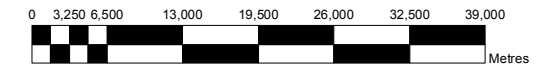
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-  Heathrow Planning Boundary
-  Sub-regional context area combined boundary
-  Local planning authorities
-  Local Enterprise Partnership
-  Elizabeth Line Area (London Plan)



Scale 1:650,000

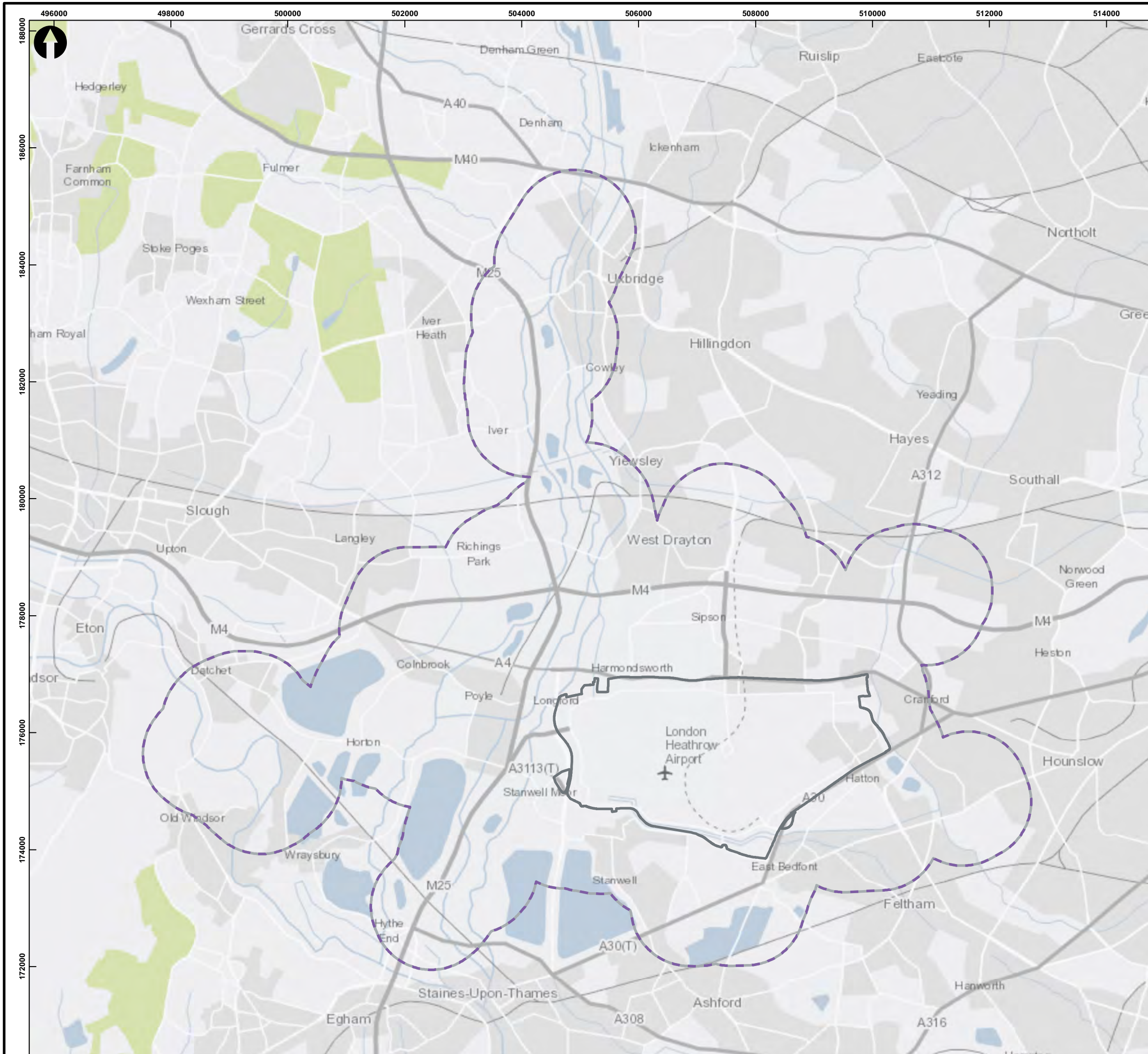
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53



Title
 Figure 10.2: Sub-regional context area

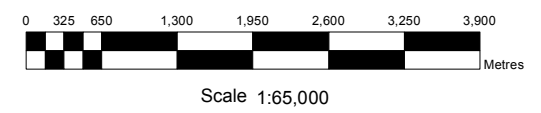
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000047	Version 1.0
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-  Heathrow Planning Boundary
-  Illustrative historic environment core study area

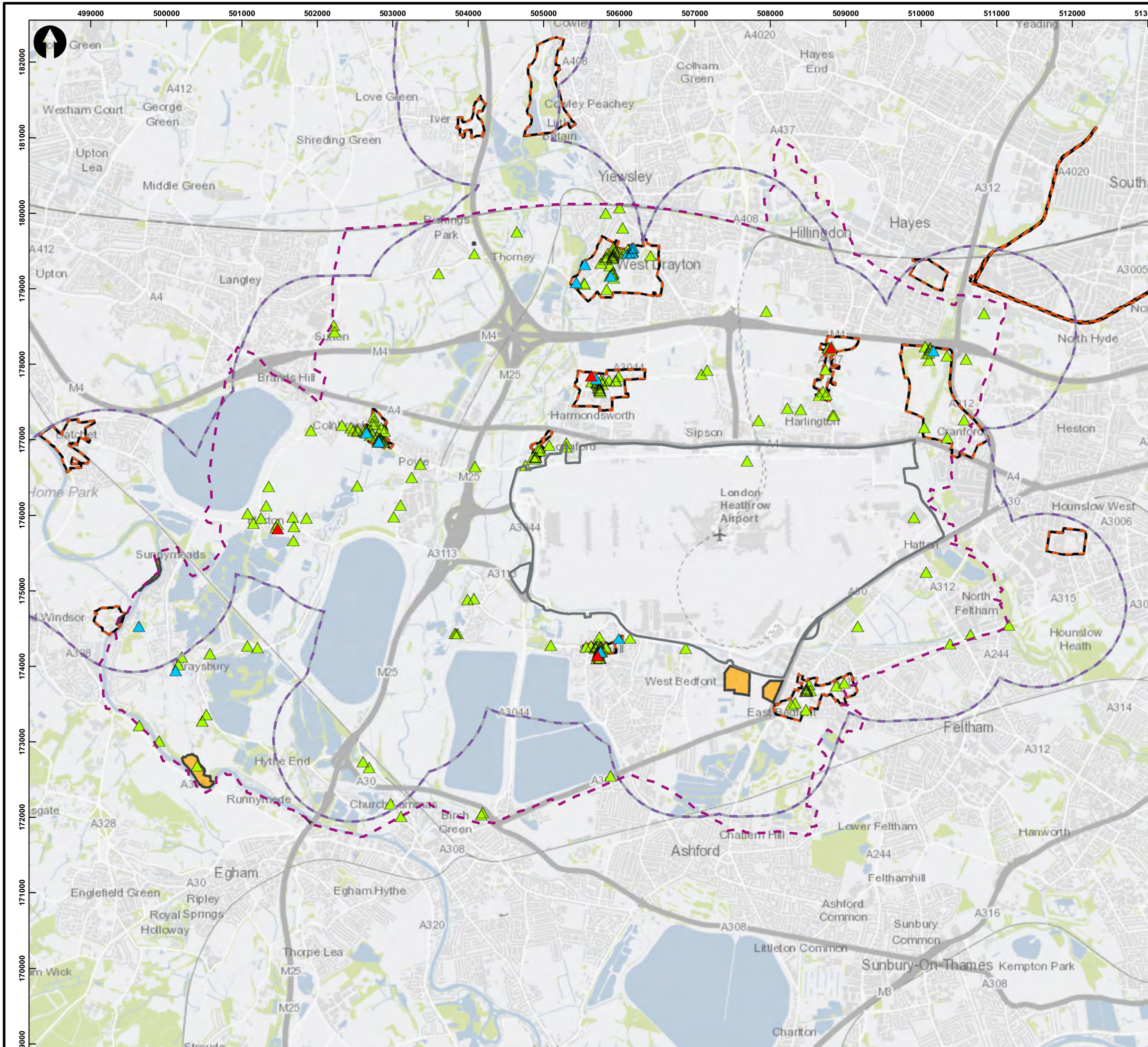


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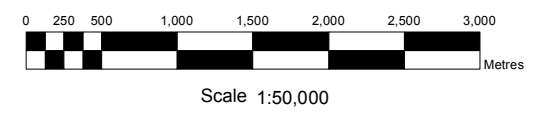
Title
 Figure 11.1: Illustrative historic environment core study area

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000048				Version 1.0



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- Heathrow Planning Boundary
- Illustrative historic environment core study area
- Baseline data collection area to date
- Grade I listed building
- Grade II* listed building
- Grade II listed building
- Scheduled Monument
- Conservation Area

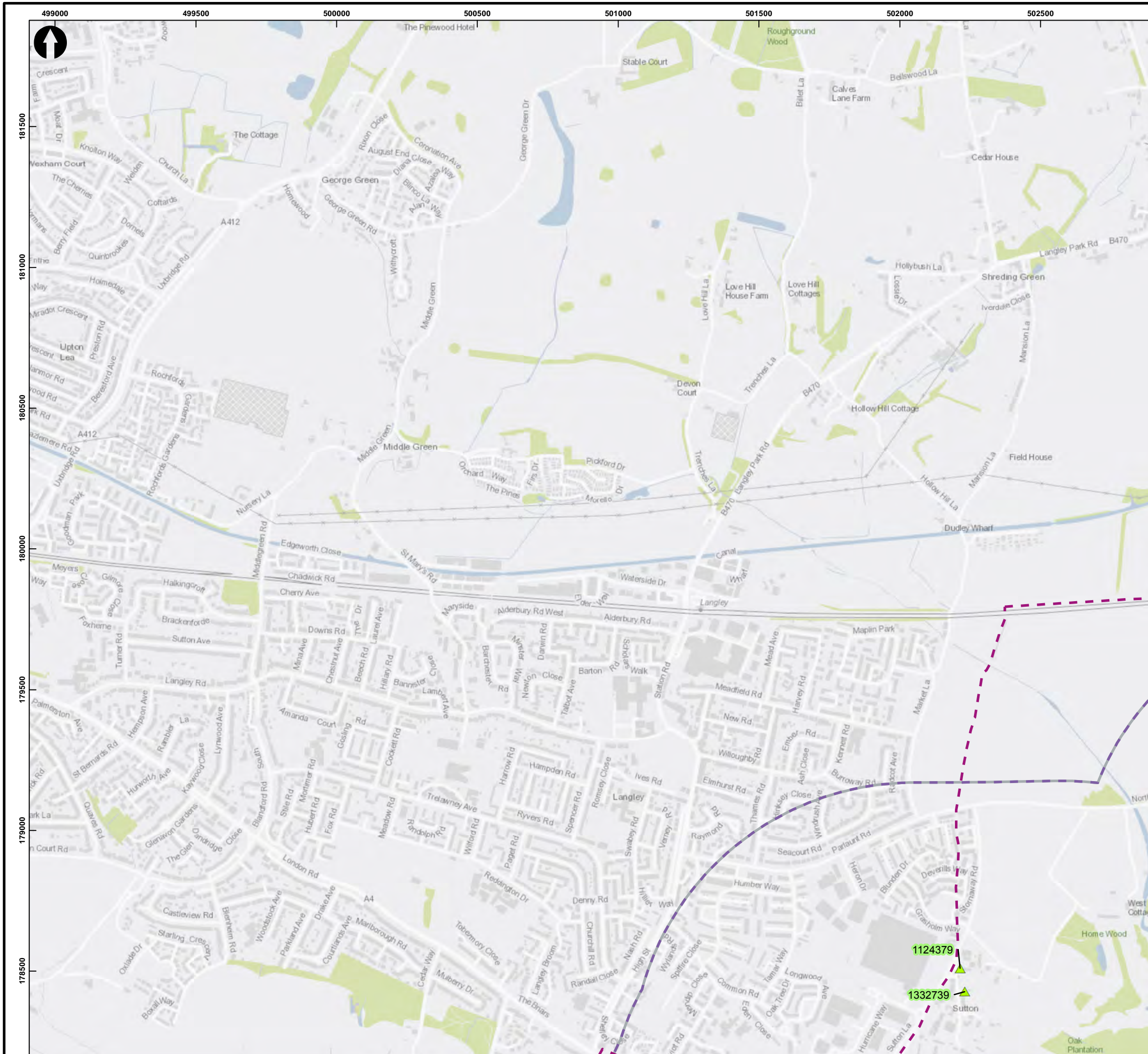


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

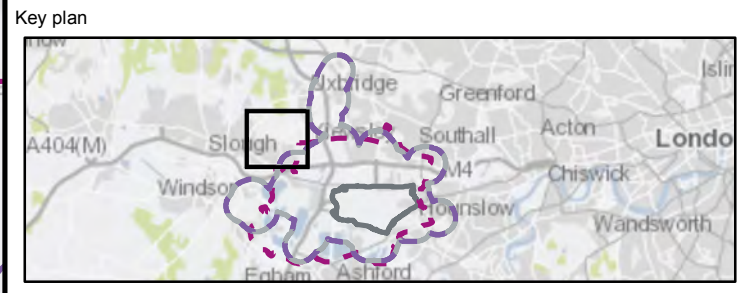
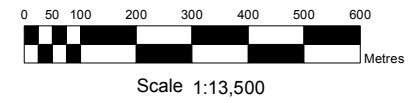
Title
Figure 11.2: Historic environment designated heritage overview

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000049				Version 1.0



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- Heathrow Planning Boundary
- Illustrative historic environment core study area
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- Grade II listed building
- Scheduled Monument
- Conservation Area

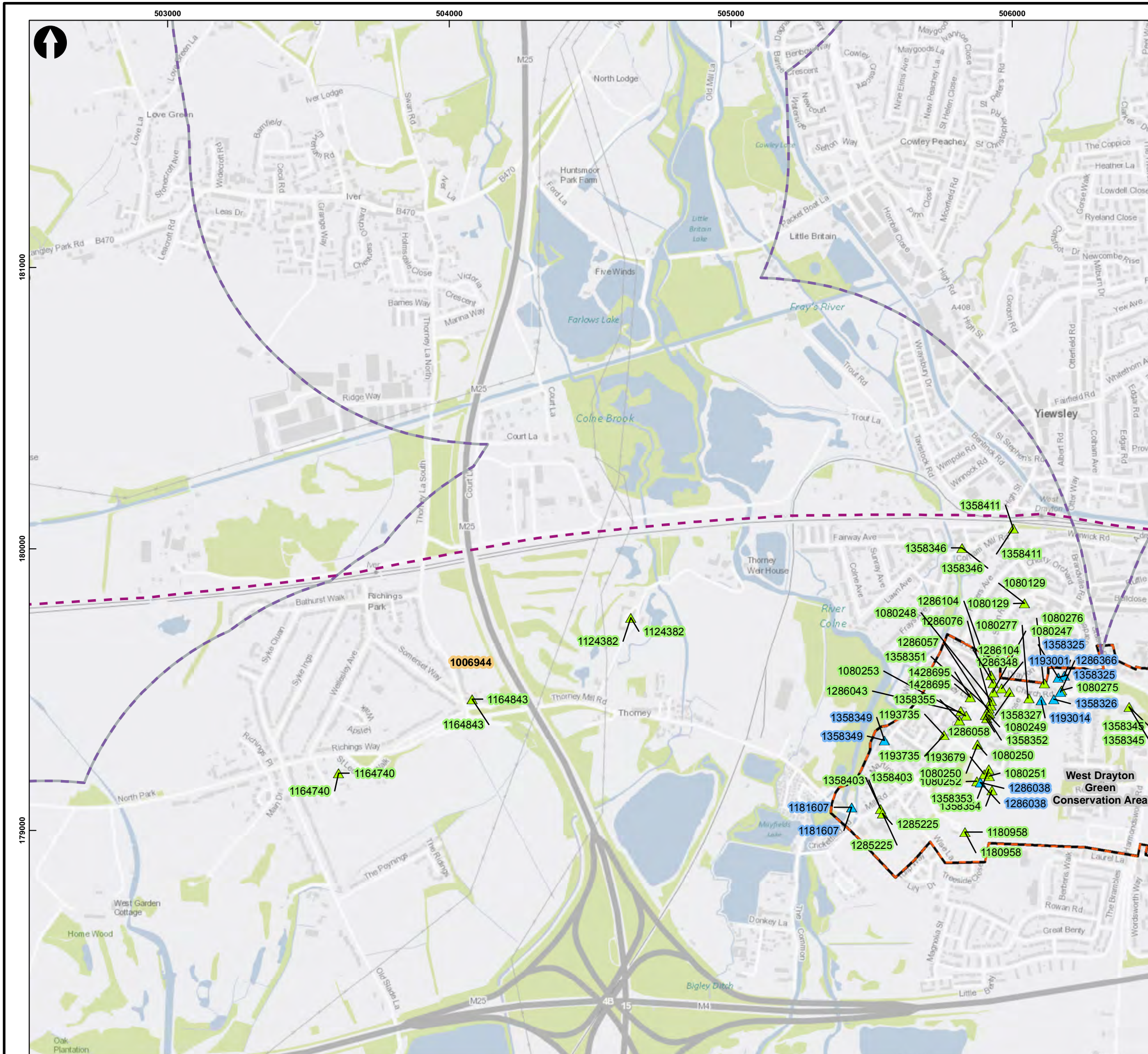


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

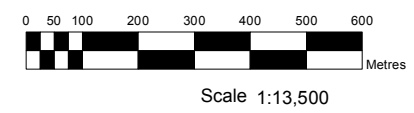
Title
Figure 11.3: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000050				Version 1.0

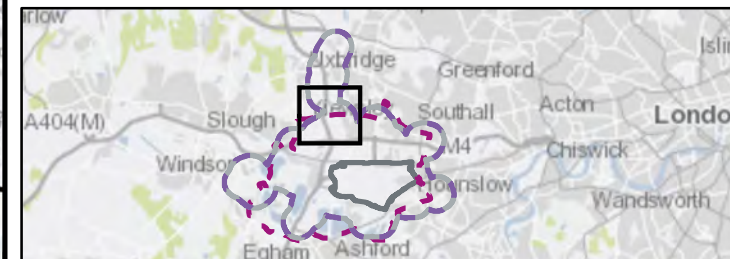


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- Heathrow Planning Boundary
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- Grade II listed building
- Scheduled Monument
- Conservation Area



Key plan

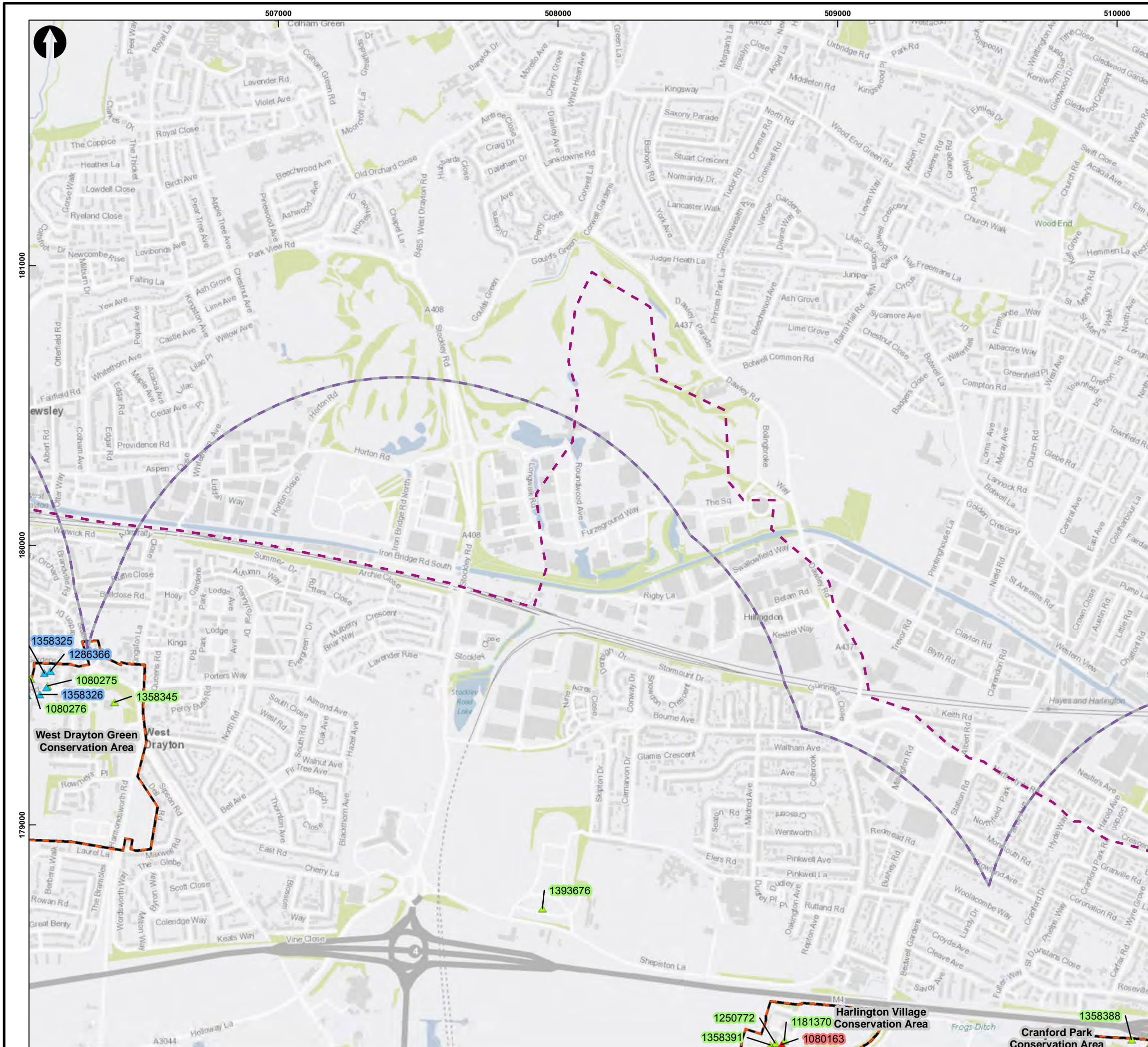


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

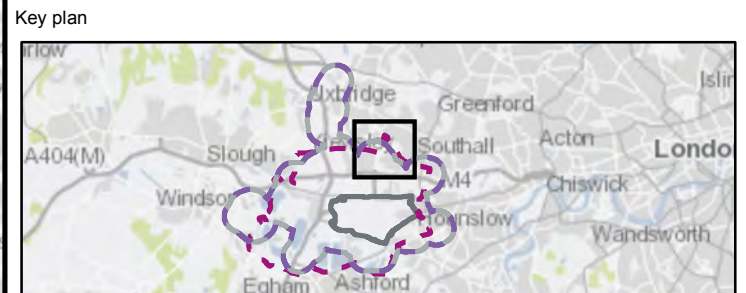
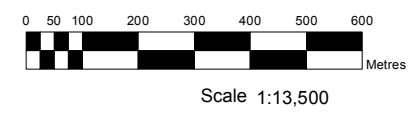
Title
Figure 11.4: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000051				Version 1.0



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- Heathrow Planning Boundary
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- Grade II* listed building
- Grade II listed building
- Scheduled Monument
- Conservation Area

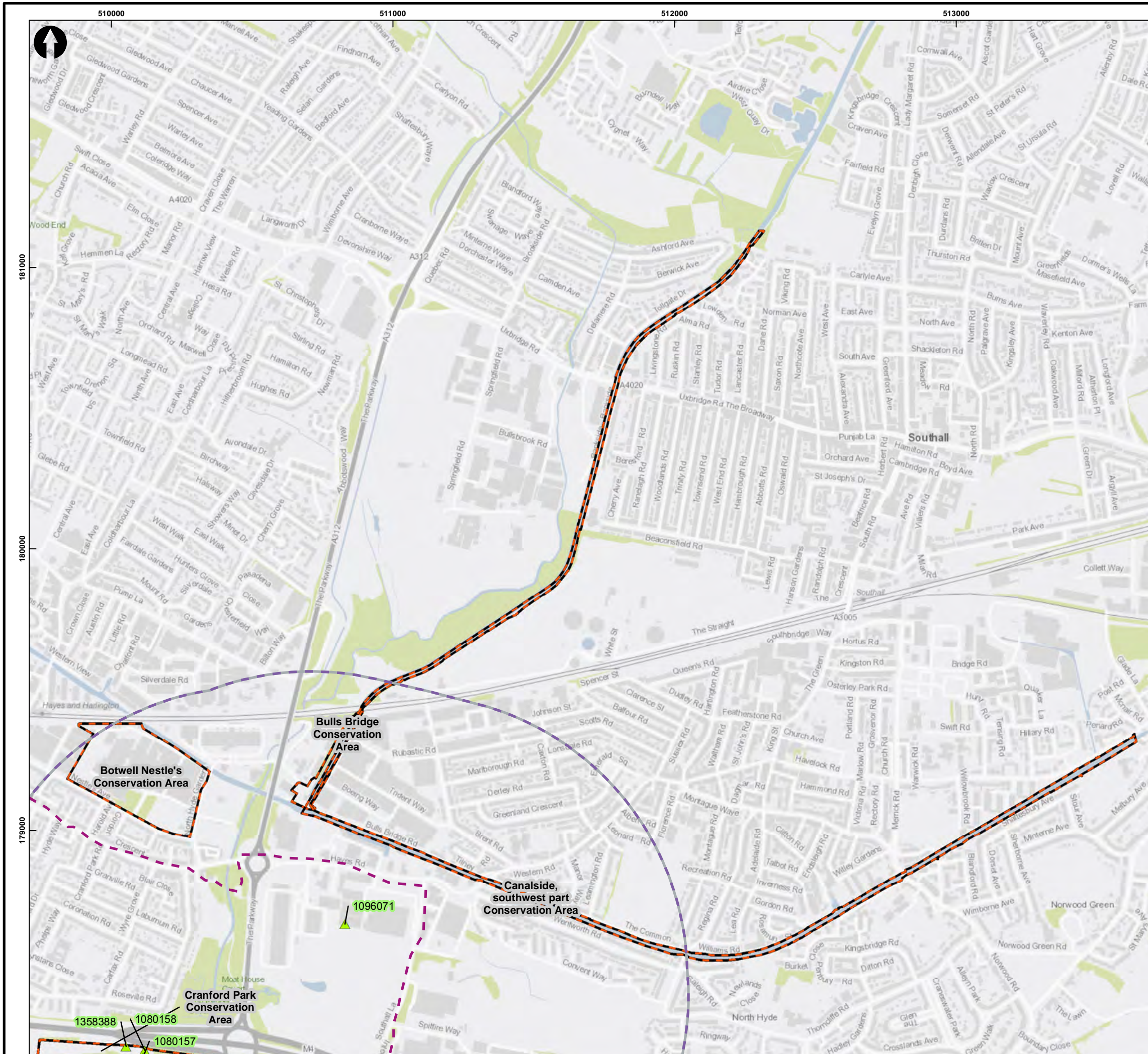


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

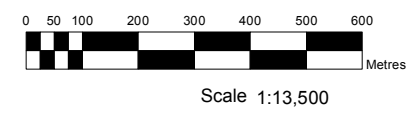
Title
 Figure 11.5: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000052				Version 1.0

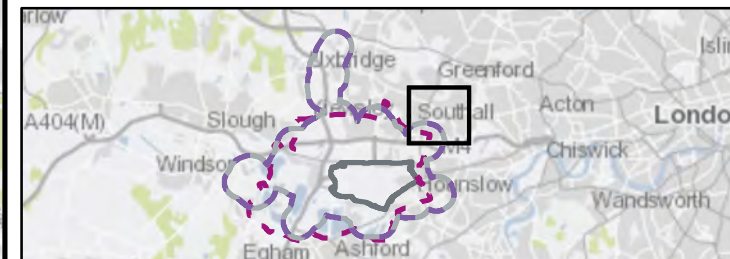


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- Grade II listed building
- Scheduled Monument
- Conservation Area



Key plan

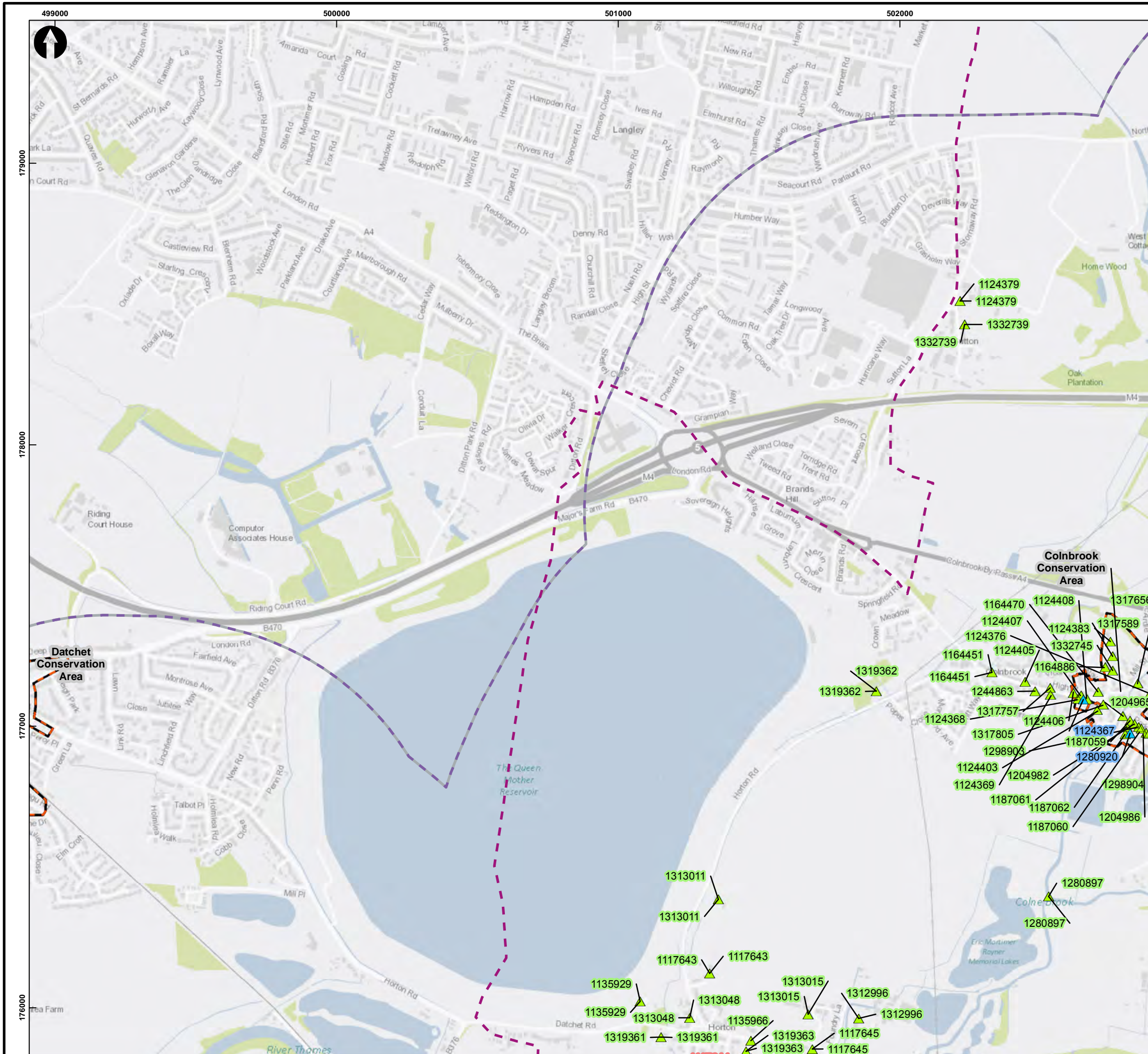


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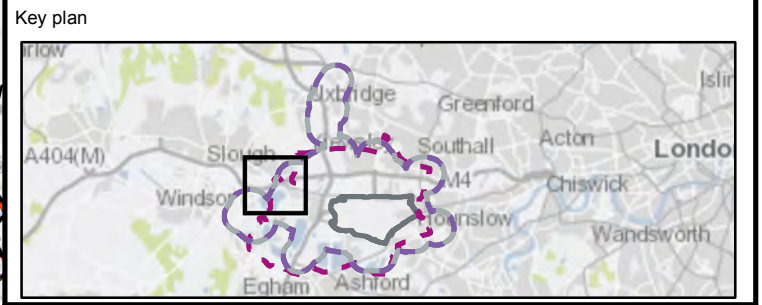
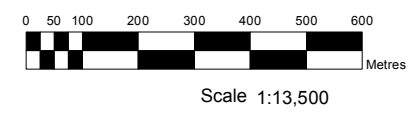
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 Figure 11.6: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000053				Version 1.0



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- Grade II listed building
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- Conservation Area

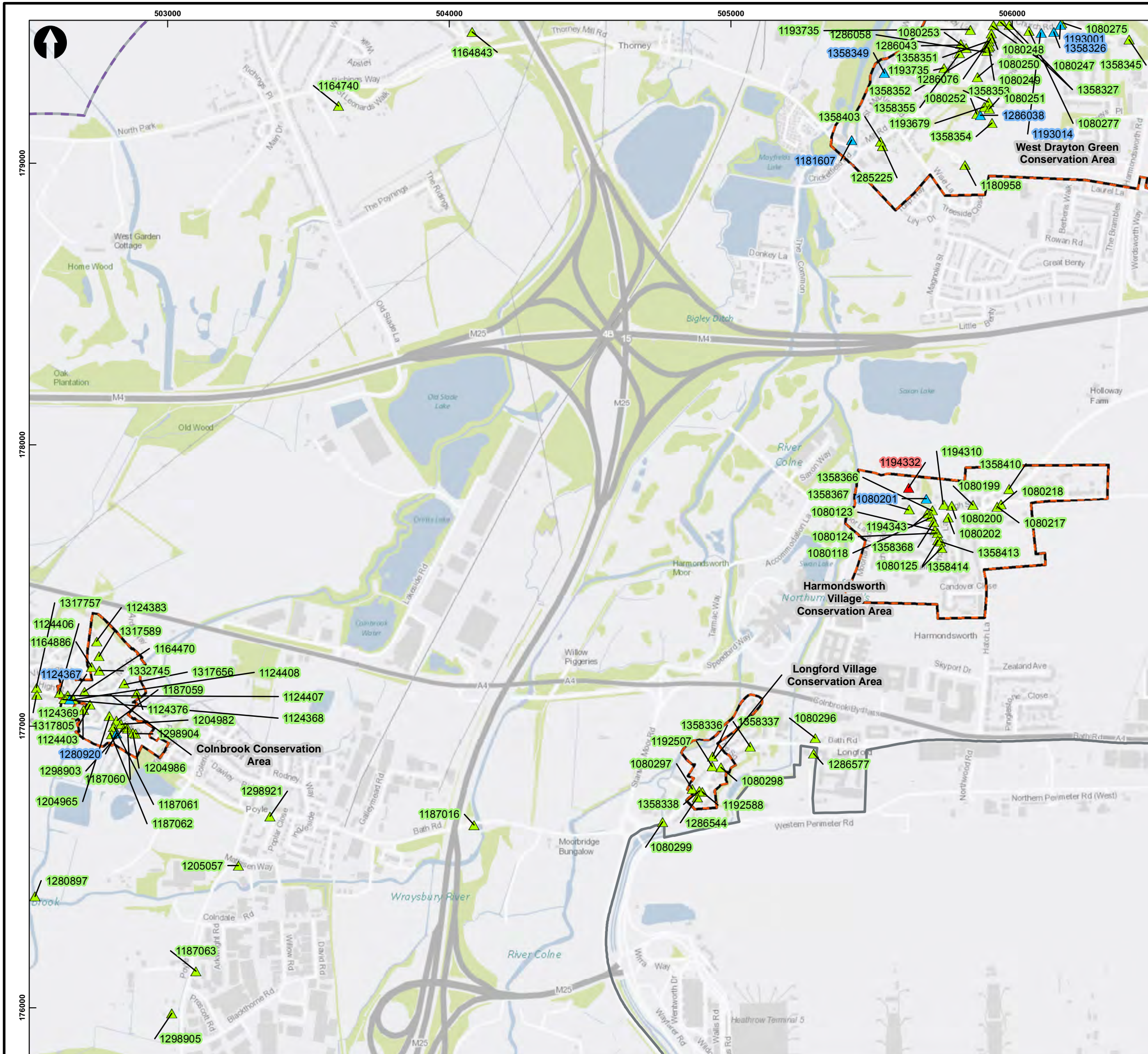


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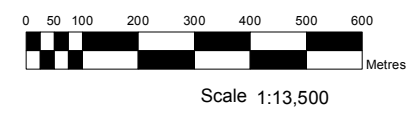
Title
Figure 11.7: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000054				Version 1.0

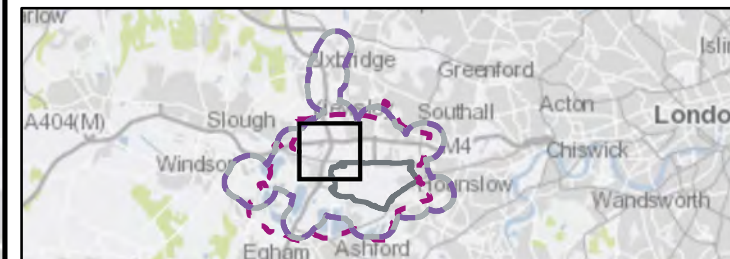


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- Grade II listed building
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- Conservation Area

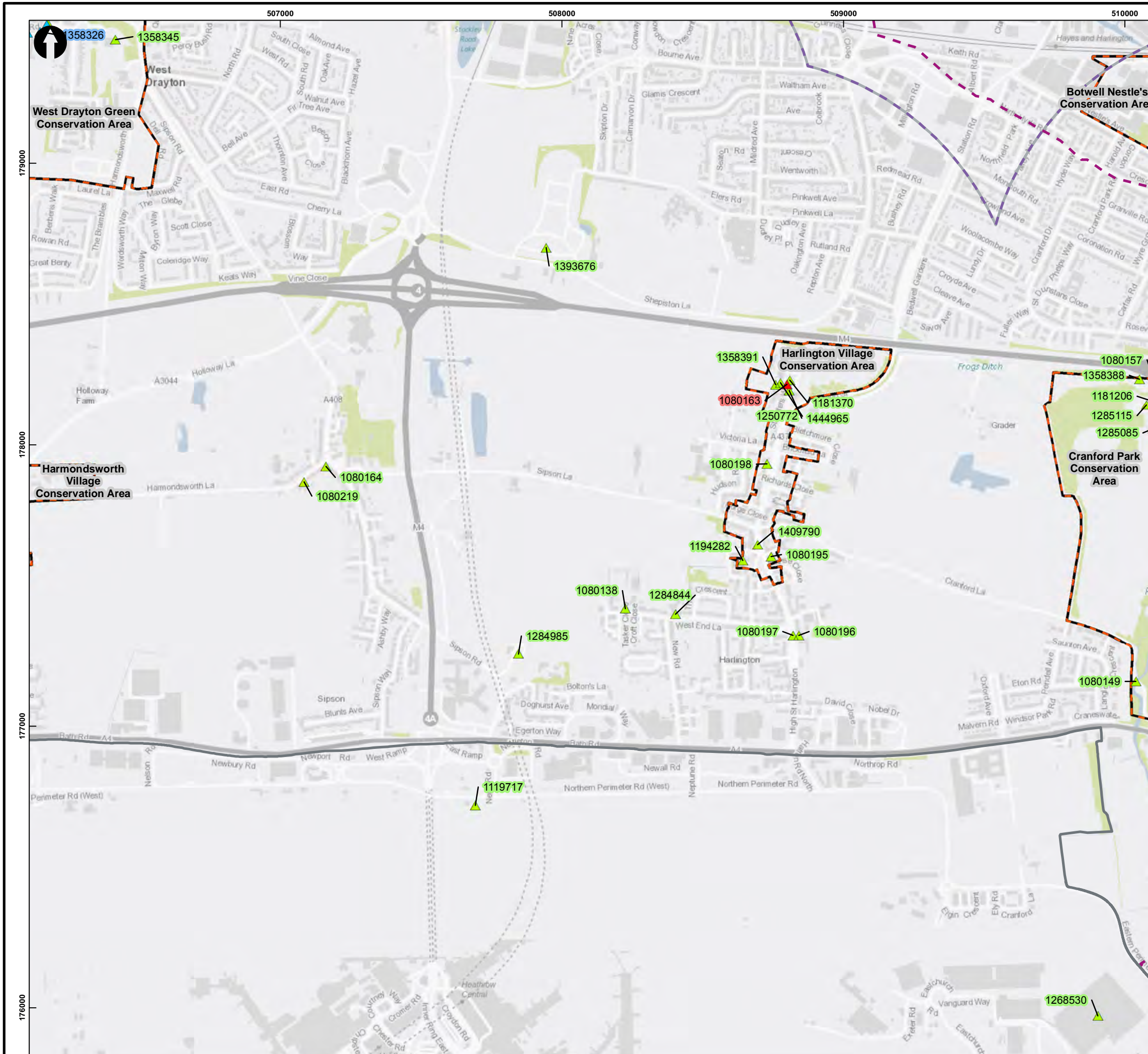


Key plan



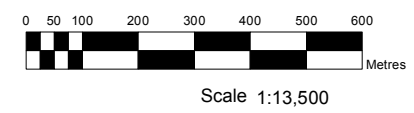
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Title Figure 11.8: Initial Historic Environment designated heritage			
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000055			Status FINAL
			Version 1.0

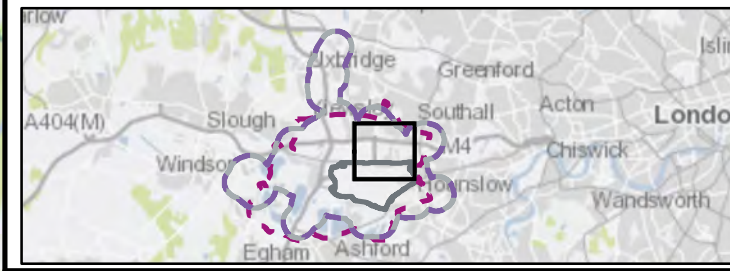


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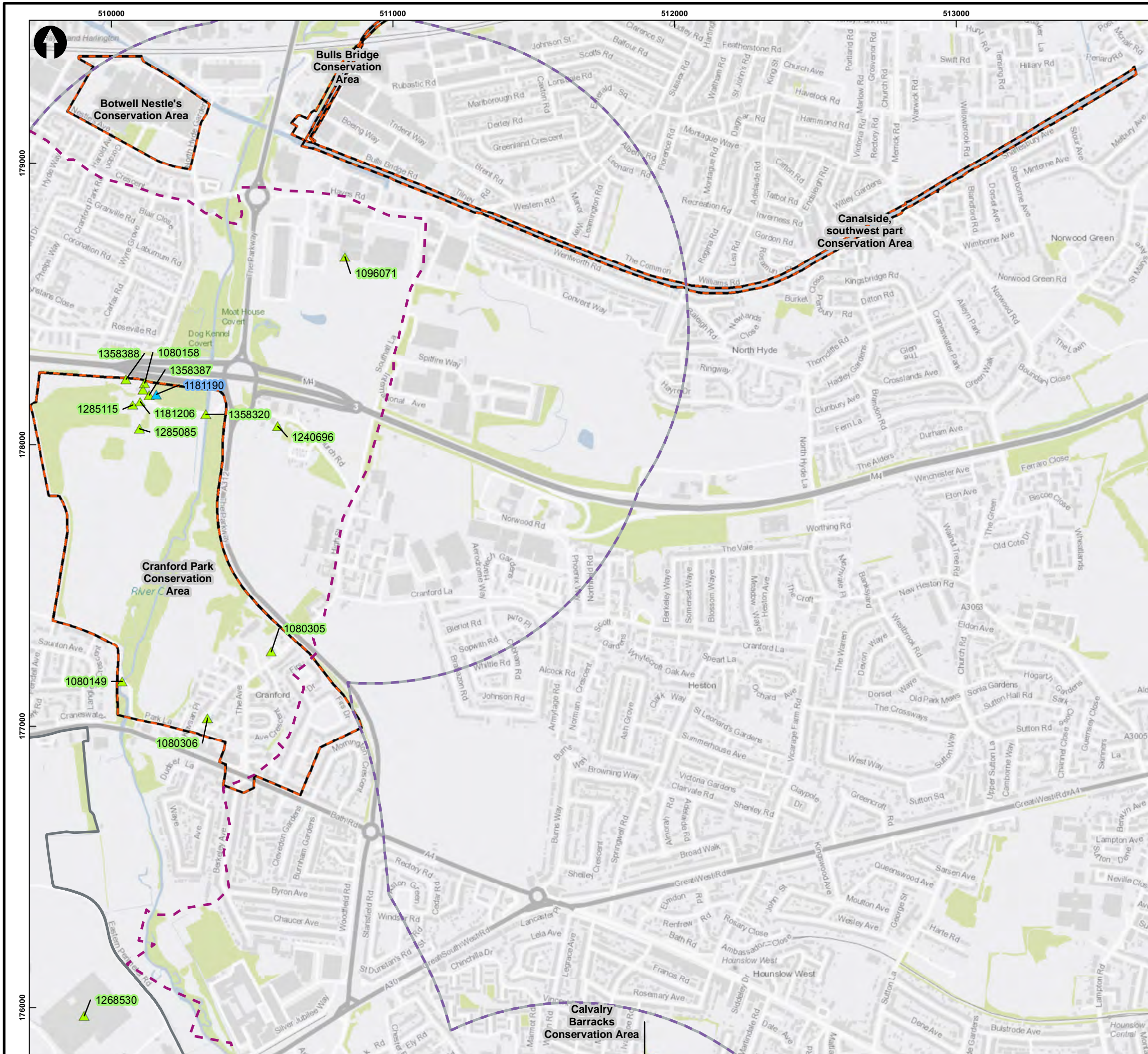


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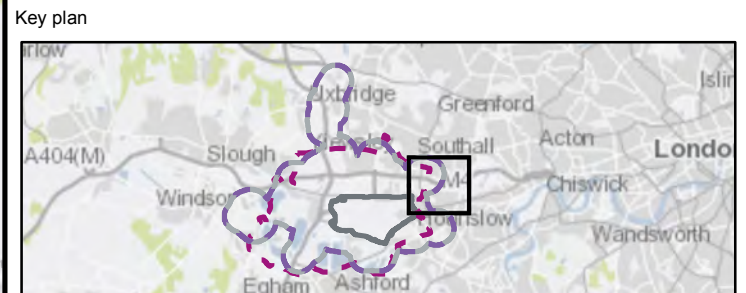
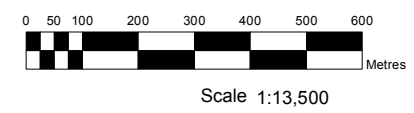
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Title Figure 11.9: Initial Historic Environment designated heritage				
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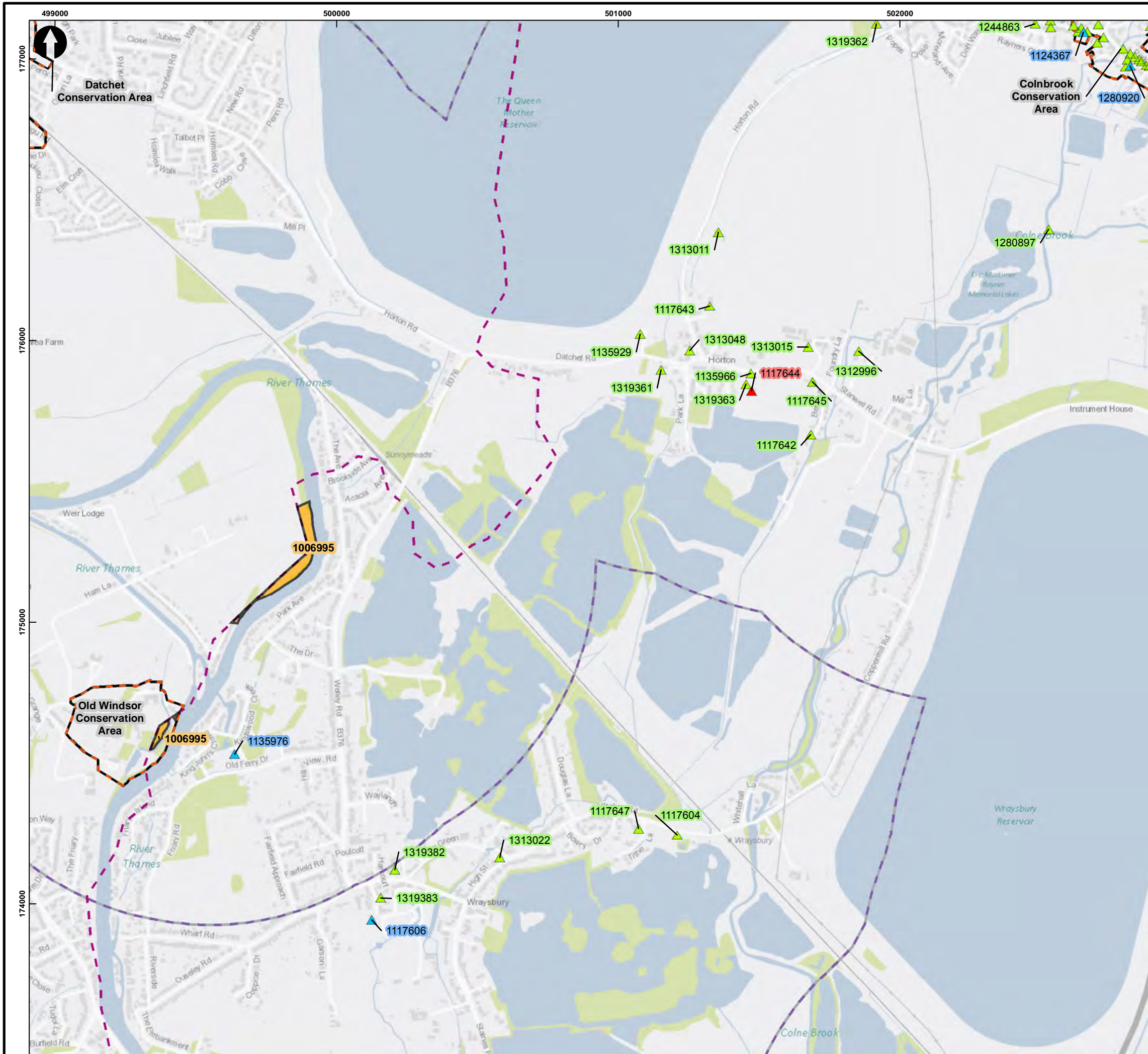


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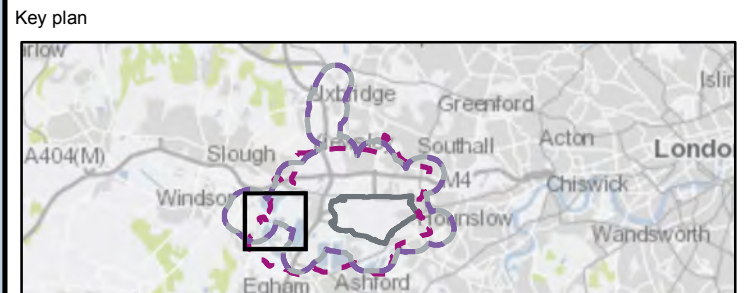
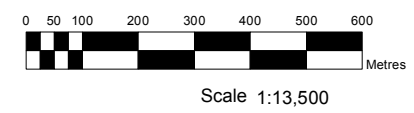
Title
 Figure 11.10: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
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- Conservation Area

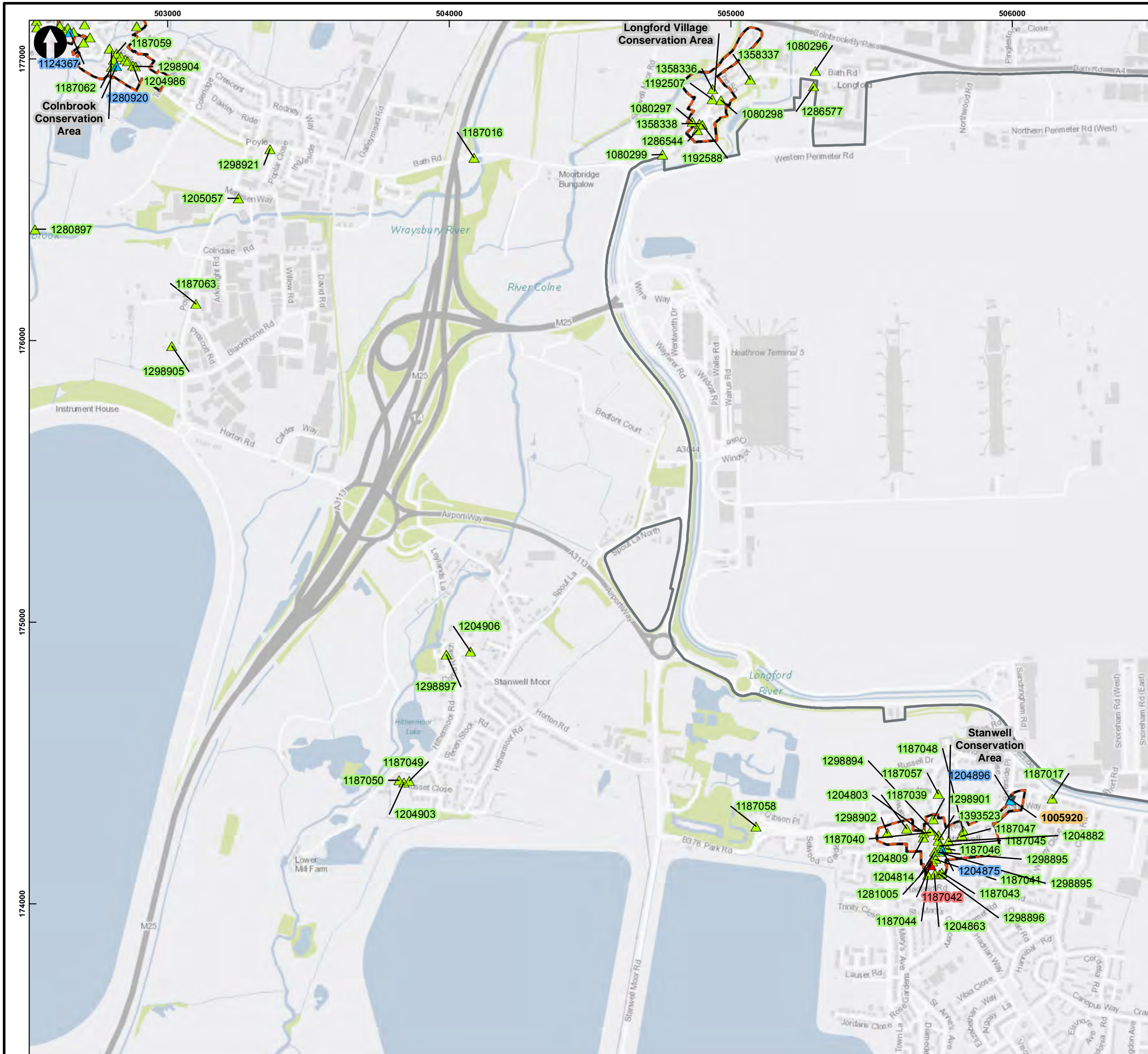


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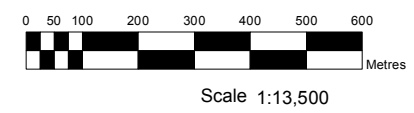
Title
 Figure 11.11: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
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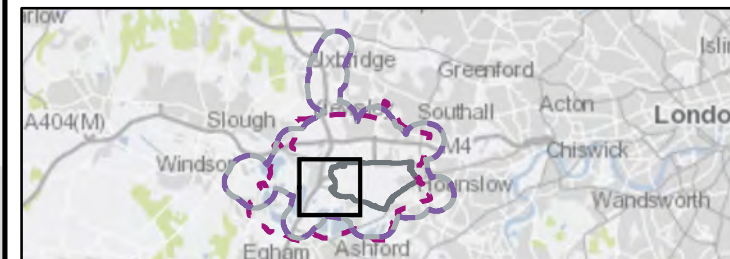


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- Grade II listed building
- Scheduled Monument
- Conservation Area



Key plan

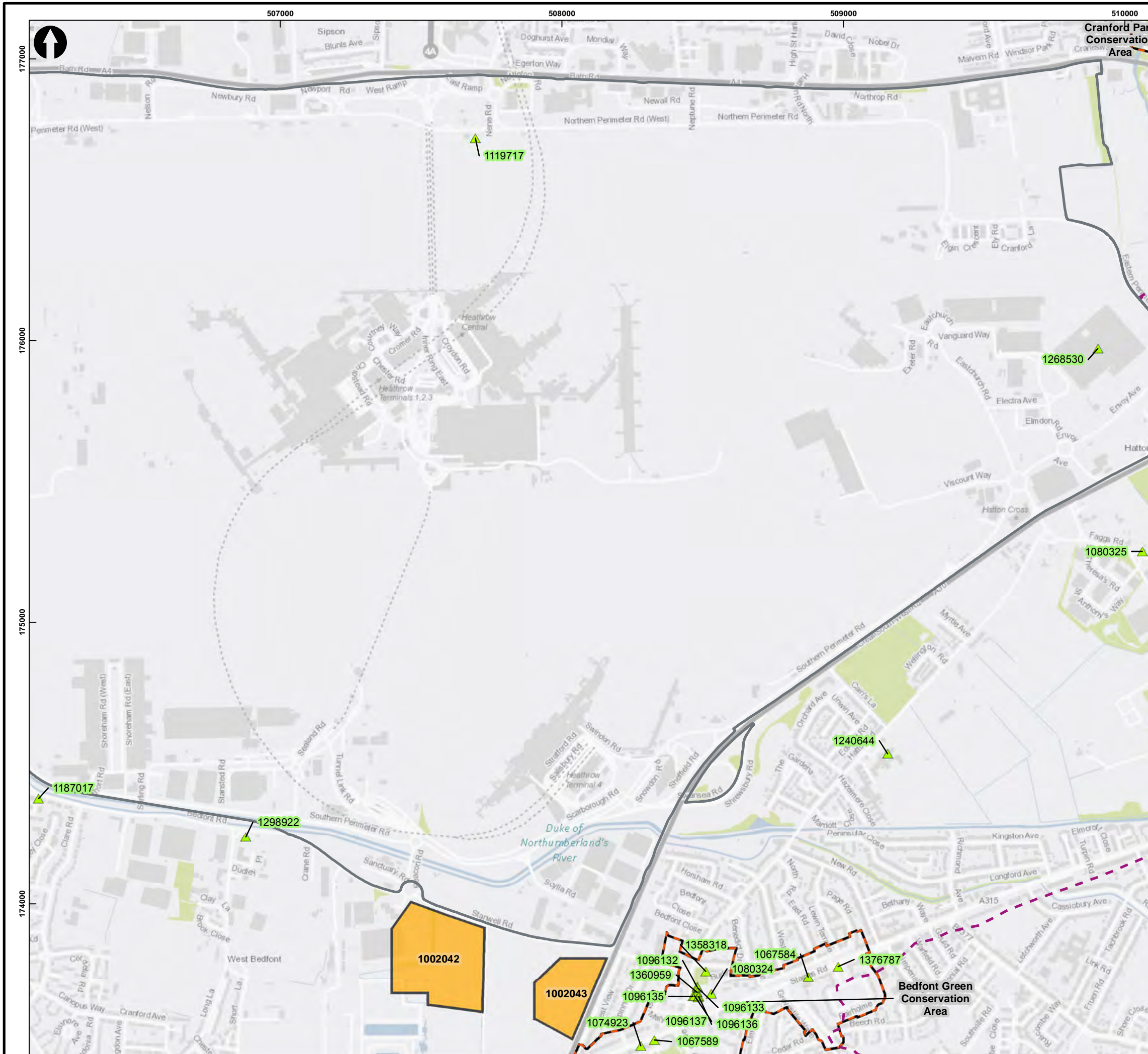


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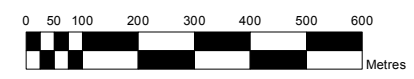
Title
 Figure 11.12: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000059				Version 1.0



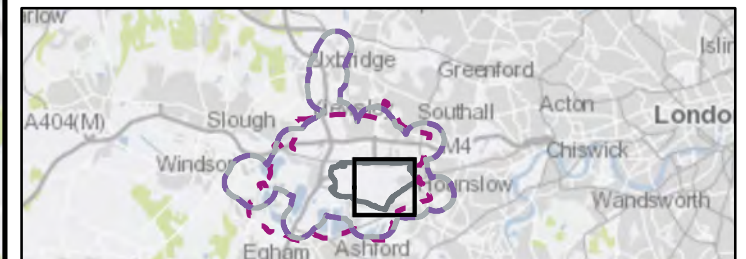
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- Grade II listed building
- Scheduled Monument
- Conservation Area



Scale 1:13,500

Key plan

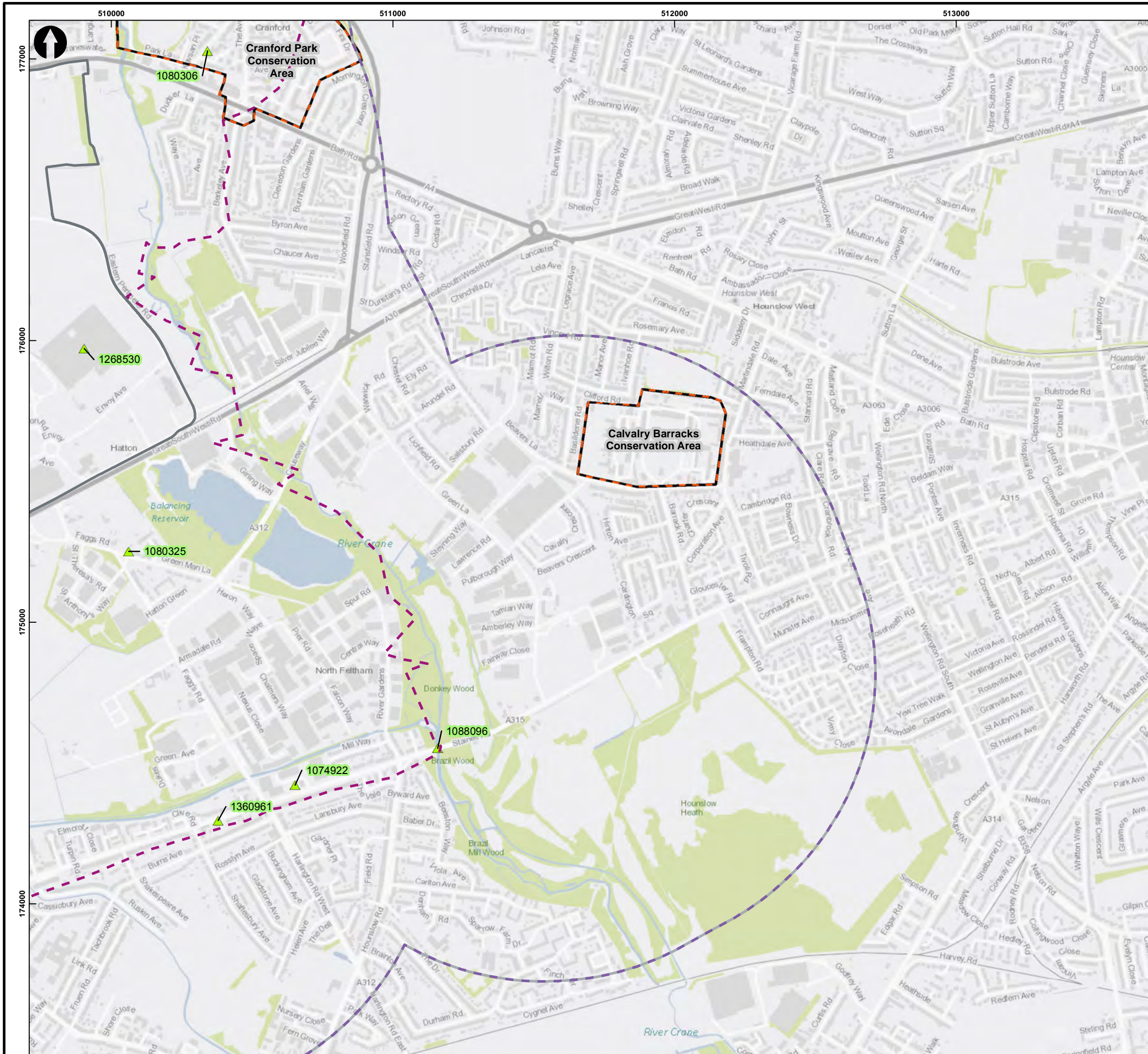


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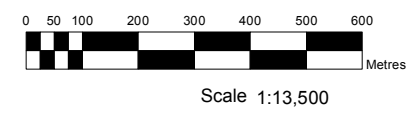
Title
 Figure 11.13: Initial Historic Environment designated heritage

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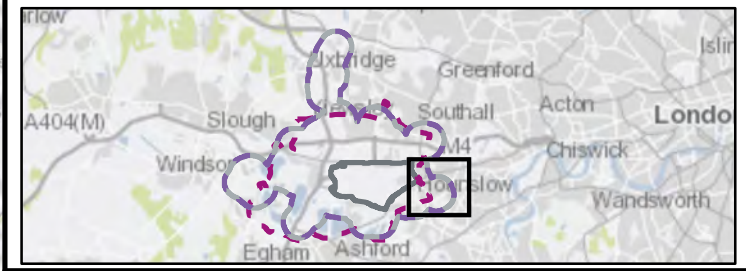


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Key plan

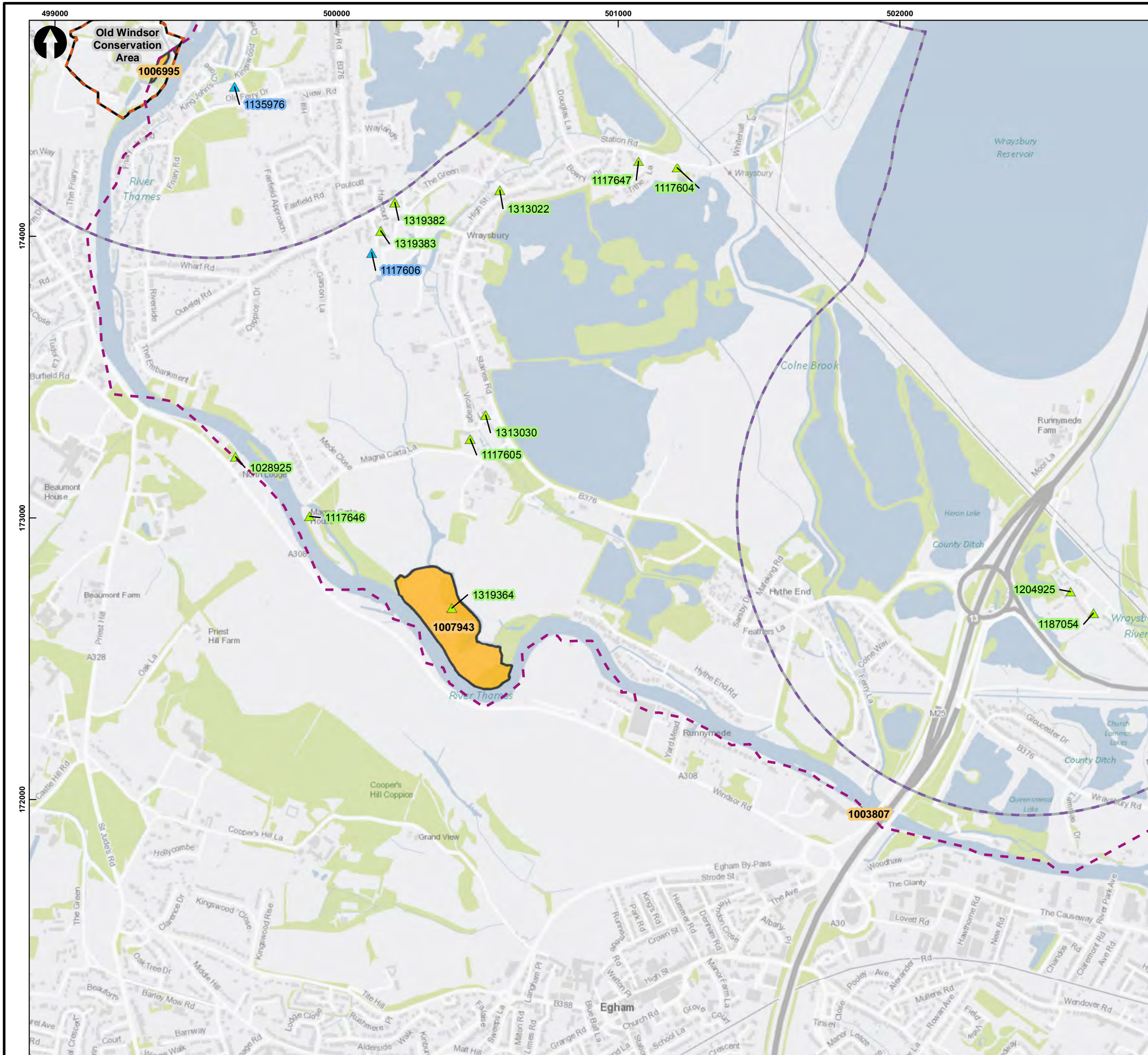


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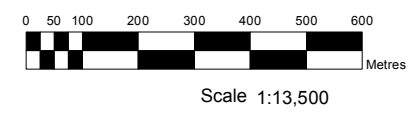
Title
 Figure 11.14: Initial Historic Environment designated heritage

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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000061				Version 1.0

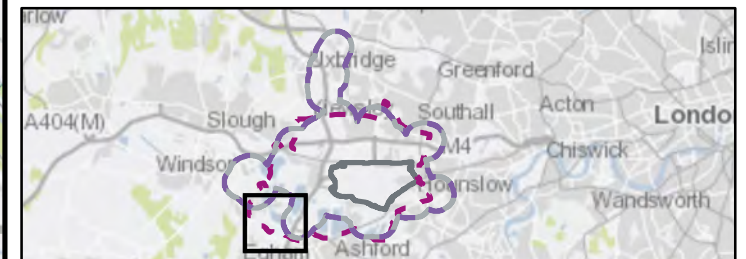


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- Grade II listed building
- Scheduled Monument
- Conservation Area



Key plan



Heathrow

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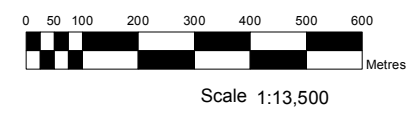
Title
 Figure 11.15: Initial Historic Environment designated heritage

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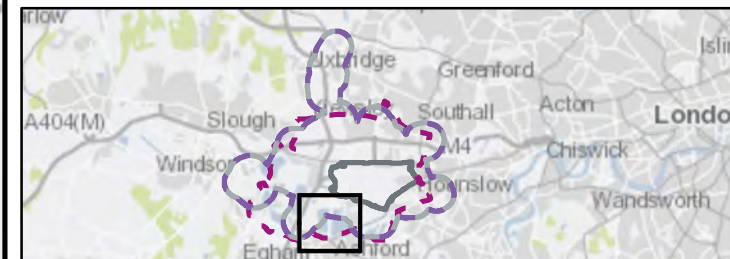


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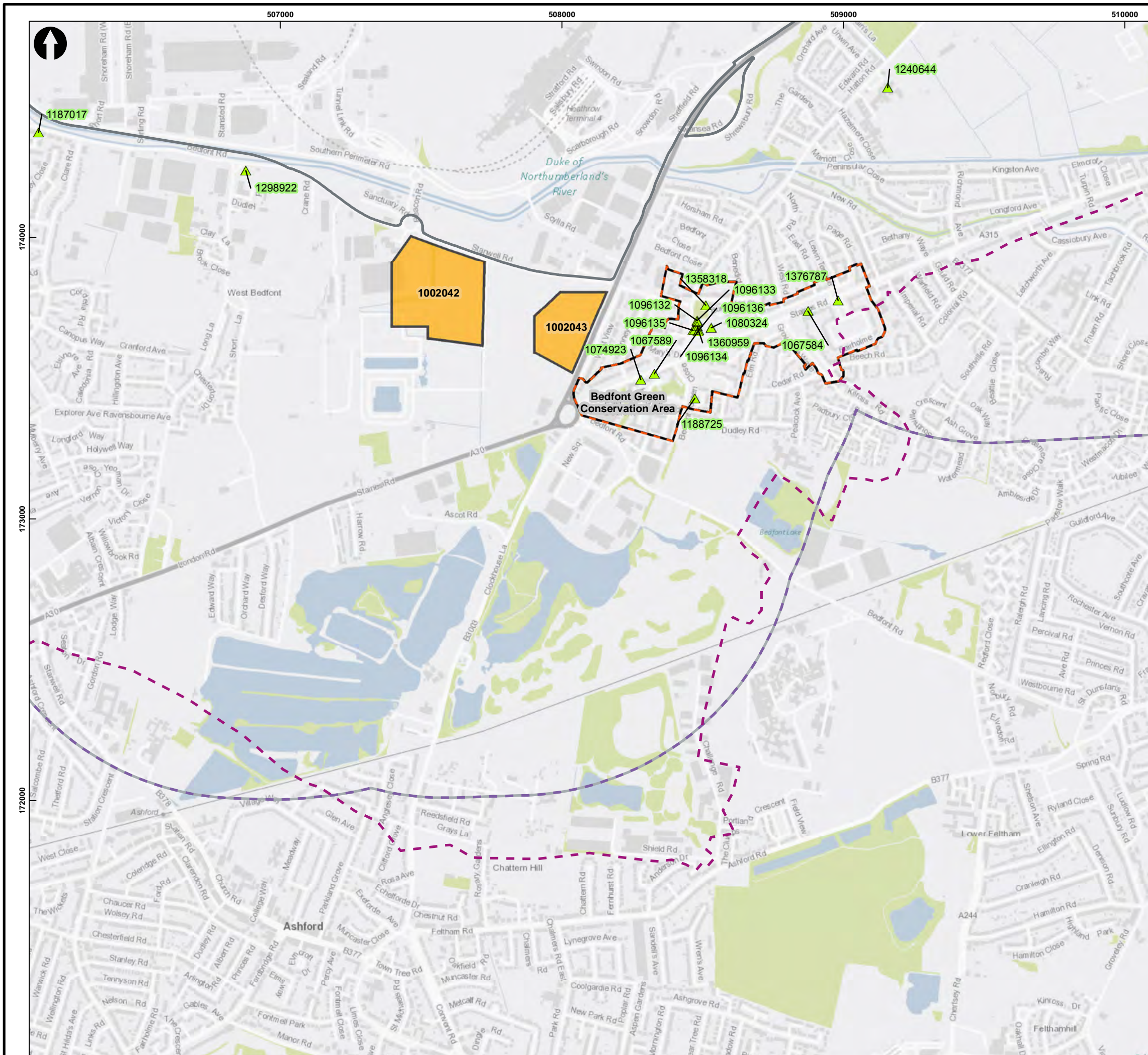


Key plan



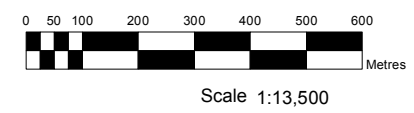
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Title Figure 11.16: Initial Historic Environment designated heritage			
Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000063			Status FINAL
			Version 1.0

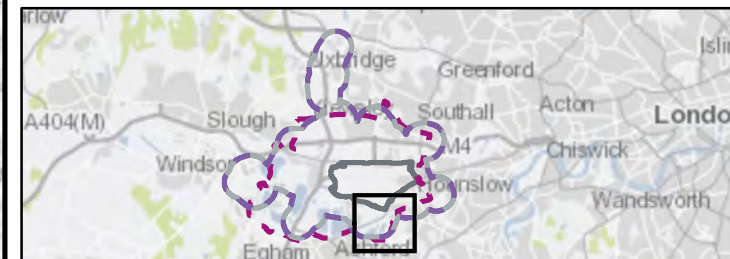


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- Heathrow Planning Boundary
- Illustrative historic environment core study area
- Baseline data collection area to date
- Grade I listed building
- Grade II* listed building
- Grade II listed building
- Scheduled Monument
- Conservation Area

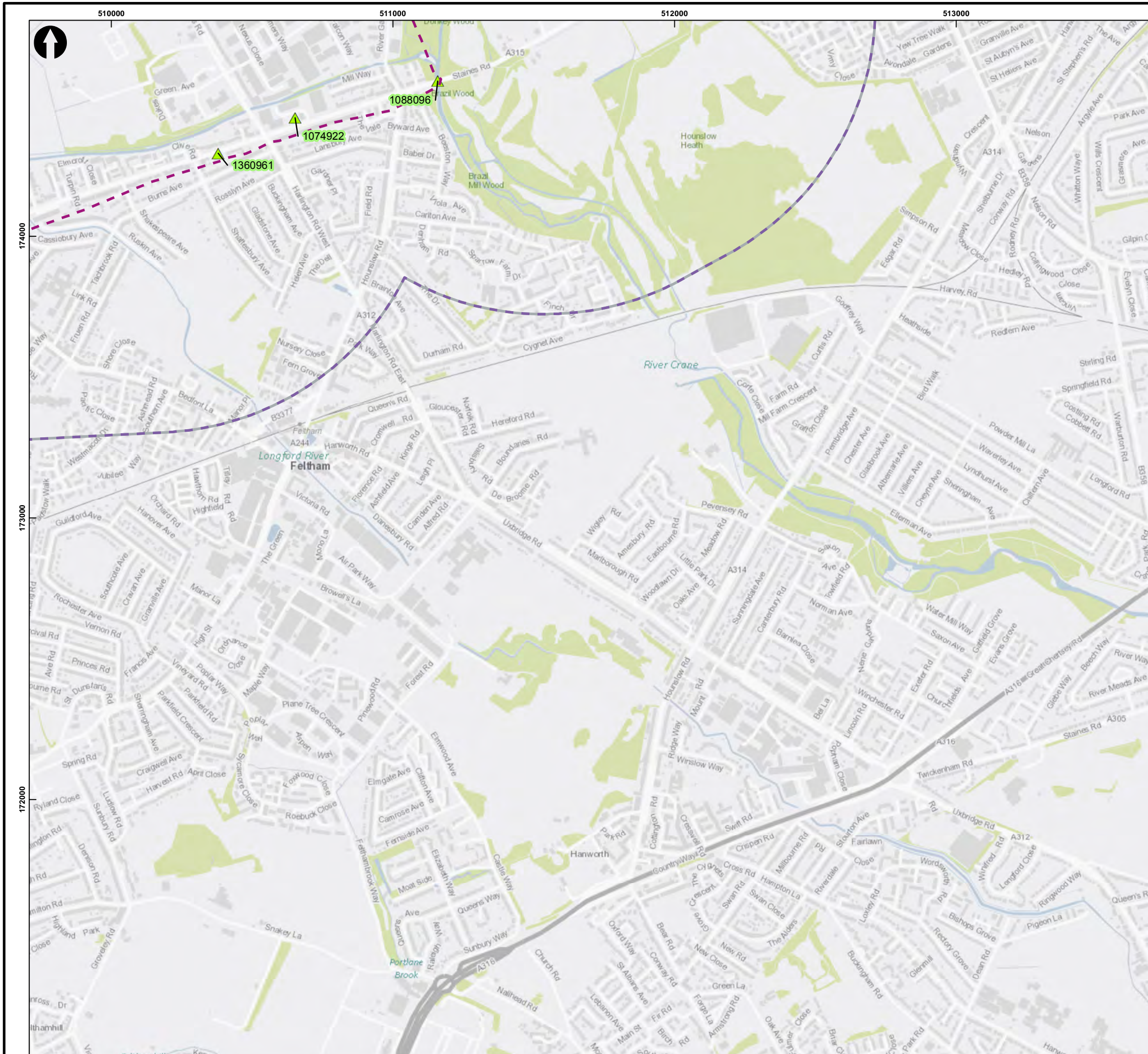


Key plan



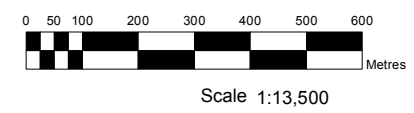
Heathrow

© Heathrow Airport Limited				Scale 1:13,500
Project Name Heathrow Expansion Project				Heathrow Project No. HEP53
Title Figure 11.17: Initial Historic Environment designated heritage				
Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000064				Version 1.0

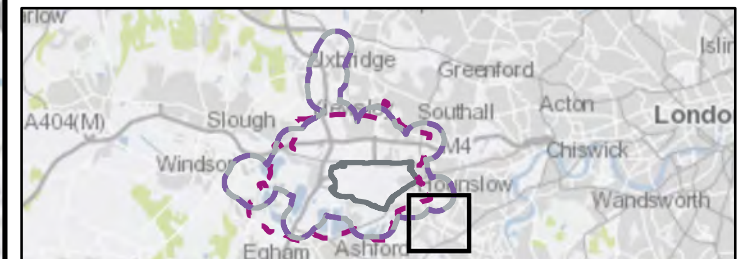


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- Heathrow Planning Boundary
- Illustrative historic environment core study area
- Baseline data collection area to
- Grade I listed building
- Grade II* listed building
- Grade II listed building
- Scheduled Monument
- Conservation



Key plan

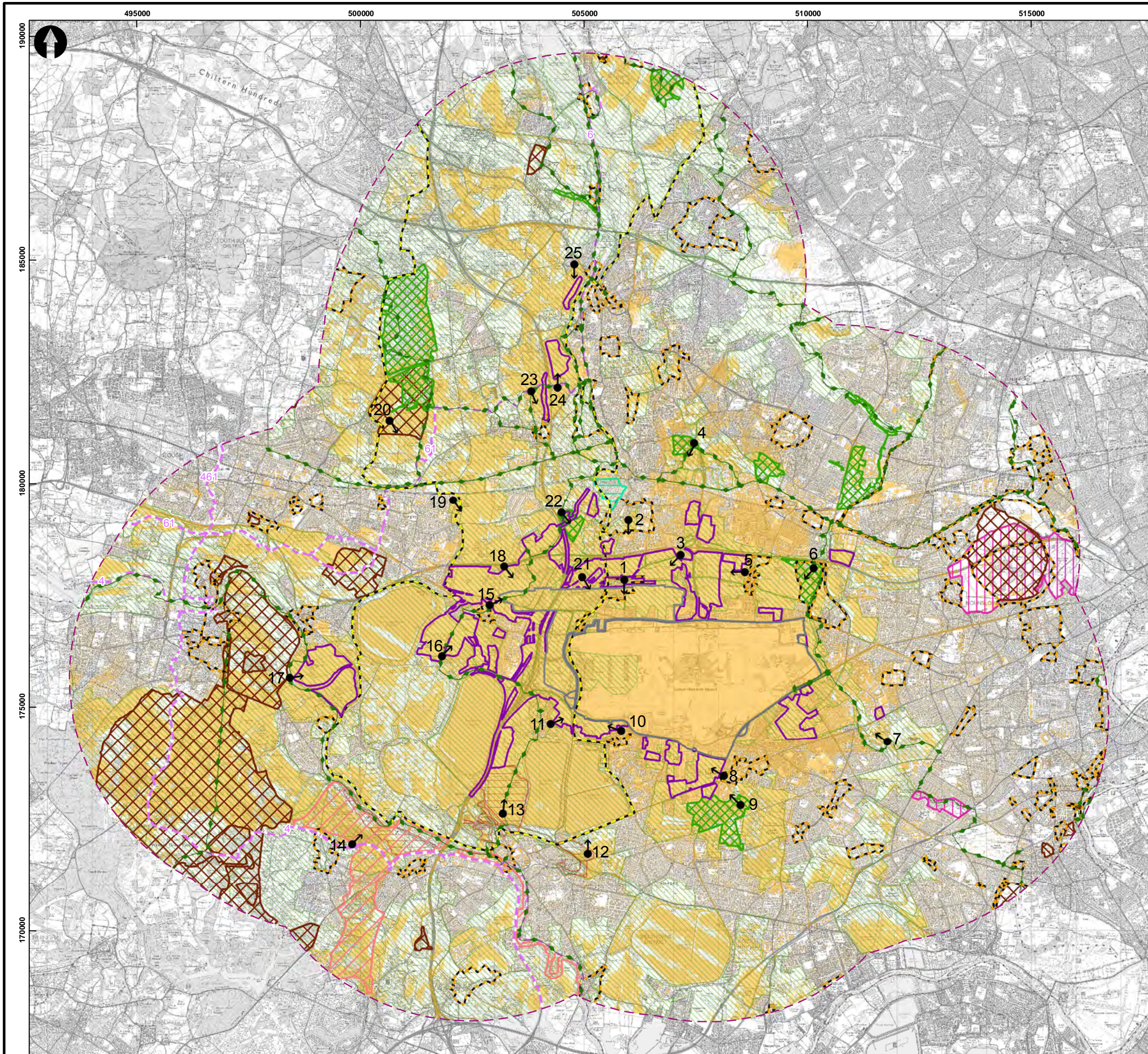


Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 11.18: Initial Historic Environment designated heritage

Company Wood	Drawn By EASTR	Chk/Approved DONNV	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000065				Version 1.0

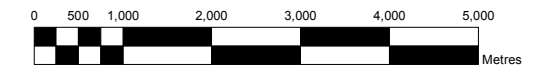


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 ZTV modelling used LiDAR 2m DSM data © Environment Agency copyright and/or database right 2015, for the majority of the study area; supplemented by NextMap 5m DSM data © Intermap Technologies all rights reserved 2015, where gaps exist in Environment Agency data.

- Heathrow Planning Boundary
- Land being considered for the expanded airfield
- Land being considered for infrastructure works (roads, rivers, water drainage and treatment); airport supporting facilities; airport related development; and construction sites
- Landscape and visual amenity study area
- Zone of Theoretical Visibility (ZTV)
- National Trail / Recreational Route
- Viewpoint Location
- National Cycle Route
- Colne Valley Regional Park
- West Drayton Area of Special Local Character
- Conservation Area
- Country Park
- Runnymede Borough Area of Landscape Importance
- Registered Park and Garden
- Countryside and Rights of Way (CRoW) Act Open Access
- Metropolitan Open Land
- Green Belt

Public Rights of Way are shown as part of Ordnance Survey base mapping, applying standard Ordnance Survey map symbols.



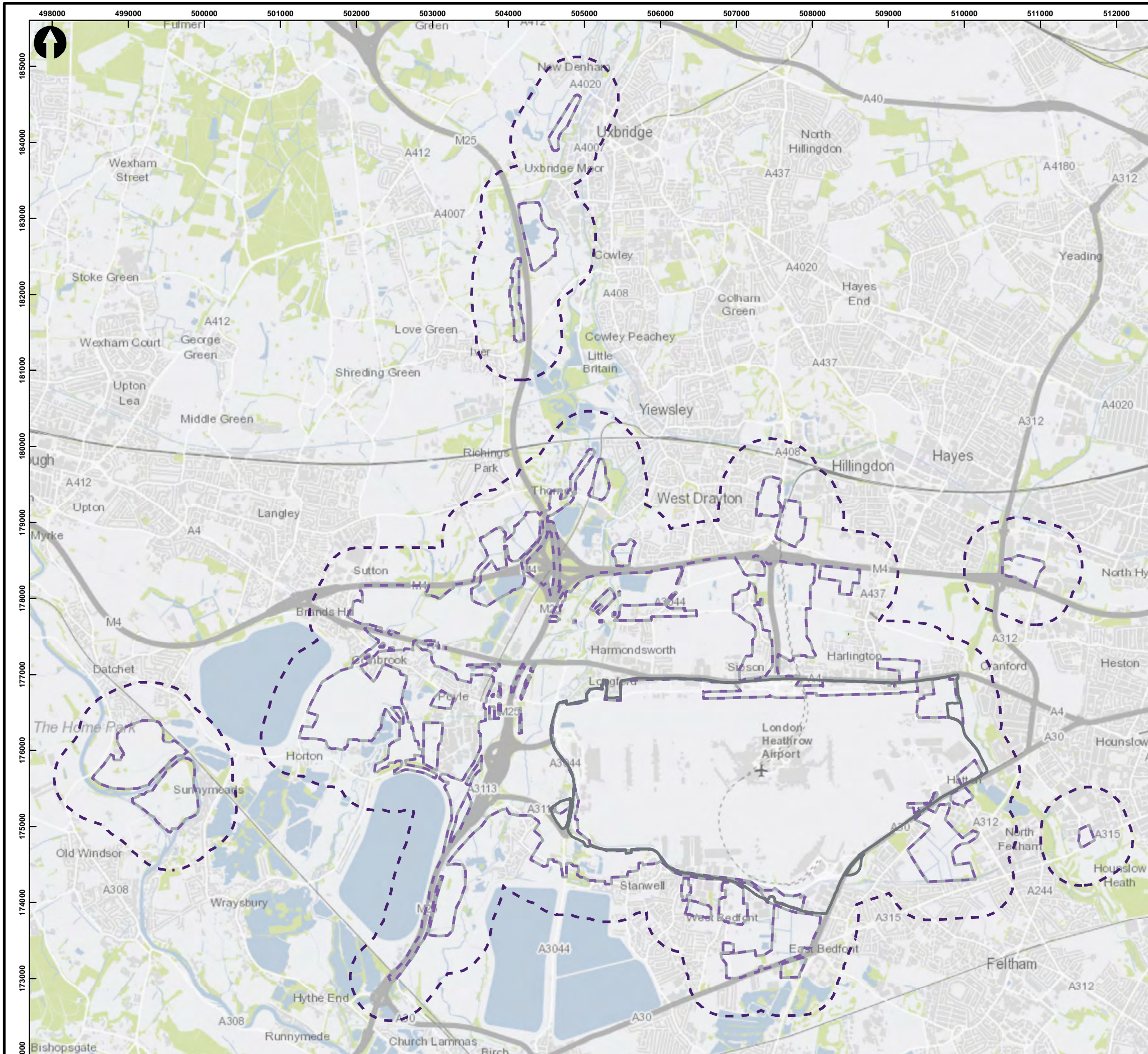
Scale 1:85,000

Heathrow




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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

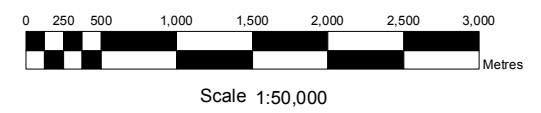
Title
 Figure 13.1: Landscape and visual considerations

Company Mott MacDonald	Drawn By K Lorenz	Chk/Approved M Cartwright	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000066				Version 1.0



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-  Heathrow Planning Boundary
-  Illustrative agricultural land quality and minerals safeguarding study area
-  Illustrative land quality study area

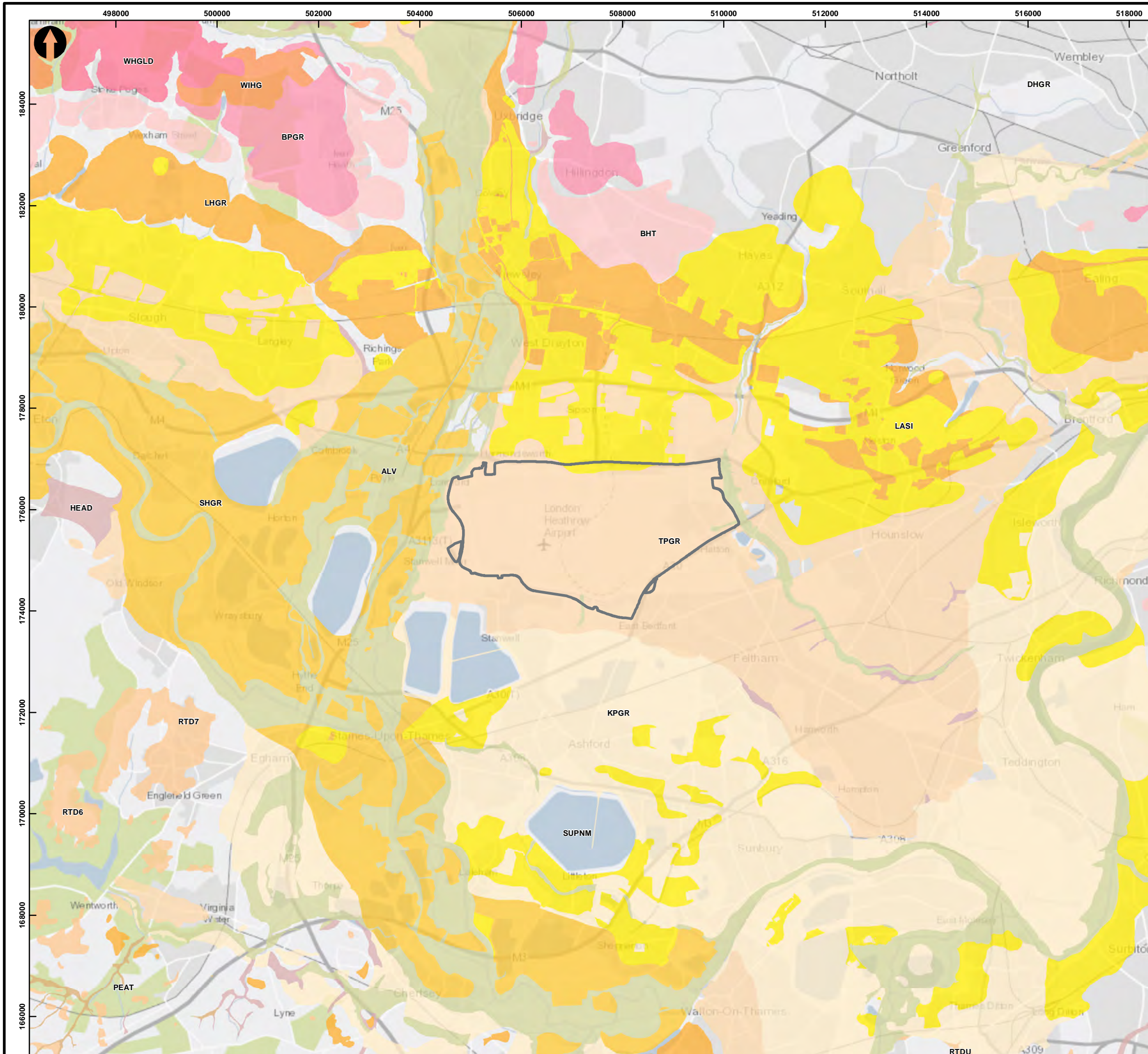


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

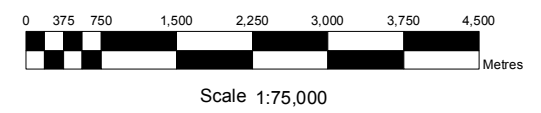
Title
 Figure 14.1: Land quality, agricultural land quality and minerals safeguarding study areas

Company Wood	Drawn By BUTLS	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000067				Version 1.0



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- Heathrow Planning Boundary
- ALV Alluvium - Clay, Silt, Sand, Gravel and Peat
- HEAD Head - Gravel, Sand, Silt and Clay
- PEAT Peat
- RTD River Terrace Deposits 6, 7, 8 - Sand
- RTDU River Terrace Deposits (Undifferentiated) - Sand and Gravel
- LASI Langley Silt Member - Clay and Silt
- SHGR Shepperton Gravel Member - Sand and Gravel
- KPGR Kempton Park Gravel Member - Sand and Gravel
- TPGR Taplow Gravel Member - Sand and Gravel
- LHGR Lynch Hill Gravel Member - Sand and Gravel
- BHT Boyn Hill Gravel Member - Sand and Gravel
- BPGR Black Park Gravel Member - Sand and Gravel
- WHGLD Winter Hill Gravel (Lacustrine Deposits) - Sand and Gravel
- WIHG Winter Hill Gravel - Sand and Gravel
- GCGR Gerrards Cross Gravel - Sand and Gravel
- BDGR Beaconsfield Gravel - Sand and Gravel

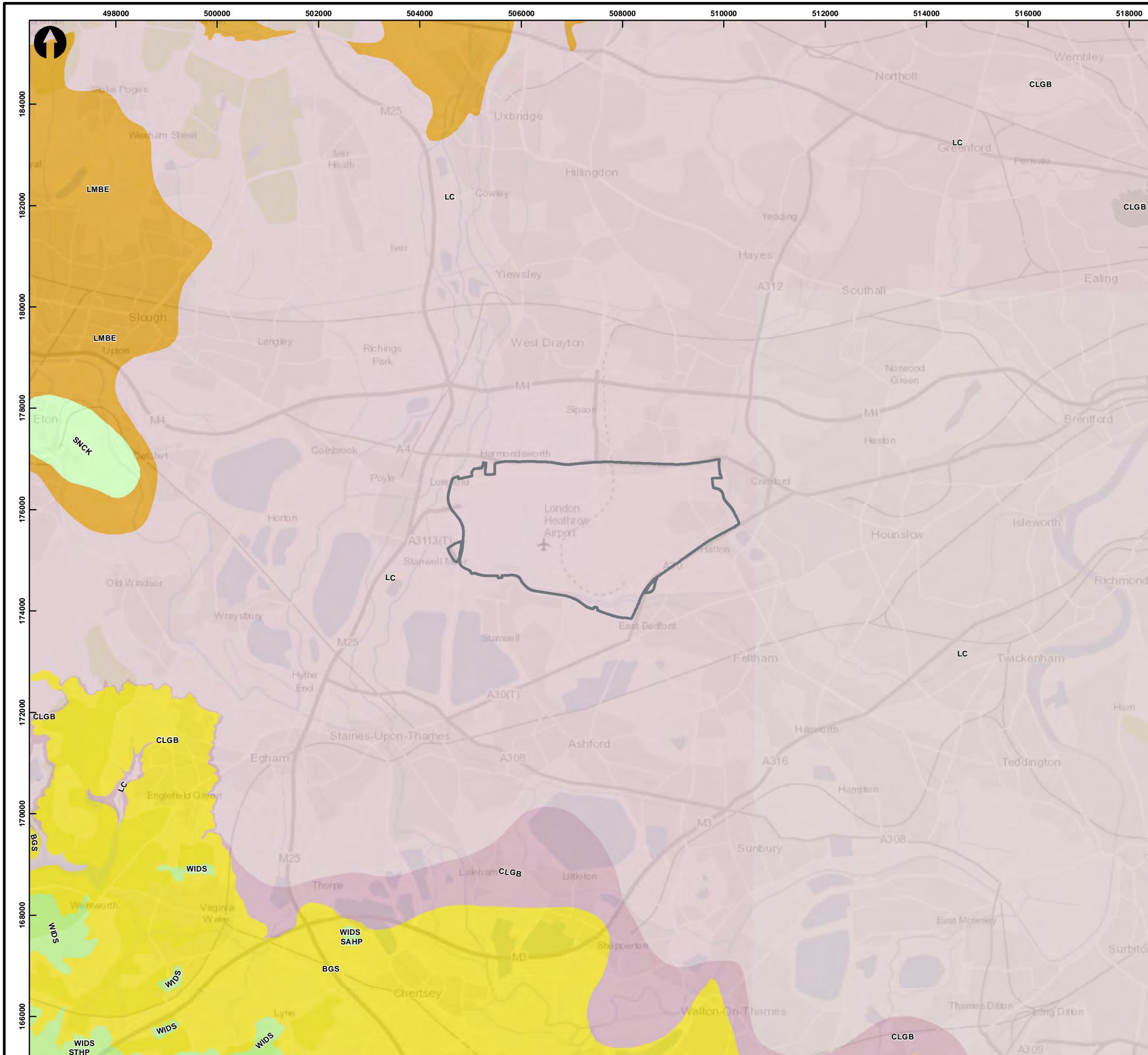


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 14.2: Superficial geology

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000068				Version 1.0



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Heathrow Planning Boundary

Bracklesham Group

- WIDS Windlesham Formation - Sand, Silt and Clay
- STHP Stanners Hill Pebble Bed - Gravel
- BGS Bagshot Formation - Sand
- SAHP St Ann's Hill Pebble Bed Member - Gravel

Thames Group

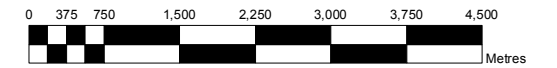
- CLGB Claygate Member of London Clay Formation - Sand, Silt and Clay
- LC London Clay Formation - Clay, Silt and Sand

Lambeth Group

- LMBE Lambeth Group - Clay, Silt and Sand

Chalk Group - White Chalk

- SNCK Seaford Chalk Formation and Newhaven Chalk Formation



Scale 1:75,000

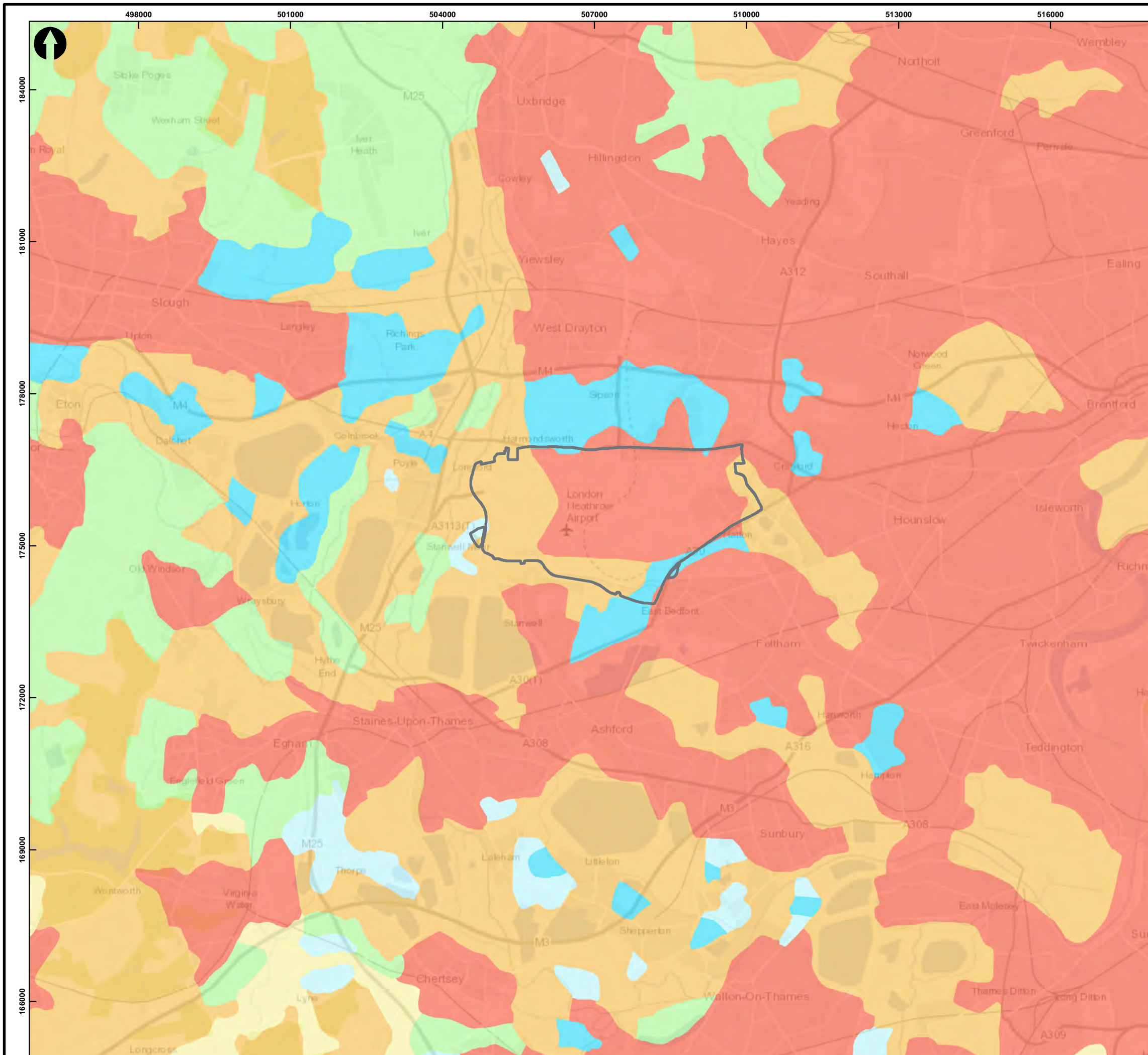
Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 14.3: Solid geology

Company Wood	Drawn By GREES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
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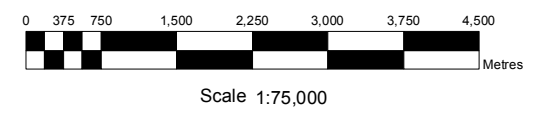
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000069	Version 1.0
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Heathrow Planning Boundary

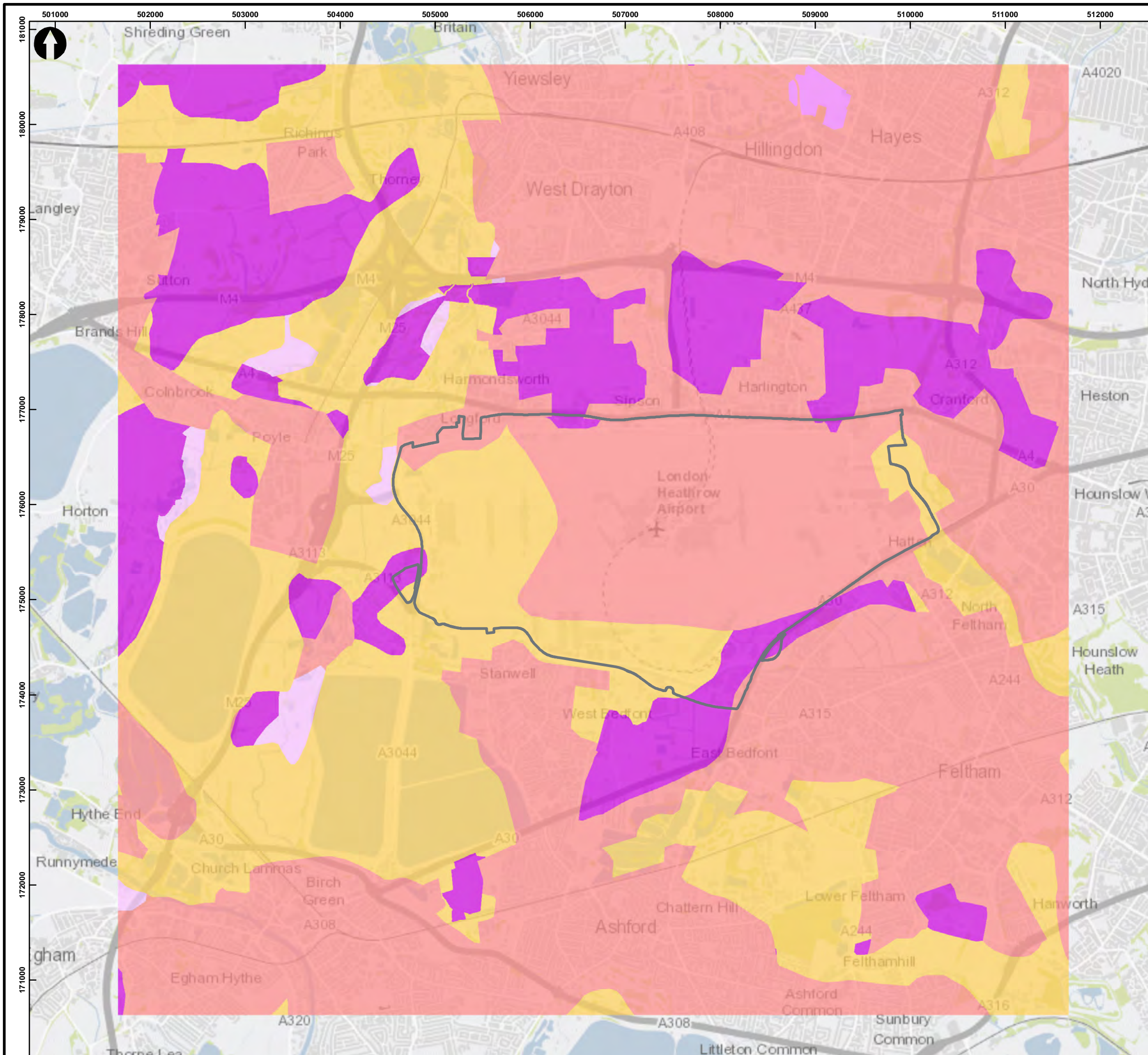
- Grade 1
- Grade 2
- Grade 3
- Grade 4
- Grade 5
- Non Agricultural
- Urban



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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 14.4: Provisional Agricultural Land Classification mapping

Company Wood	Drawn By GREES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000070				Version 1.0

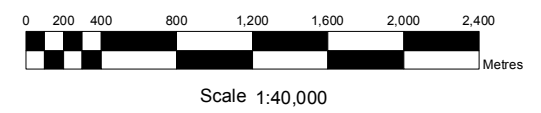


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Heathrow Planning Boundary

Best and Most Versatile Agricultural Land Classification

- High (>60% area bmv)
- Moderate (20 - 60% area bmv)
- Non-agricultural use
- Urban / Industrial

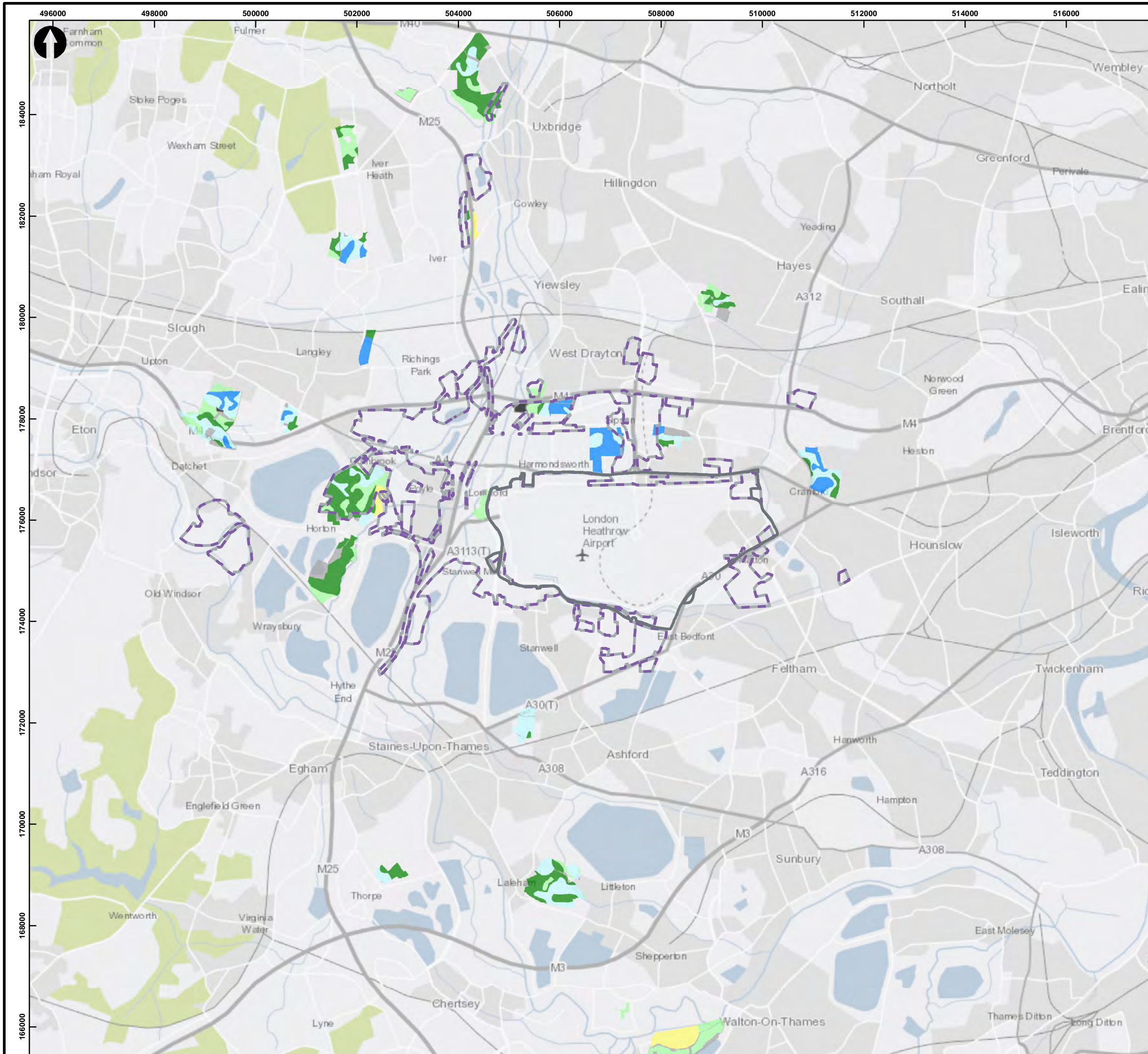


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

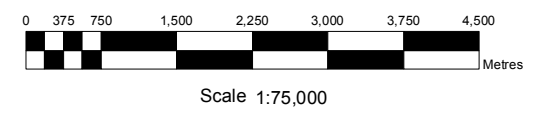
Title
 Figure 14.5: Agricultural Land classification strategic map

Company Wood	Drawn By GREES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000071				Version 1.0



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- Heathrow Planning Boundary
- Illustrative agricultural land quality study area
- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Not Surveyed
- Other

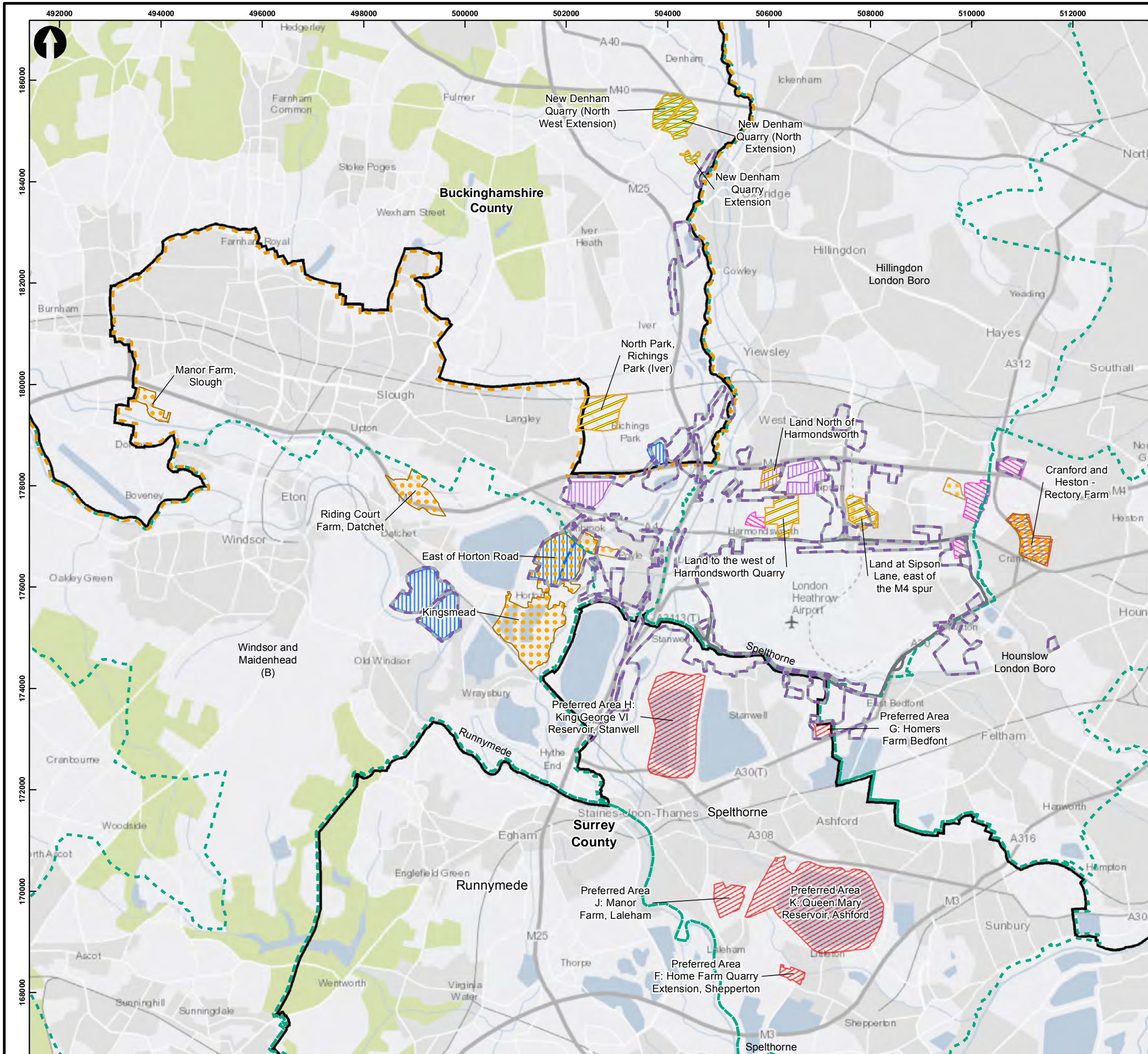


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

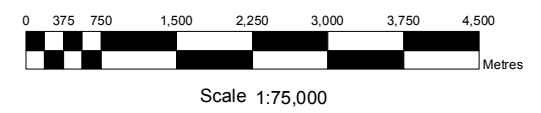
Title
Figure 14.6: Site Specific Agricultural Land Classification studies (Post 1988 ALC field studies)

Company Wood	Drawn By GREES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000072				Version 1.0



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-  Illustrative minerals safeguarding study area
-  Heathrow Planning Boundary
-  County Boundary
-  District Borough Boundary
-  Buckinghamshire Mineral Safeguarding Area
-  Active Mineral Sites
-  Mineral Preferred Areas
-  Sites with Planning Permission
-  Sites identified as possible future extraction sites
-  Mineral Safeguarded Areas
-  Potential borrow pits for construction
-  Potential sites for borrow pits or stockpiling

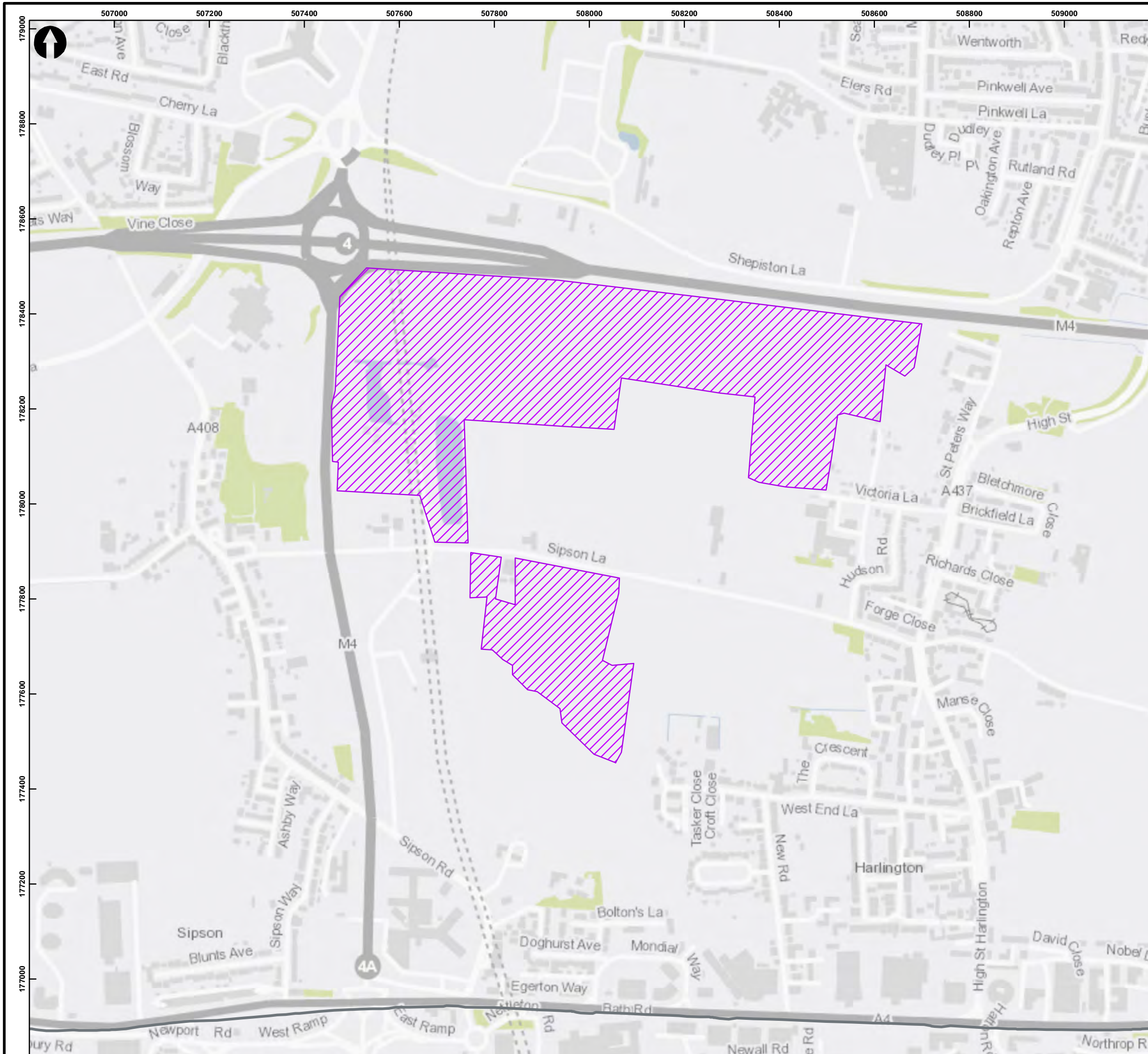


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

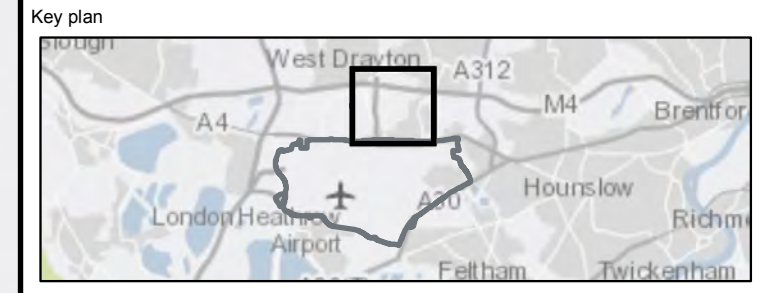
Title
Figure 14.7: Minerals safeguarding sites

Company Wood	Drawn By BUTLS	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000073				Version 1.0



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-  Heathrow Planning Boundary
-  Proposed Sipson Lane Complex RIGS

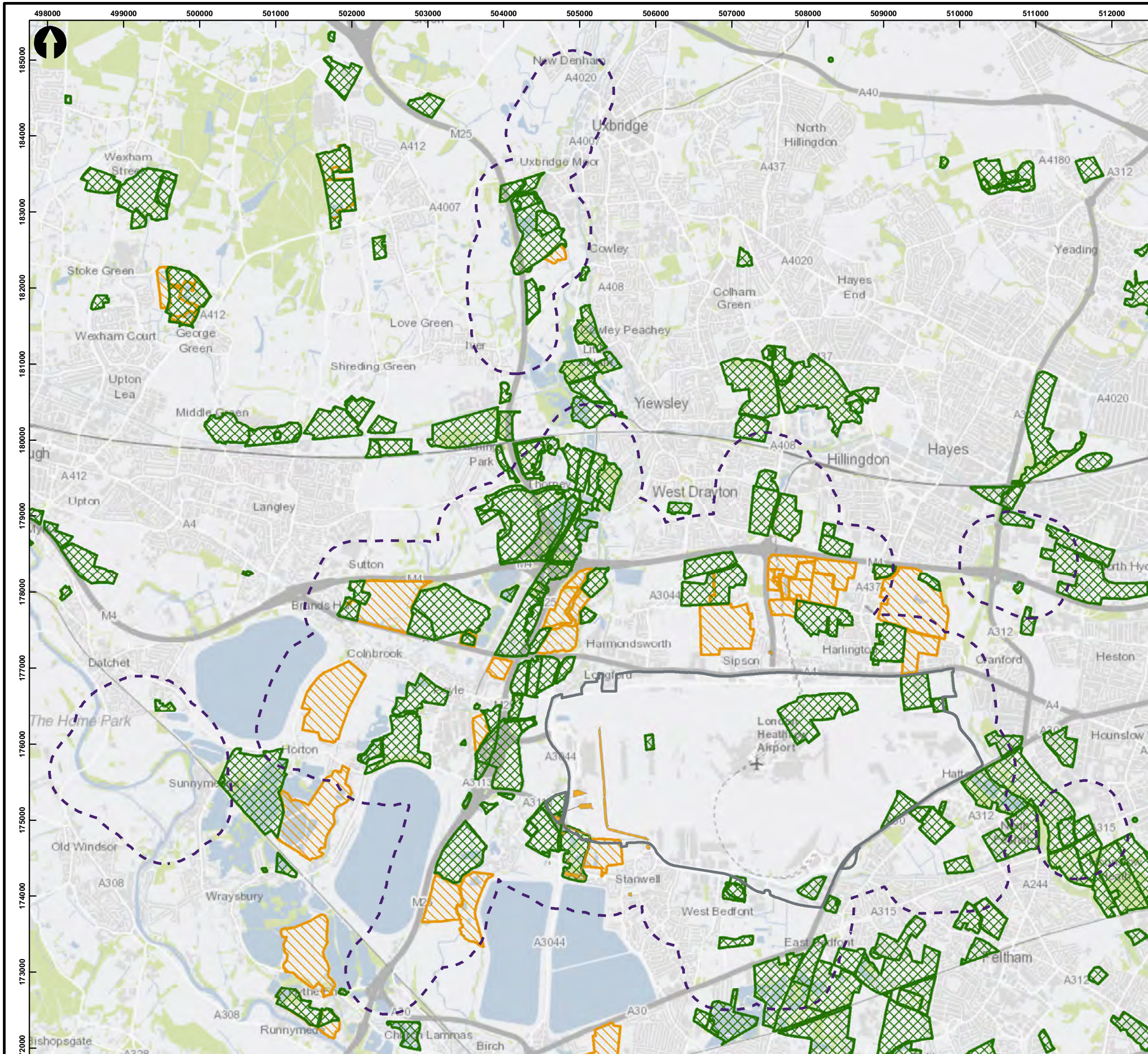


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

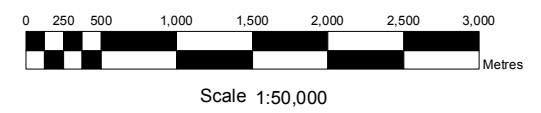
Title
 Figure 14.8: Geodiversity sites

Company Wood	Drawn By BUTLS	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000074				Version 1.0



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- Heathrow Planning Boundary
- Illustrative land quality study area
- Infilled water features (ponds, reservoirs and rivers)
- Authorised landfill
- Historic landfill
- Infilled water features

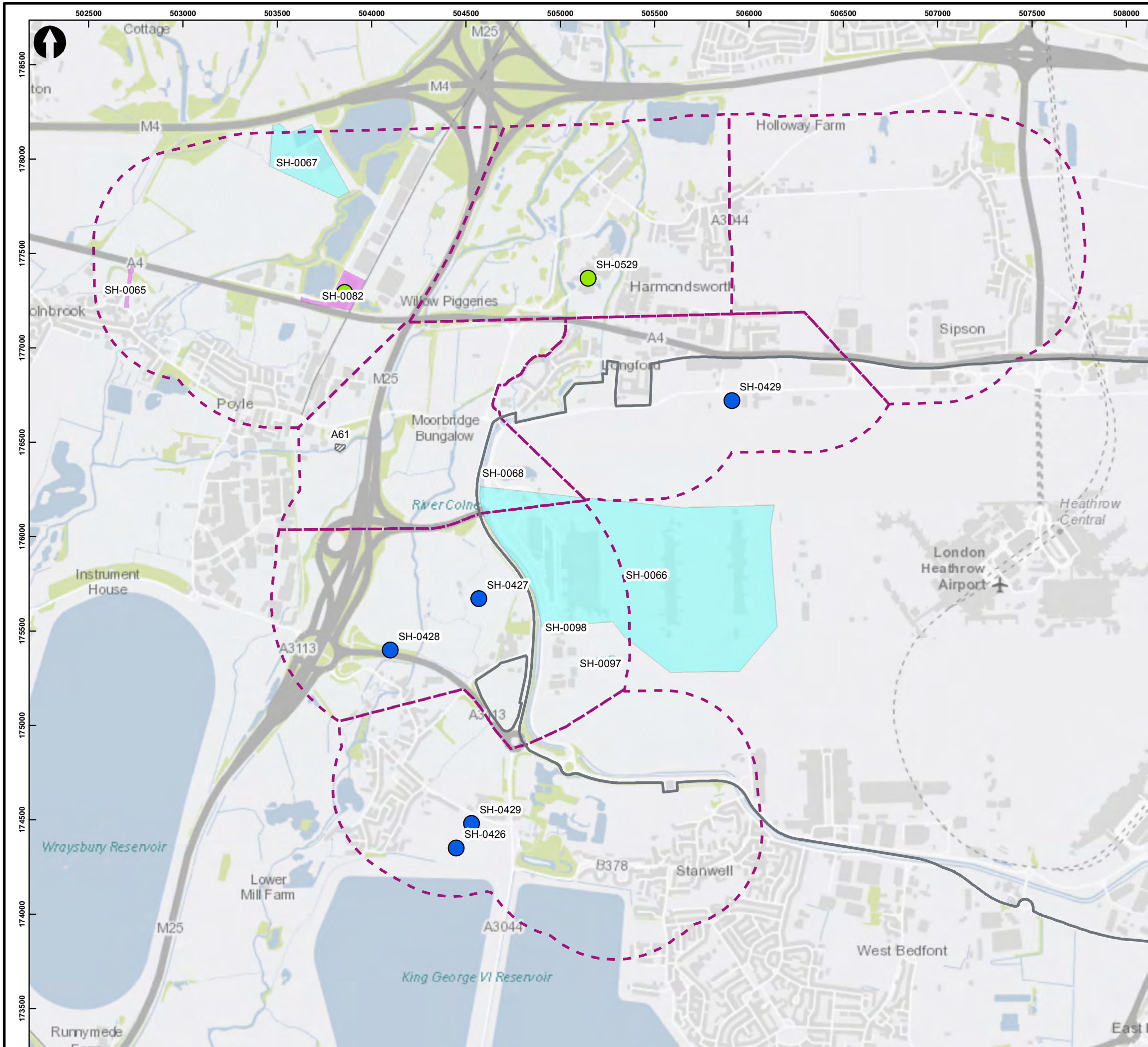


Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

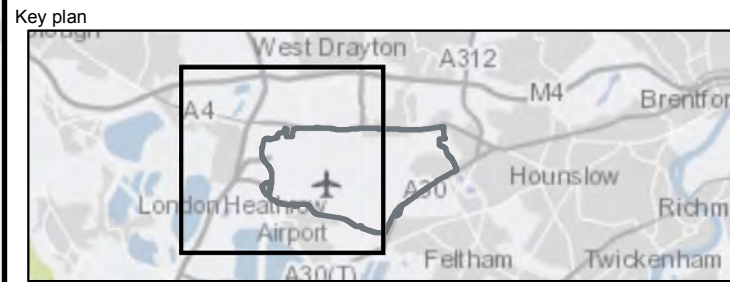
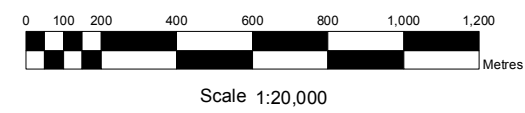
Title
 Figure 14.9: Potential contamination sources - landfill sites and infilled ponds

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000075				Version 1.0



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- Heathrow Planning Boundary
- Envirocheck data collection area to date
- Sewage Works
- Waste Management Facilities
- Sites authorised to handle radioactive materials
- Waste Management Facilities
- Historical unauthorised storage of scrap vehicles (Site identified by Slough BC Ref A61 Elbow Meadow)

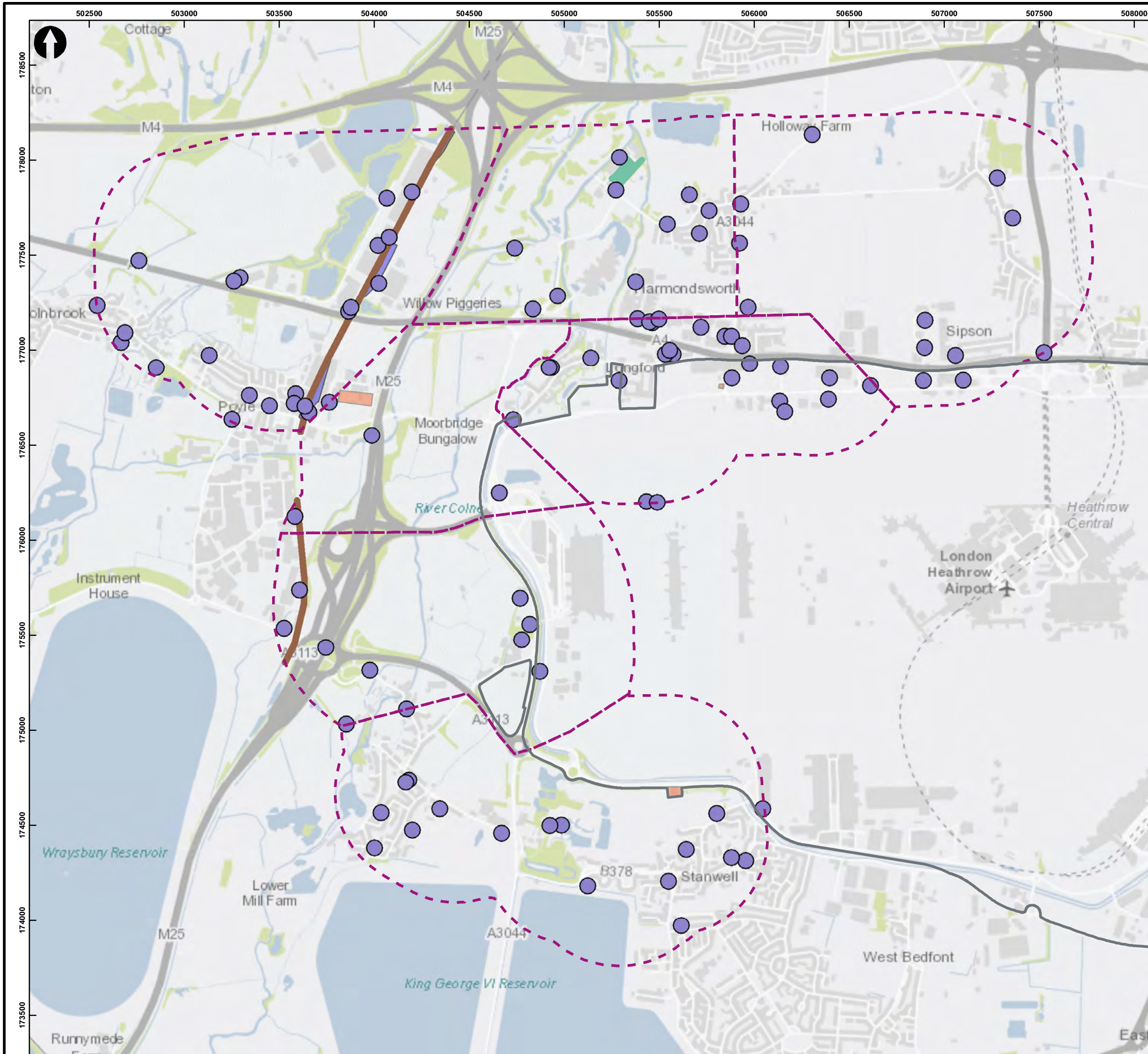


Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 14.10: Potential contamination sources - waste management facilities and sewage works

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000076				Version 1.0



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- Heathrow Planning Boundary
- Envirocheck data collection area to date
- Electrical Substation
- Marshalling Yard; Railway Siding; Railway sidings and goods shed
- Railway line
- Tramway / Rail
- Electrical Substation; Possible Electrical Substation



Scale 1:20,000

Key plan

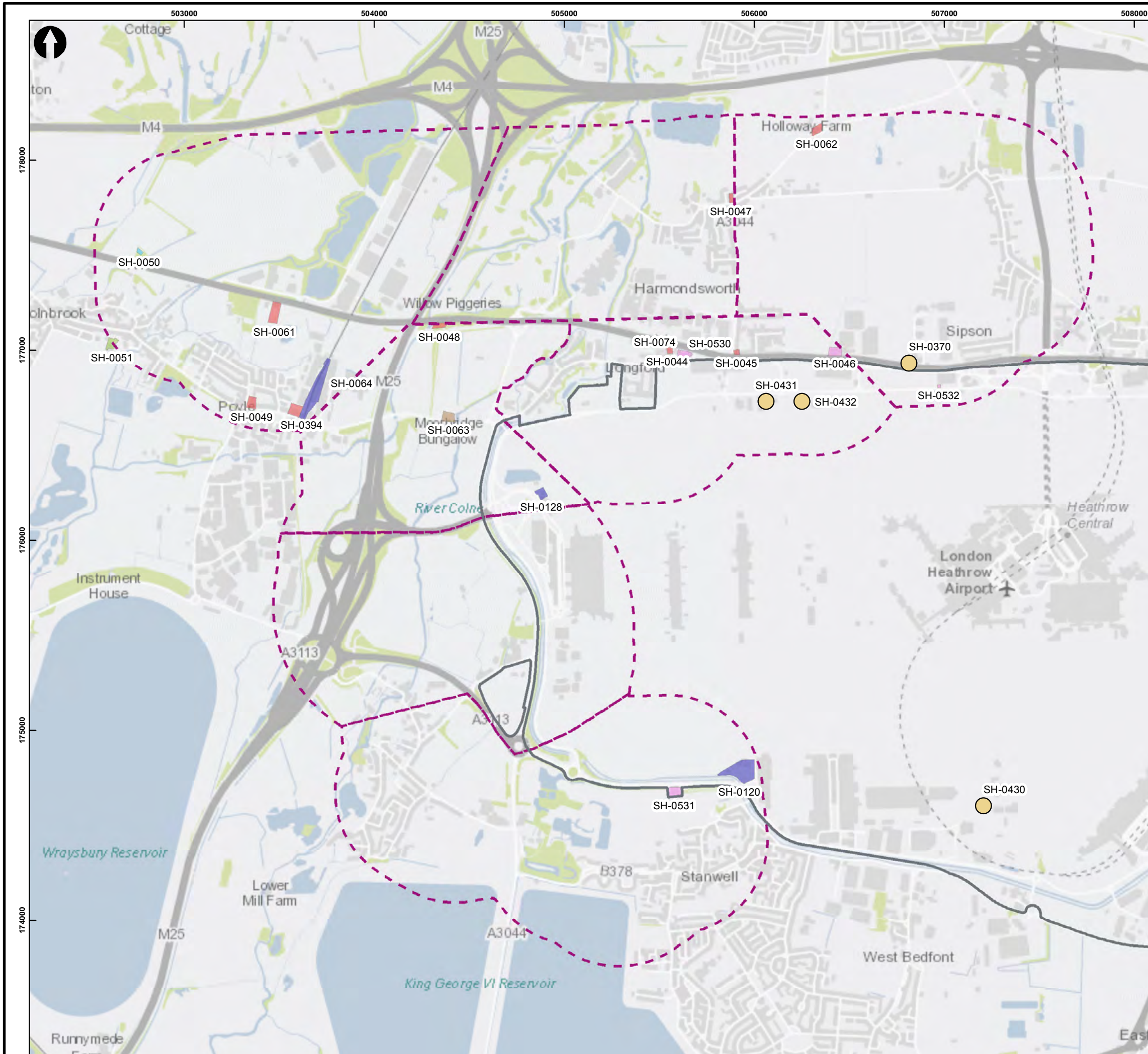


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

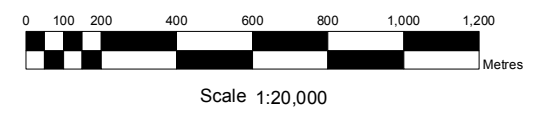
Title
 Figure 14.11: Potential contamination sources - summary of railway land and electricity substations

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000077				Version 1.0

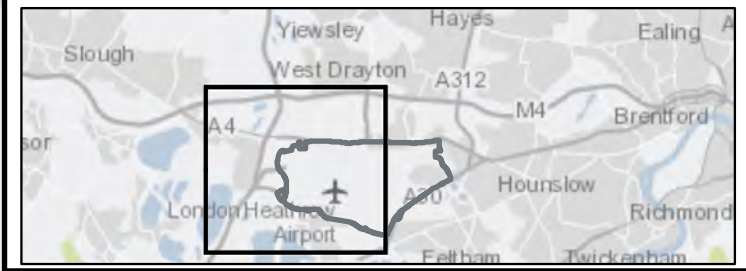


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- Heathrow Planning Boundary
- Envirocheck data collection area to date
- Gas works
- Fuel Installation
- Garage (possible filling station)
- Gas Valve Compound
- Petrol station
- Petroleum Metering Station
- Oil / Fuel Storage or Distribution



Key plan

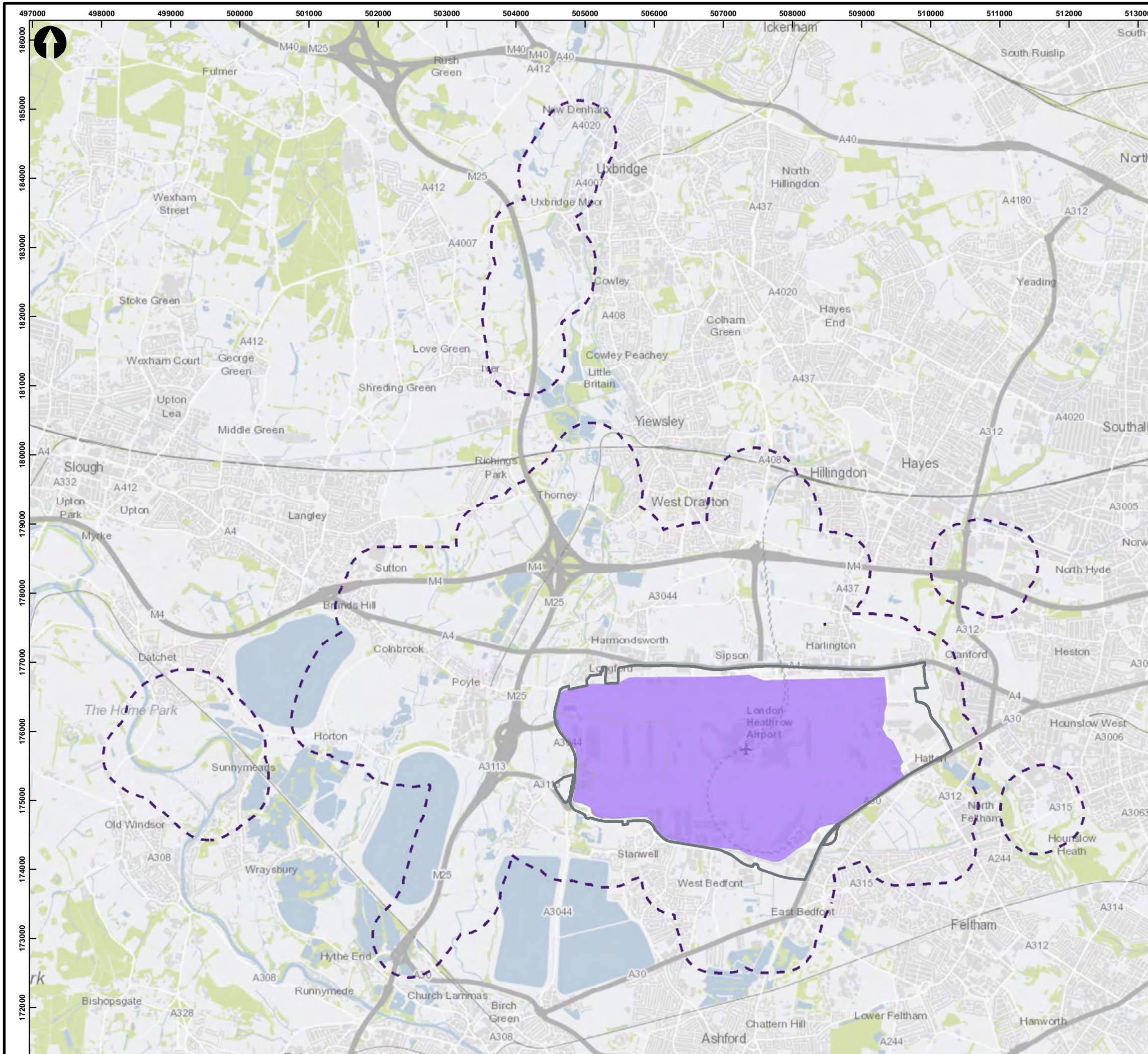


Heathrow




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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

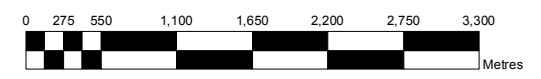
Title
 Figure 14.12: Potential contamination sources - summary of oil and fuel storage and gas works

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000078				Version 1.0



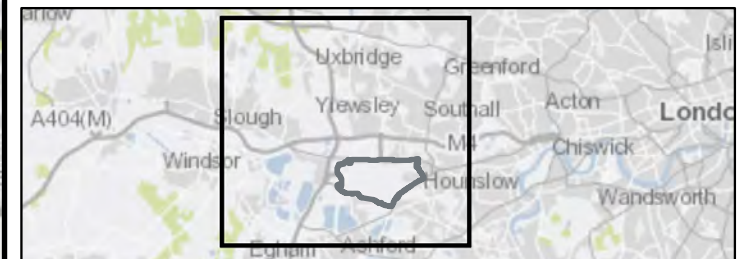
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-  Heathrow Planning Boundary
-  Illustrative land quality study area
-  Aircraft operation and maintenance facilities



Scale 1:55,000

Key plan

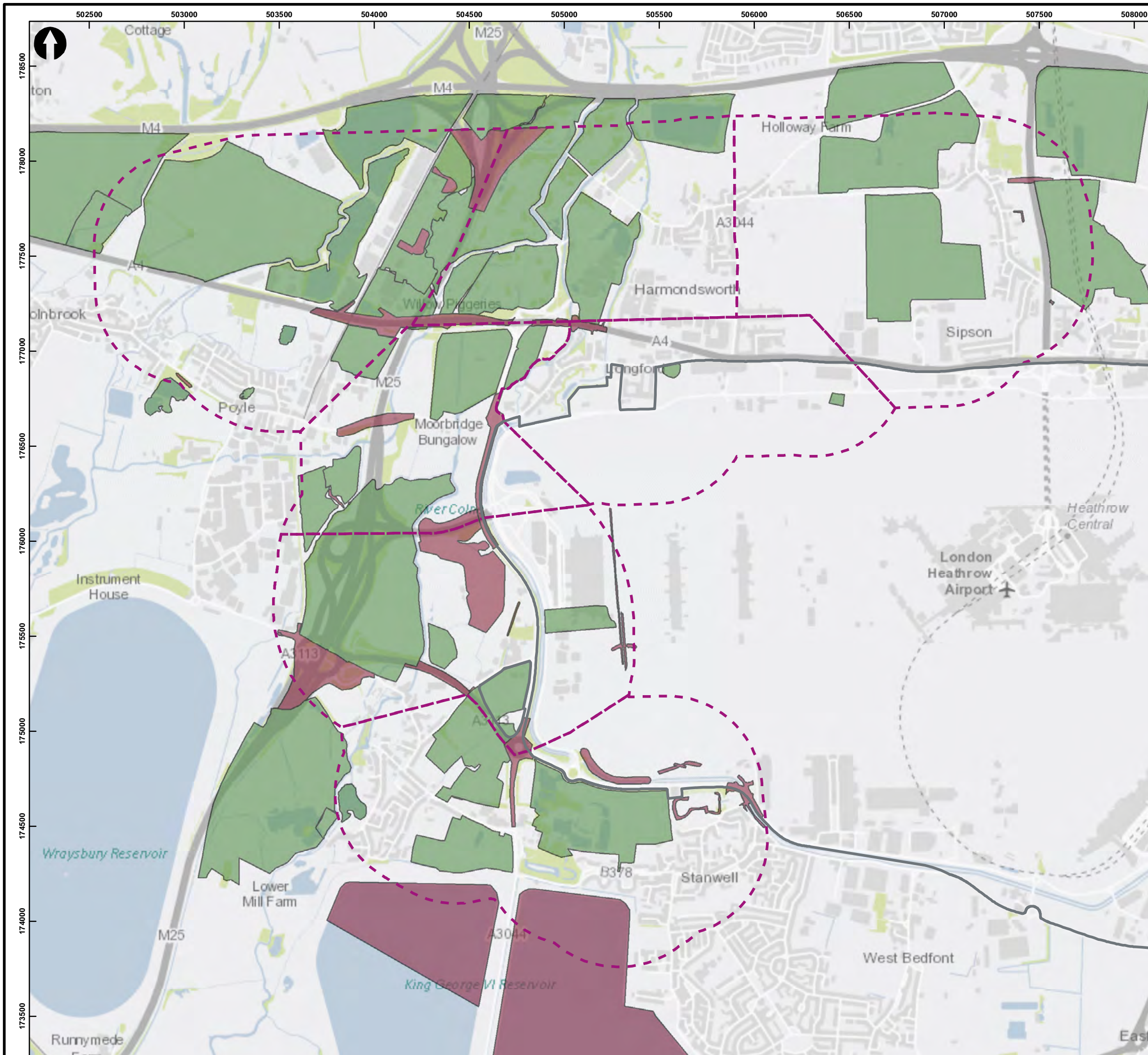


Heathrow





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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

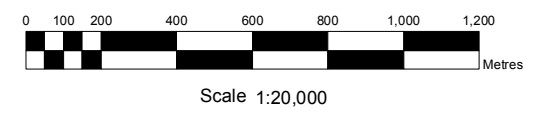
Title
 Figure 14.13: Potential contamination sources - summary of aircraft operation and maintenance facilities

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000079				Version 1.0



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-  Heathrow Planning Boundary
-  Envirocheck data collection area to date
-  Earthworks
-  Mineral sites



Key plan

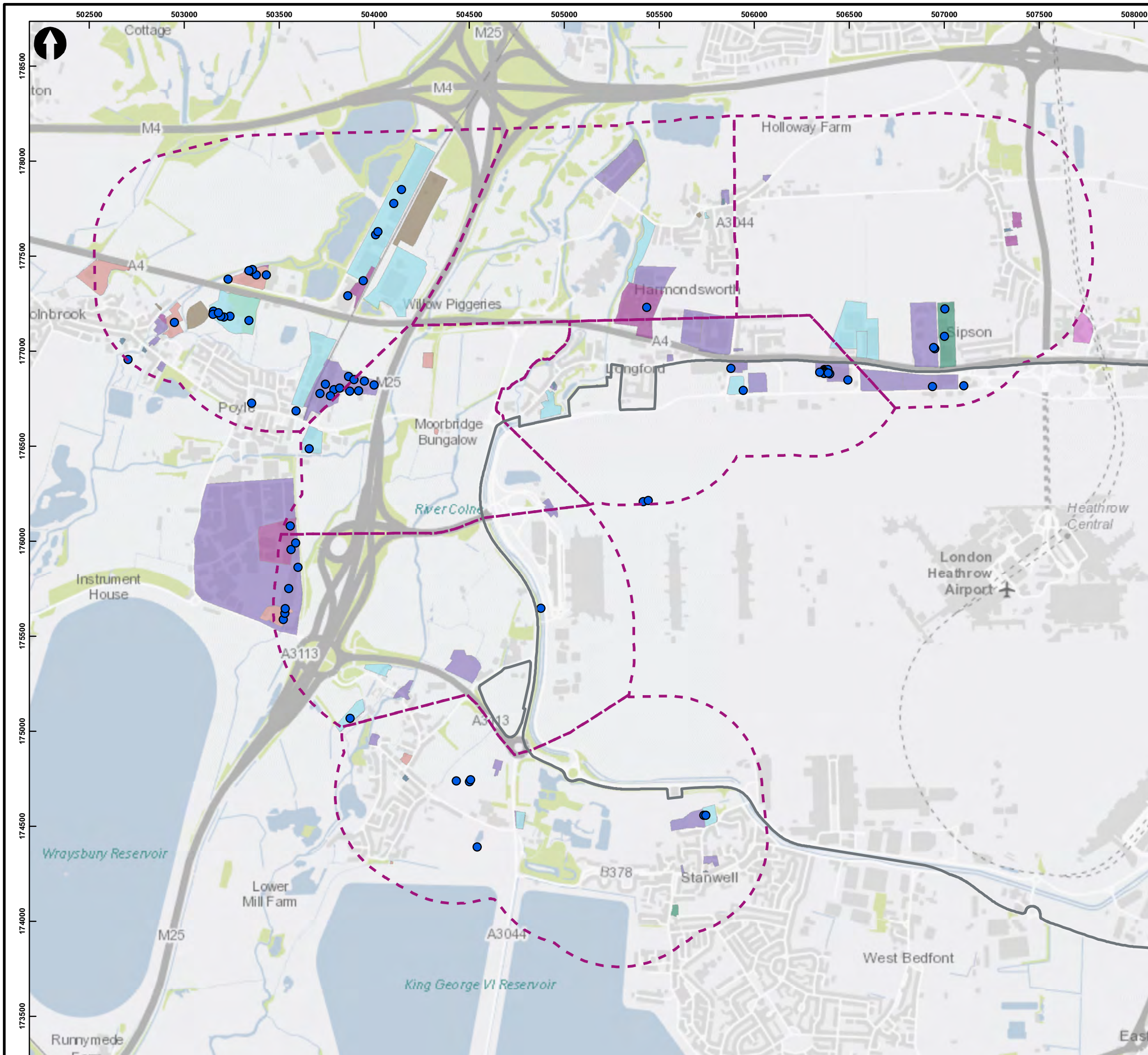


Heathrow

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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

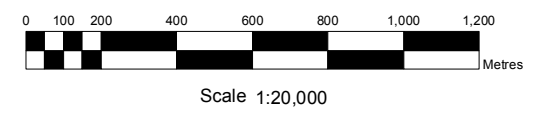
Title
 Figure 14.14: Potential contamination sources - summary of mineral sites and earthworks

Company Wood	Drawn By GREES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000080				Version 1.0

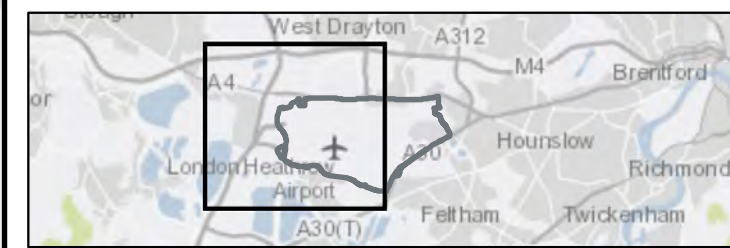


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- Heathrow Planning Boundary
- Envirocheck data collection area to date
- Tank(s)
- Bakery
- Construction Site
- Yards (builders and joinery)
- Works & Factories (specified)
- Works & Factories (unspecified)
- Depots & Warehouses (general)
- Vehicle Depots (transport & haulage related)
- Pumping station
- Smithy



Key plan

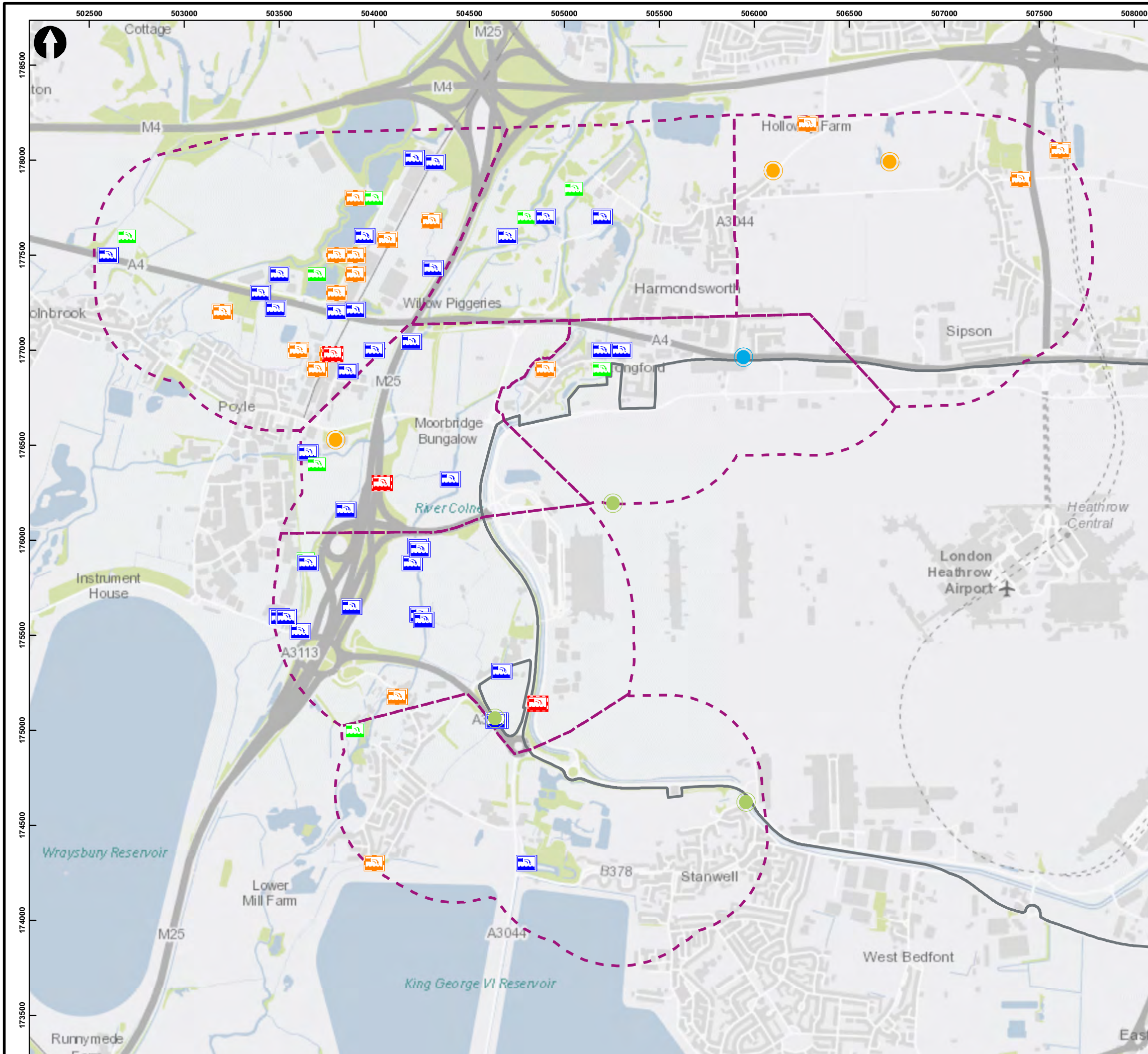


Heathrow

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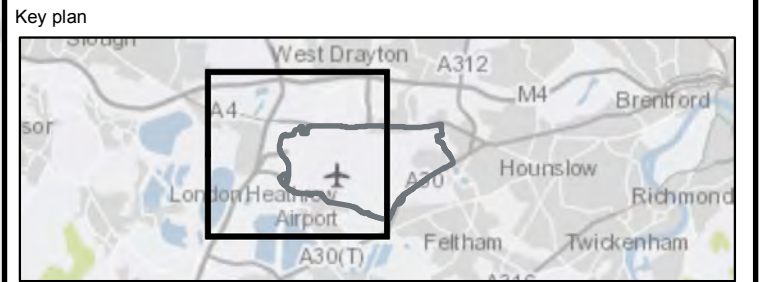
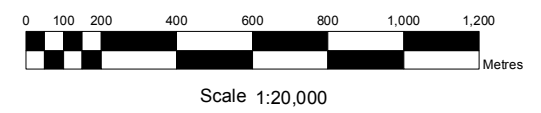
Title
 Figure 14.15: Potential contamination sources – summary of tanks and industrial facilities

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000081				Version 1.0



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- Heathrow Planning Boundary
- Envirocheck data collection area to date
- Agricultural / Trade Discharge
- Contaminated Water Discharge
- Miscellaneous / Unknown Discharge
- Sewage Discharge
- Pollution Incident - Environmental Impact - Air
- Pollution Incident - Environmental Impact - Land and Water
- Pollution Incident - Environmental Impact - Water

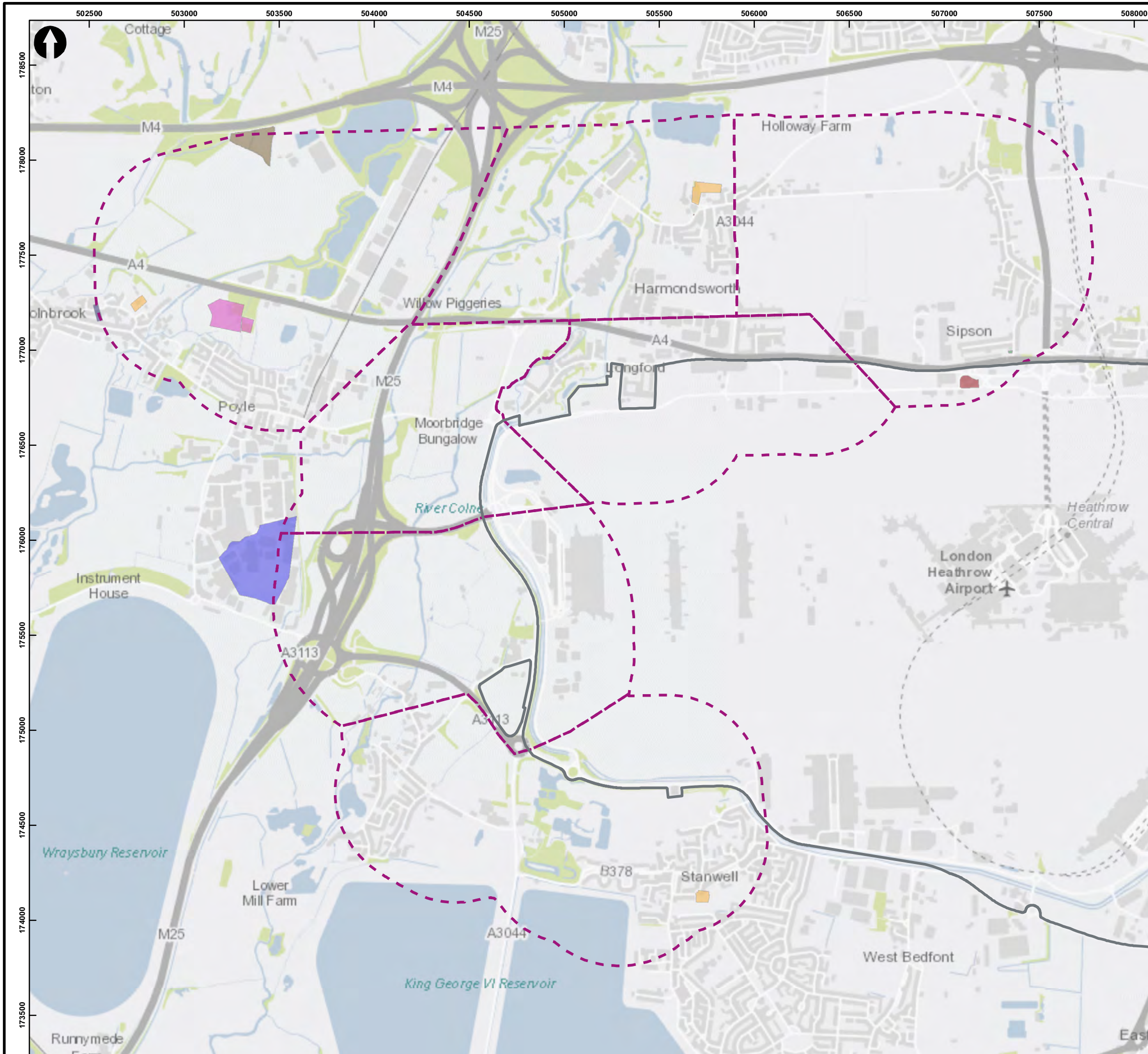


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

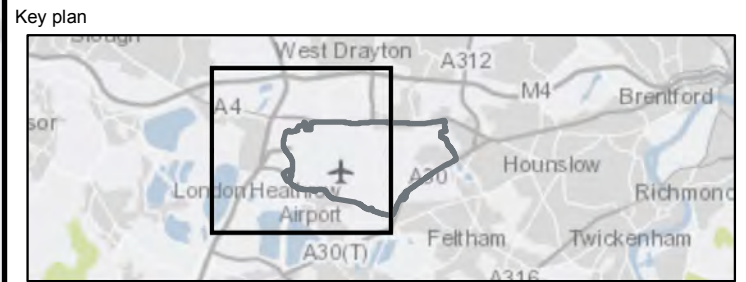
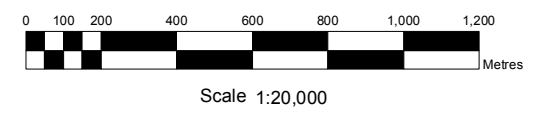
Title
 Figure 14.16: Potential contamination sources - summary of discharge consents and pollution incidents

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000082				Version 1.0



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-  Heathrow Planning Boundary
-  Envirocheck data collection area to date
-  Other, Ambulance Station
-  Other, Explosive Works
-  Other, Fire Station
-  Other, Grave yard
-  Other, Nursery (with tanks)
-  Other, Shooting Range
-  Other, Slaughter House

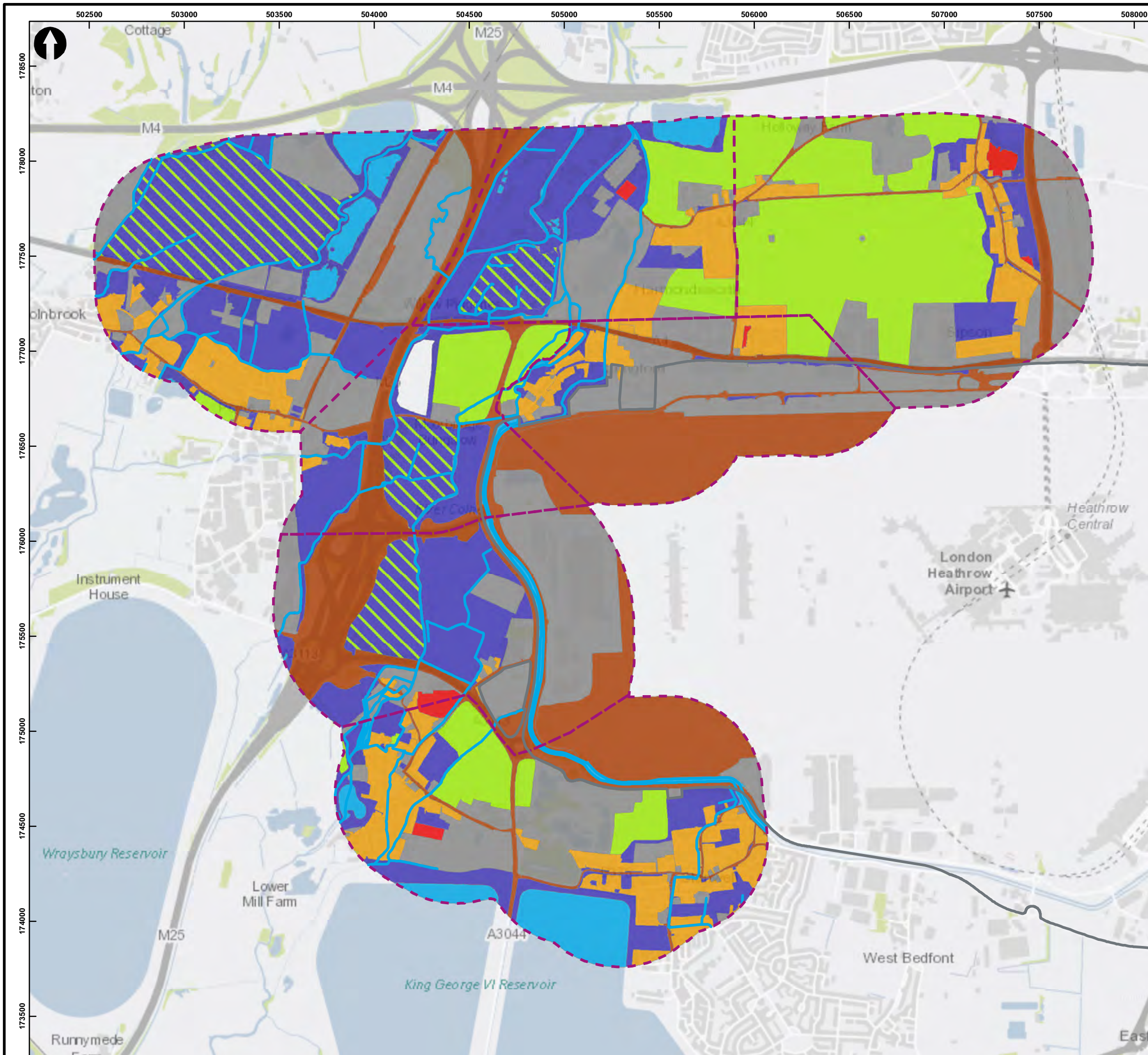


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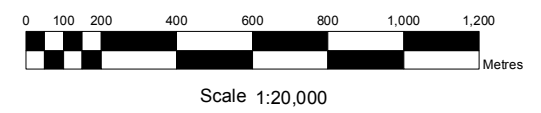
Title
 Figure 14.17: Potential contamination sources - other sources

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000083				Version 1.0



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- Heathrow Planning Boundary
- Baseline data collection area to date
- Surface Watercourses
- Allotments
- Commercial / Industrial
- Mixed Use - Property & Public Open Space
- Public Open Space
- Property - Agricultural
- Property - Infrastructure
- Residential
- Surface Water (ponds, lakes & reservoirs)



Key plan

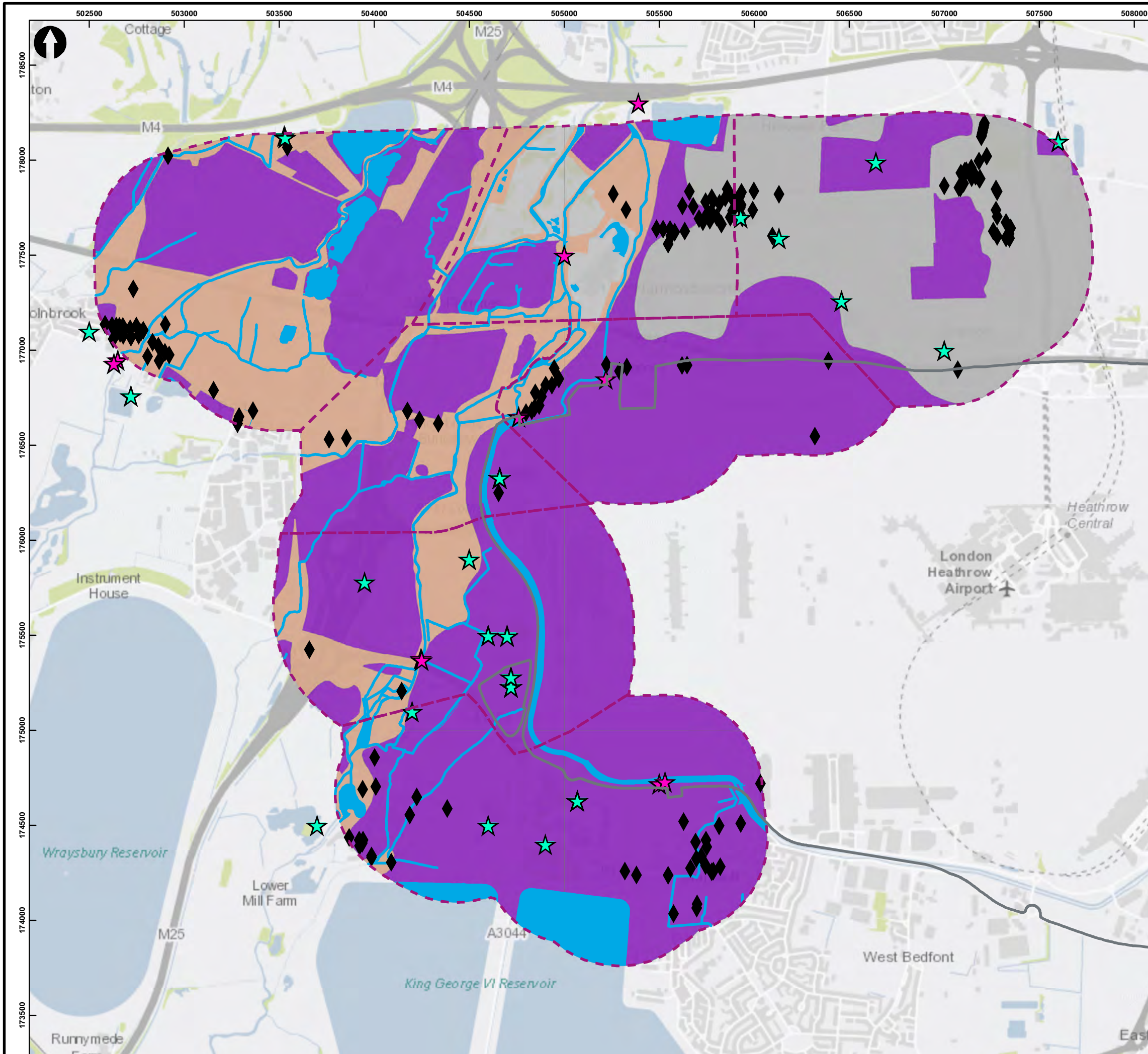


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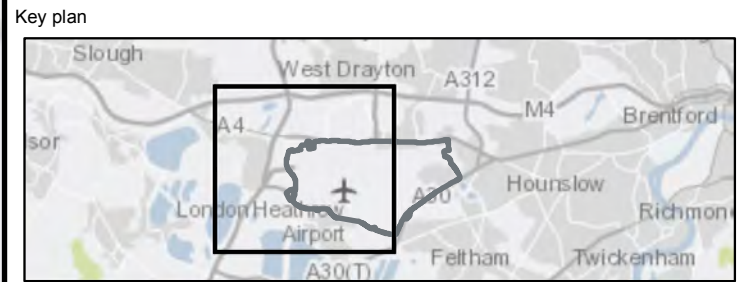
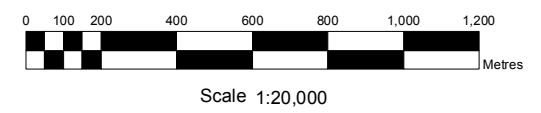
Title
 Figure 14.18: Current land use receptors

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000084				Version 1.0



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- Heathrow Planning Boundary
- Baseline data collection area to date
- Groundwater abstractions
- Surface water abstractions
- Historical wells and pumps

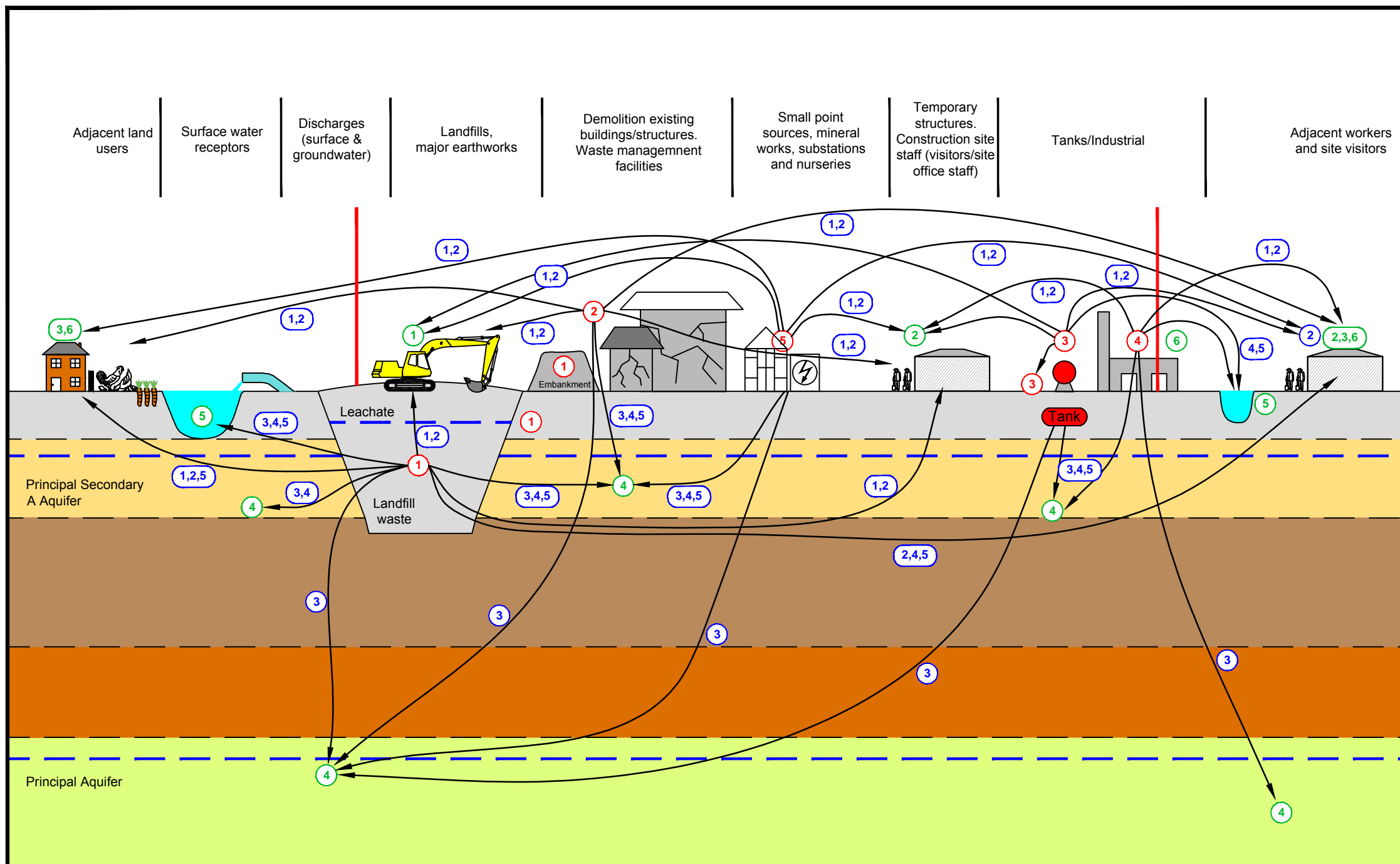


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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 14.19: Controlled waters receptors

Company Wood	Drawn By GRES	Chk/Approved RAINB	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000085				Version 1.0



- Development site boundary
- Made Ground
- Superficial deposits (predominantly sands and gravels)
- Thames Group (London Clay and Hawick Formations)
- Lambeth Group
- Chalk Group
- Groundwater

Sources

- Landfills / infilled ponds / earthworks - extensive areas of Made Ground
- Waste management facilities
- Oil / fuel storage or distribution facilities and tanks
- Industrial land, including factories, warehouses and railway land
- Small point sources of contamination identified on the site include electrical substations, mineral sites and nurseries

Pathways

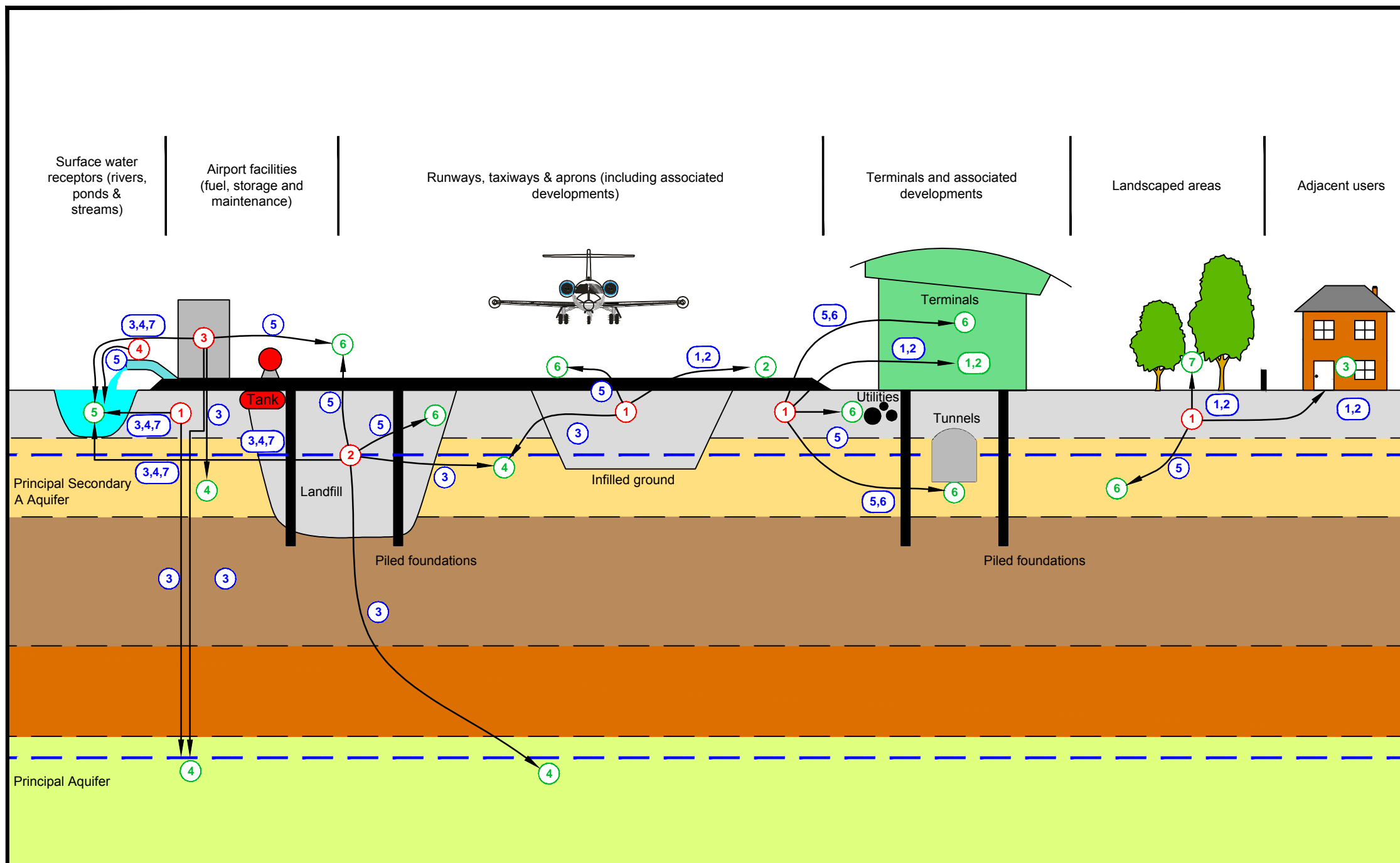
- Direct dermal contact, inhalation and ingestion of soil and of soil dusts
- Migration / exposure to asphyxiating or explosive ground gases
- Leaching through unsaturated and saturated zones
- Lateral migration through saturated zone, drainage and utilities
- Direct contact, surface run off or discharges

Receptors

- Construction Workers (outdoor workers)
- Construction Site Staff (office based designers and managers)
- Adjacent land users (residential and commercial)
- Water environment - superficial aquifers (Principal and Secondary A Aquifers) and groundwater abstractions
- Water environment - surface water and surface water abstractions
- Property (including buildings, utilities and infrastructure).



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Project Name Heathrow Expansion Project		Heathrow Project No. HEP53		
Title Figure 14.20: Conceptual site model - construction phase				
Company Wood	Drawn By SQUIJ	Chk/Approved RAINB	Drawn Date 19/03/18	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000086				Version 1.0



- Made Ground
- Superficial deposits (predominantly sands and gravels)
- Thames Group (London Clay and Hawick Formations)
- Lambeth Group
- Chalk Group
- Groundwater

Sources

- 1 Made Ground associated with historical sources and earthworks
- 2 Landfills
- 3 Airport facilities
- 4 Discharges

Pathways

- 1 Dermal contact, inhalation and ingestion of soil and soil dusts
- 2 Inhalation of gases and vapours
- 3 Leaching through saturated and unsaturated zone
- 4 Lateral migration through saturates zone and utilities
- 5 Direct contact and discharge
- 6 Gas migration and accumulation
- 7 Migration via drainage

Receptors

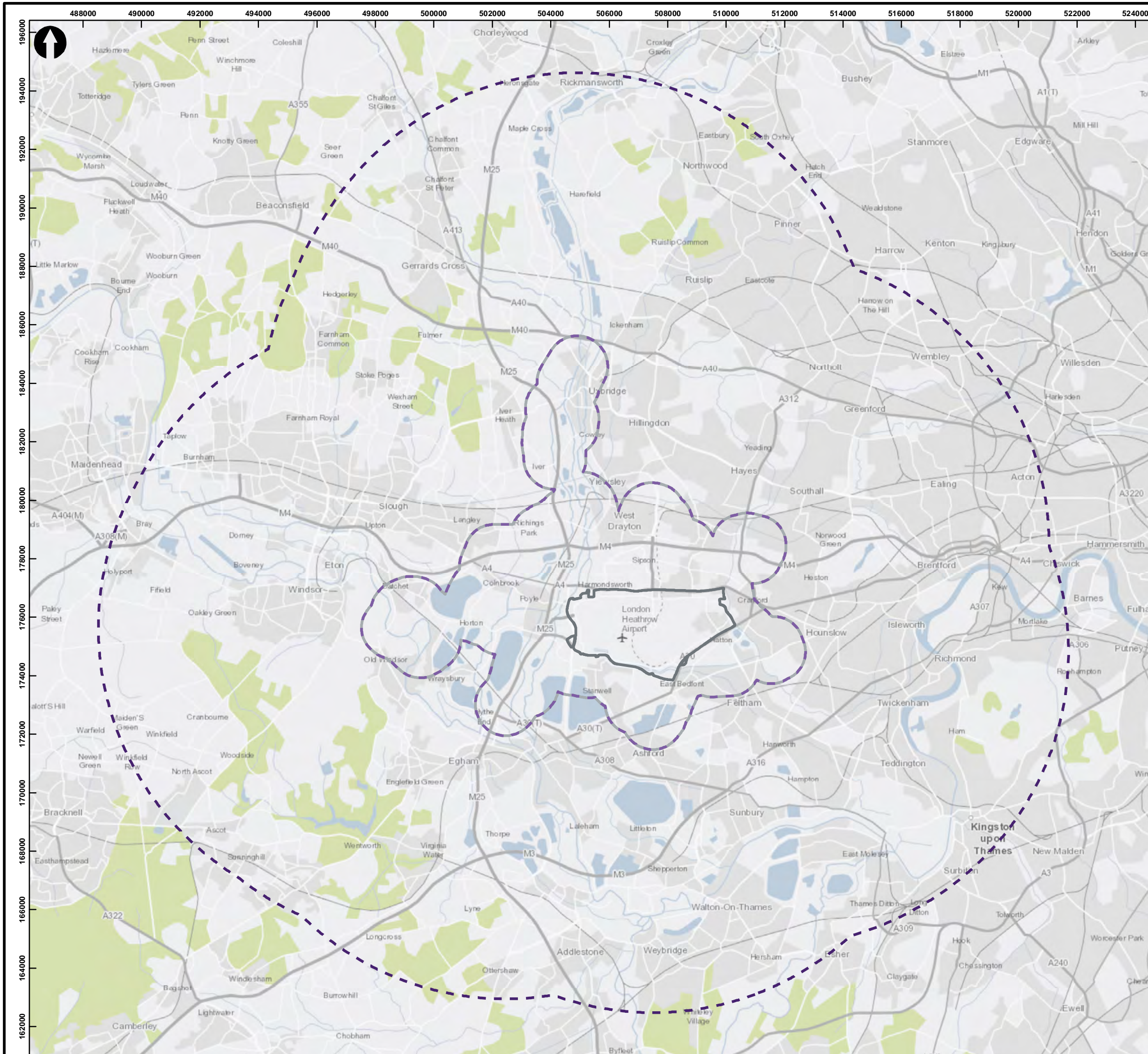
- 1 Future site users (commercial/industrial)
- 2 Future site users (maintenance and construction workers)
- 3 Future Adjacent land users (residential with gardens)
- 4 Water environment - Principal and Secondary A Aquifers
- 5 Water environment - surface water
- 6 Future property (including buildings, utilities and infrastructure)
- 7 Future property (landscaped areas)

Heathrow




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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

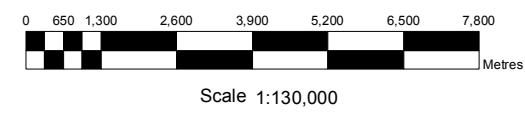
Title
Figure 14.21: Conceptual site model - future use

Company Wood	Drawn By SQUIJ	Chk/Approved RAINB	Drawn Date 19/03/18	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000087				Version 1.0



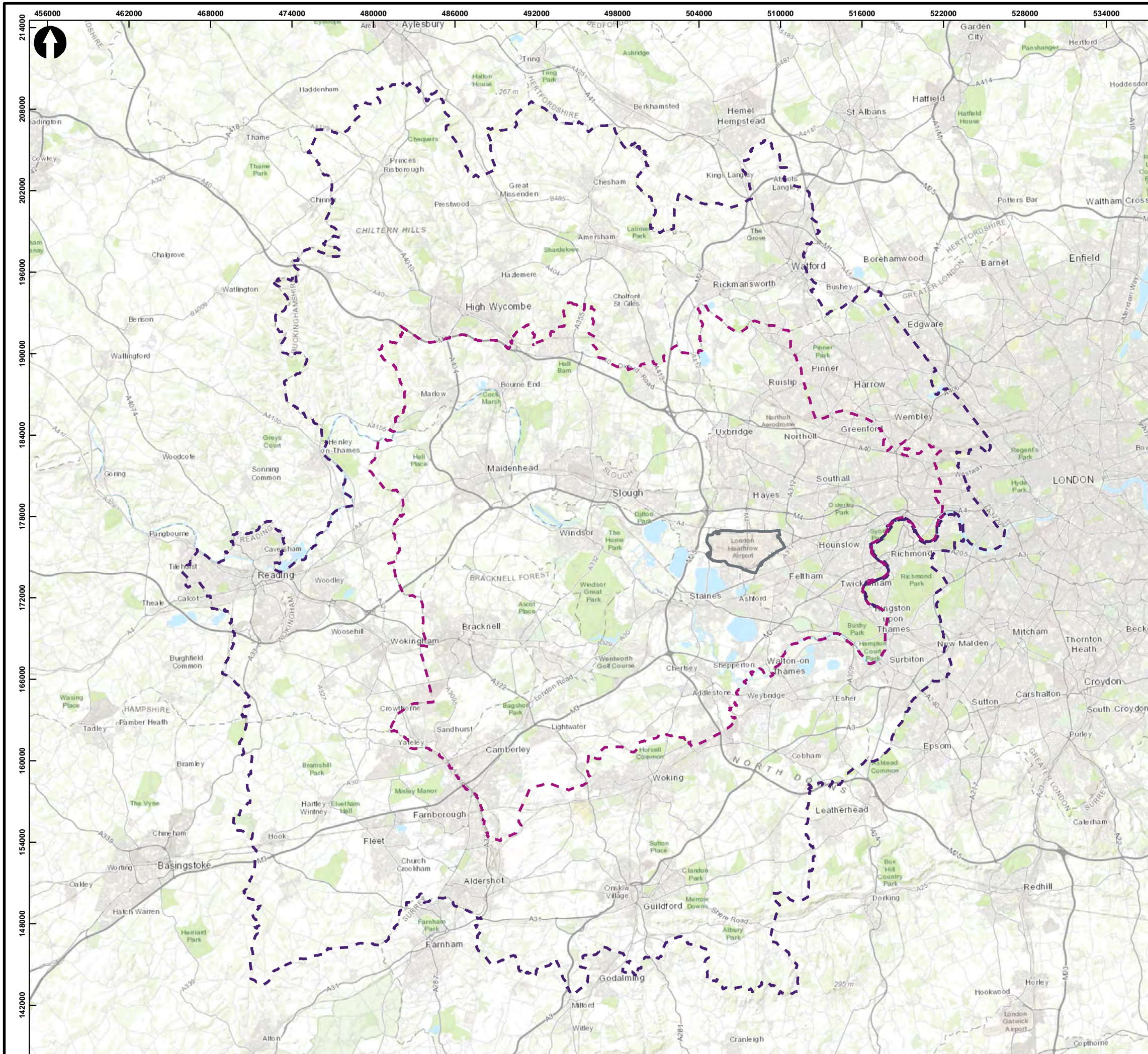
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-  Heathrow Planning Boundary
-  Illustrative major accidents and disasters study area for human population, cultural heritage, land-based and groundwater receptors
-  Illustrative major accidents and disasters study area for surface water and associated receptors






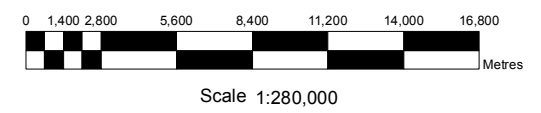
Heathrow

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Project Name Heathrow Expansion Project				Heathrow Project No. HEP53
Title Figure 15.1: Major accidents and disasters study areas				
Company Wood	Drawn By GRES	Chk/Approved DAVYJ	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000088				Version 1.0



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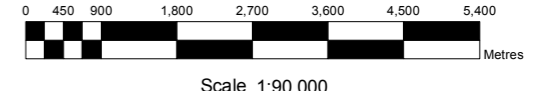
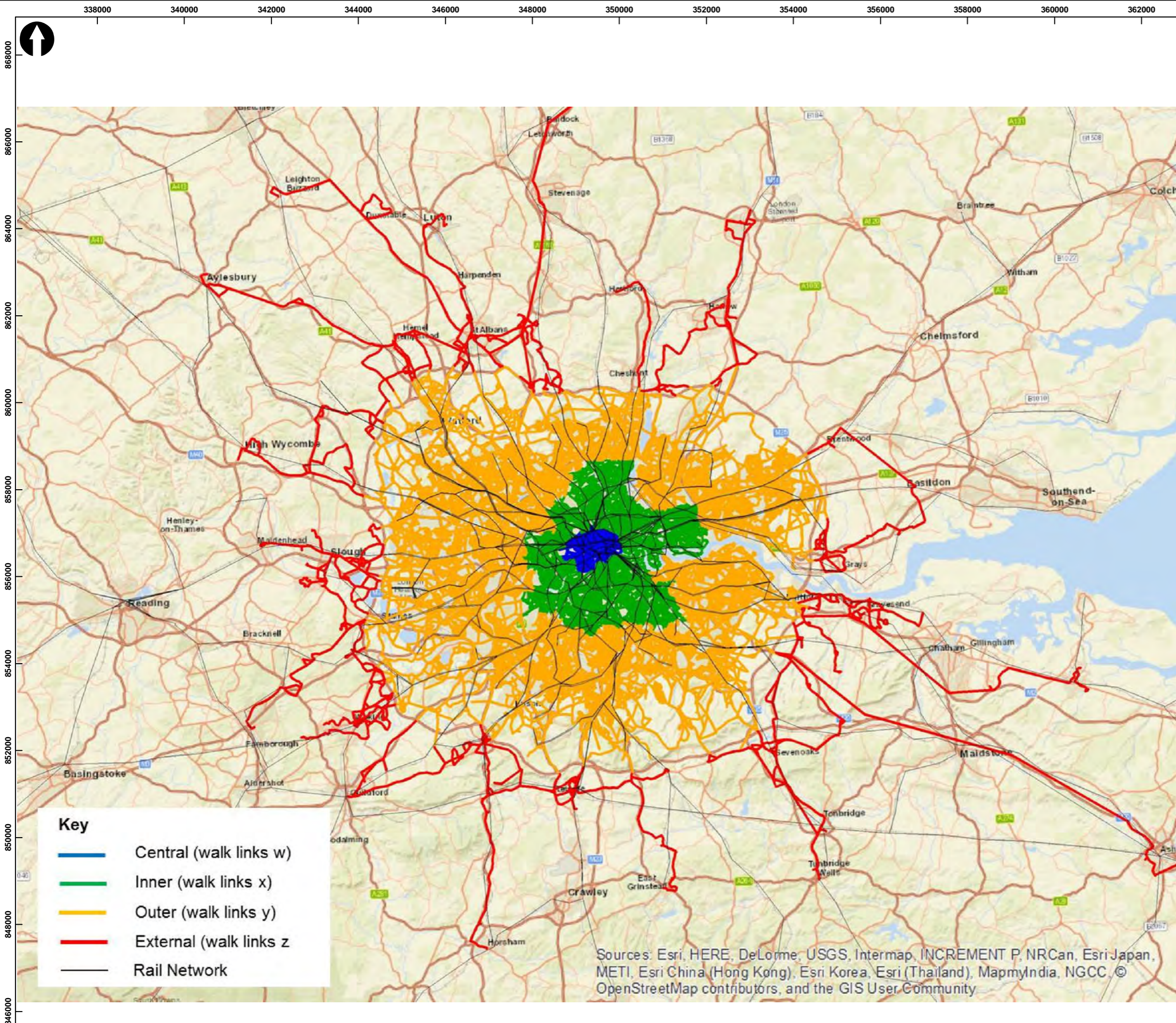
-  Heathrow Planning Boundary
-  Area of detailed modelling
-  Rest of fully modelled area



Heathrow

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Project Name Heathrow Expansion Project		Heathrow Project No. HEP53		
Title Figure 17.1: Highways: Extent of HHASAM fully modelled area				
Company Wood	Drawn By BUTLS	Chk/Approved ELLAC	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000089				Version 1.0

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Key

- Central (walk links w)
- Inner (walk links x)
- Outer (walk links y)
- External (walk links z)
- Rail Network

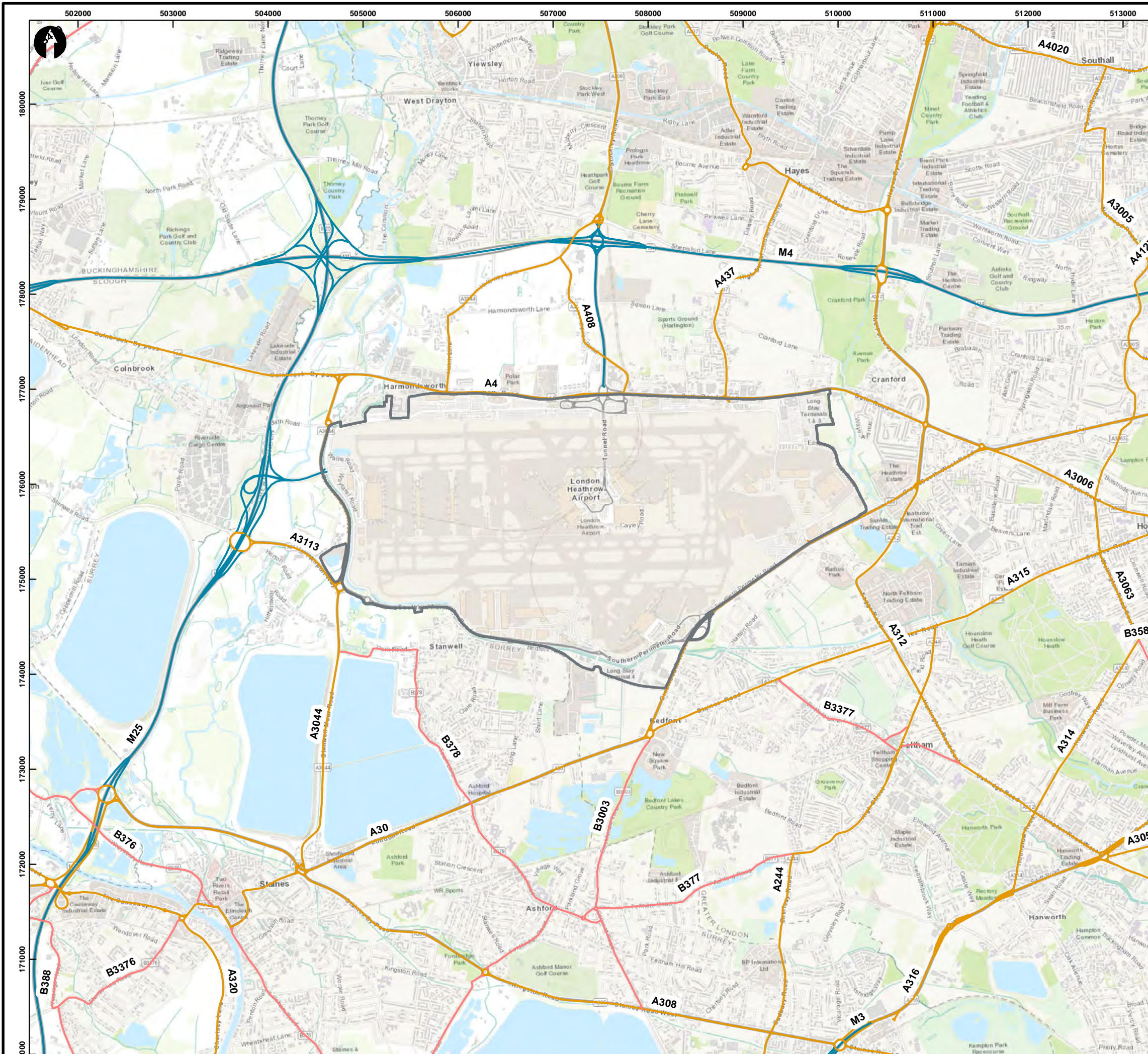
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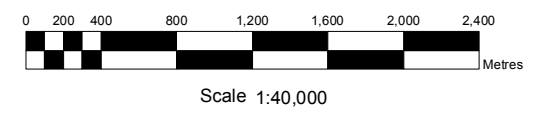
Title
 Figure 17.2: Public Transport: Extent of Railplan model

Company Wood	Drawn By GOORN	Chk/Approved ELLAC	Drawn Date 21/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000090				Version 1.0



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-  Heathrow Planning Boundary
-  Motorway
-  A Road
-  B Road

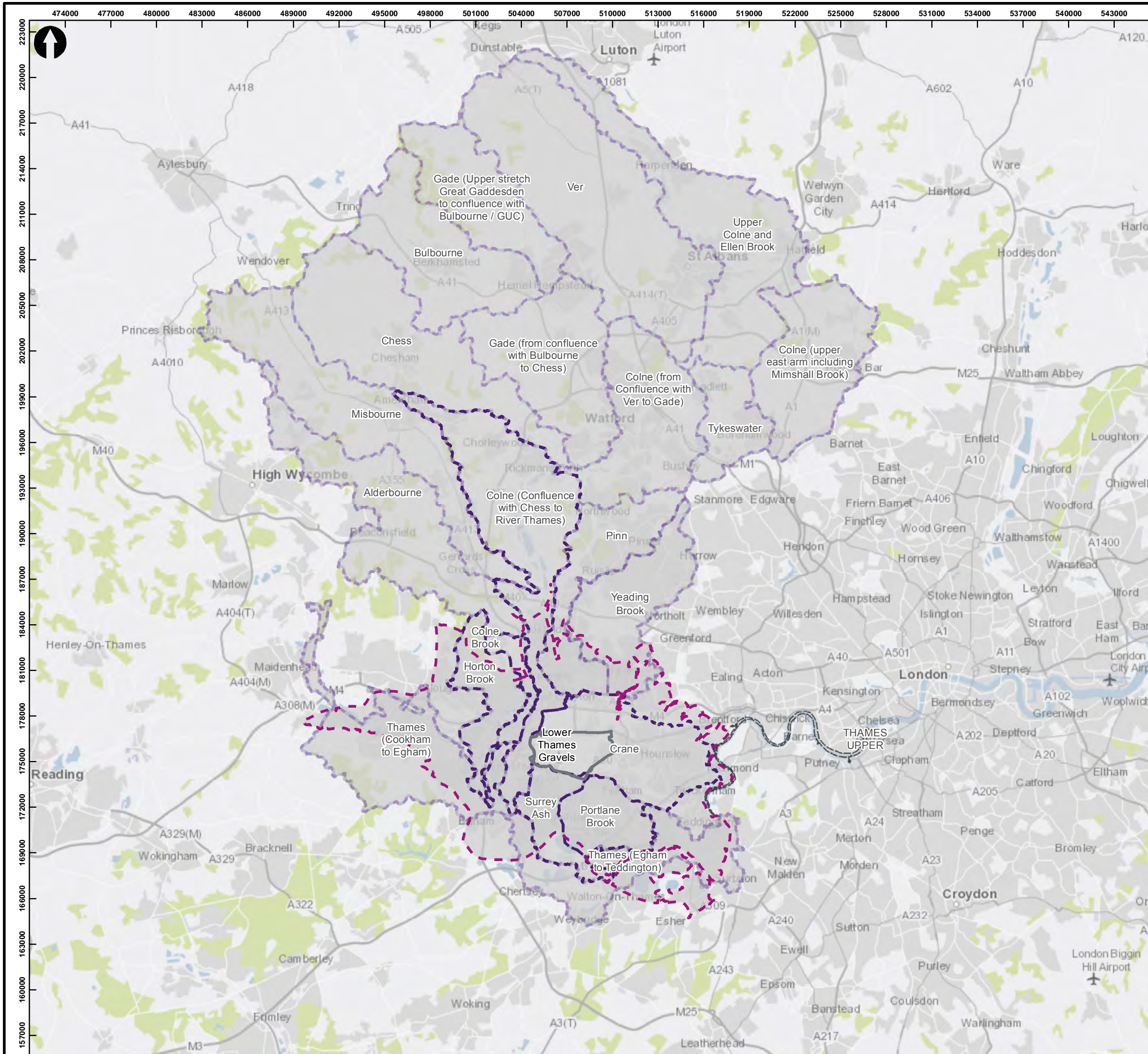


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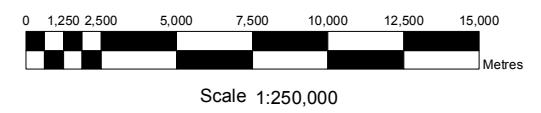
Title
 Figure 17.3: Existing road infrastructure surrounding Heathrow

Company Wood	Drawn By BUTLS	Chk/Approved ELLAC	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000091				Version 1.0



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-  Heathrow Planning Boundary
-  Groundwater study area
-  Local surface water study area
-  Wider surface water study area

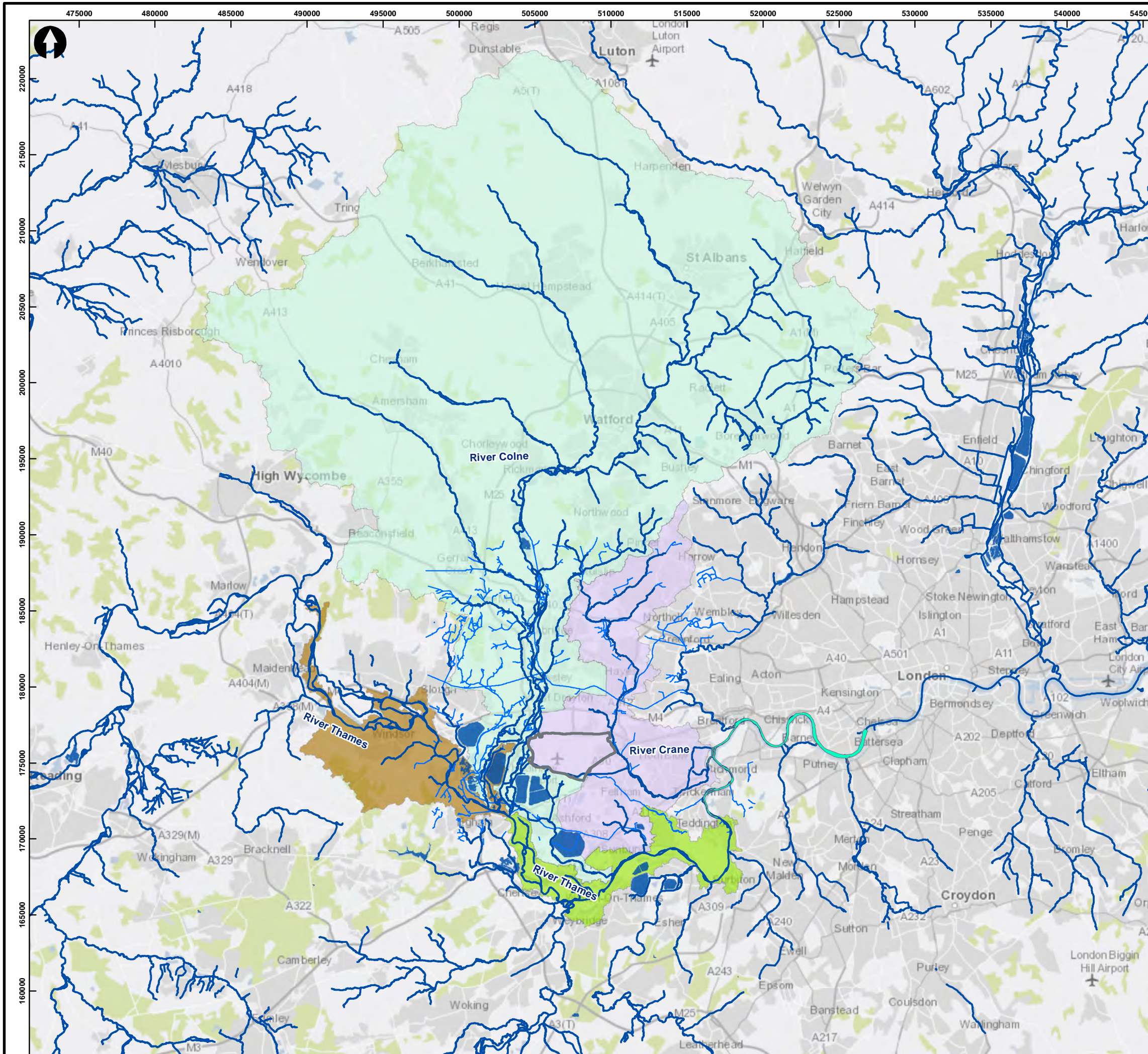


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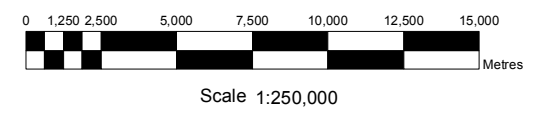
Title
Figure 18.1: Water environment study areas

Company Wood	Drawn By EASTR	Chk/Approved WILLH	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000092				Version 1.0



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- Heathrow Planning Boundary
- Watercourses
- EA Main Rivers
- Lakes designated as WFD water bodies
- Colne catchment
- Crane catchment
- Thames (Cookham to Egham) catchment
- Thames (Egham to Teddington) catchment
- Tidal Thames (Thames Upper water body)

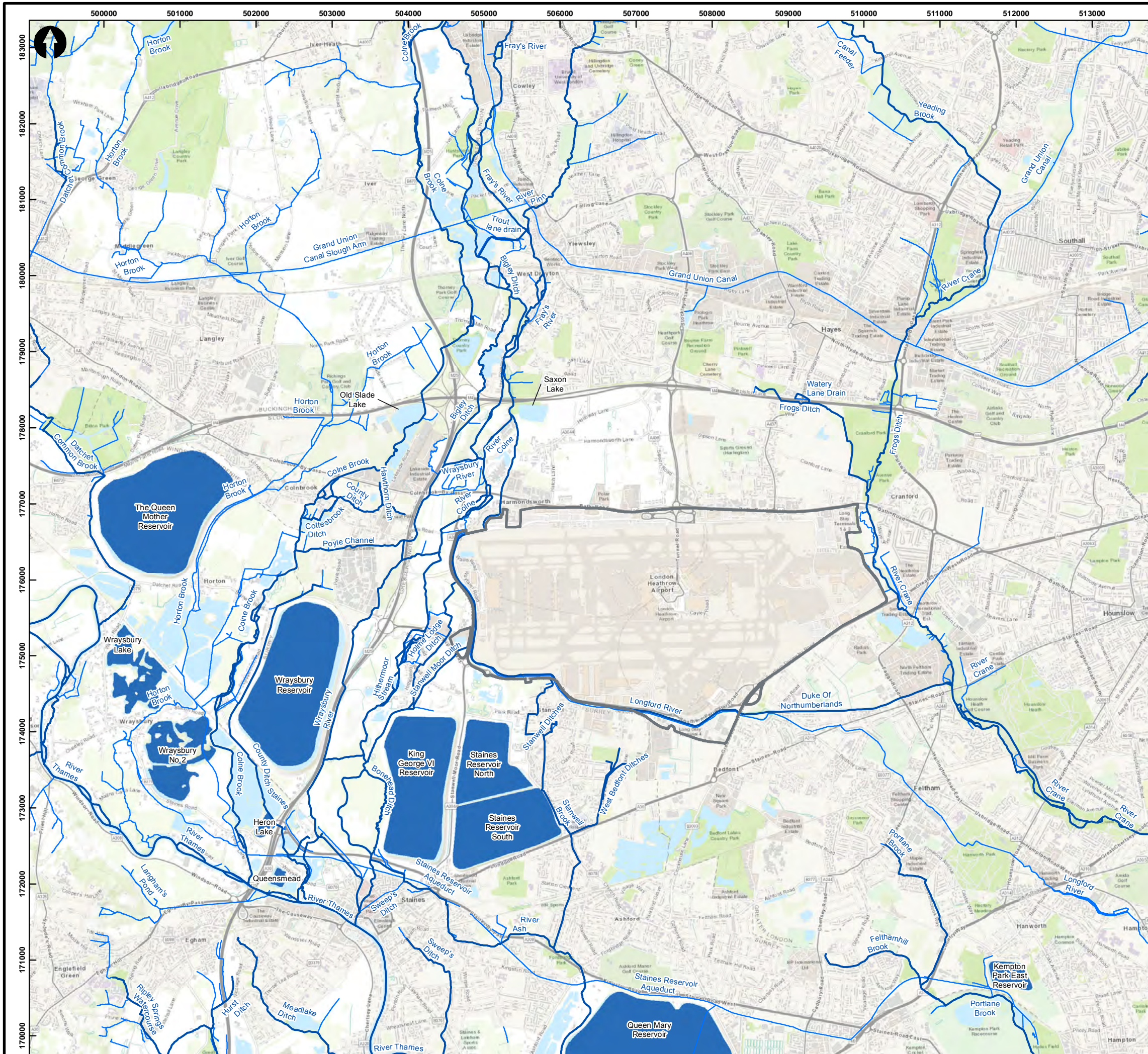


Heathrow





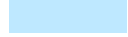
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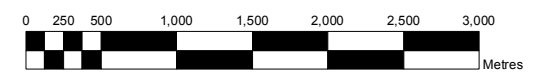
Title
Figure 18.2: Surface water features

Company Wood	Drawn By EASTR	Chk/Approved WILLH	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000093				Version 1.0



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-  Heathrow Planning Boundary
-  EA Main Rivers
-  Watercourses
-  Lakes designated as WFD water bodies
-  Other lakes



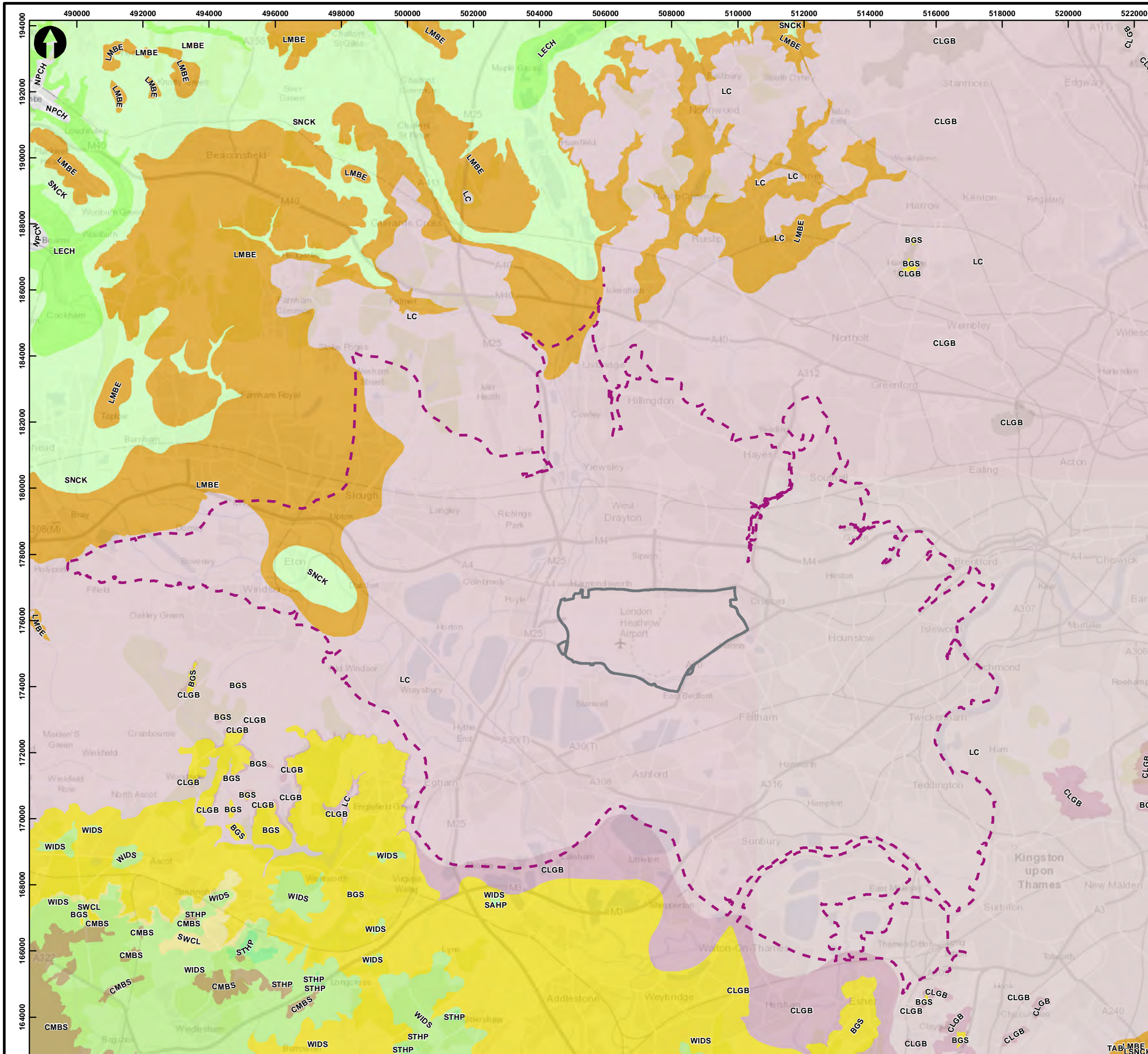
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Title
Figure 18.3: Surface water features local to the DCO Project

Company Wood	Drawn By EASTR	Chk/Approved WILLH	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000094				Version 1.0



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Legend

- Heathrow Planning Boundary
- Groundwater study area

Bracklesham Group

- CMBS Camberley Sand Formation - Sand
- WIDS Windlesham Formation - Sand, Silt and Clay
- STHP Stanners Hill Pebble Bed - Gravel
- BGS Bagshot Formation - Sand
- SWCL Swinley Clay - Clay
- SAHP St Ann's Hill Pebble Bed Member - Gravel

Thames Group

- CLGB Claygate Member of London Clay Formation - Sand, Silt and Clay
- LC London Clay Formation - Clay, Silt and Sand

Lambeth Group

- LMBE Lambeth Group - Clay, Silt and Sand

Chalk Group - White Chalk Subgroup

- SNCK Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)
- LECH Lewes Nodular Chalk Formation

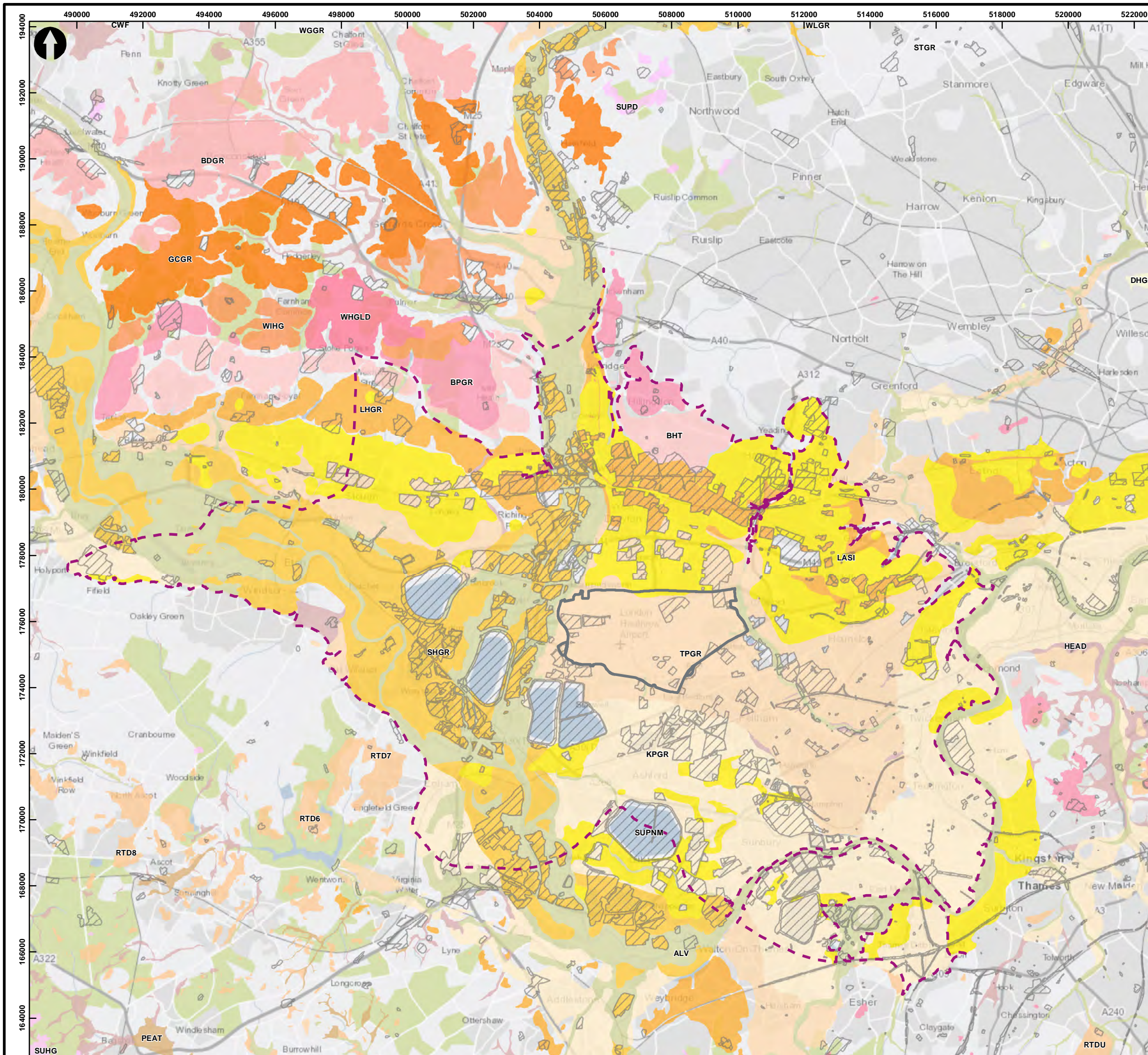
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 18.4: Solid geology

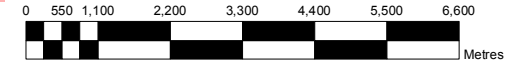
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- Heathrow Planning Boundary
- Groundwater study area
- Artificial ground
- ALV Alluvium - Clay, Silt, Sand, Gravel and Peat
- HEAD Head - Gravel, Sand, Silt and Clay
- PEAT Peat
- RTD River Terrace Deposits 6, 7, 8 - Sand
- RTDU River Terrace Deposits (Undifferentiated) - Sand and Gravel
- LASI Langley Silt Member - Clay and Silt
- SHGR Shepperton Gravel Member - Sand and Gravel
- KPGR Kempton Park Gravel Member - Sand and Gravel
- TPGR Taplow Gravel Member - Sand and Gravel
- LHGR Lynch Hill Gravel Member - Sand and Gravel
- BHT Boyn Hill Gravel Member - Sand and Gravel
- BPGR Black Park Gravel Member - Sand and Gravel
- WHGLD Winter Hill Gravel (Lacustrine Deposits) - Sand and Gravel
- WIHG Winter Hill Gravel - Sand and Gravel
- GCGR Gerrards Cross Gravel - Sand and Gravel
- BDGR Beaconsfield Gravel - Sand and Gravel



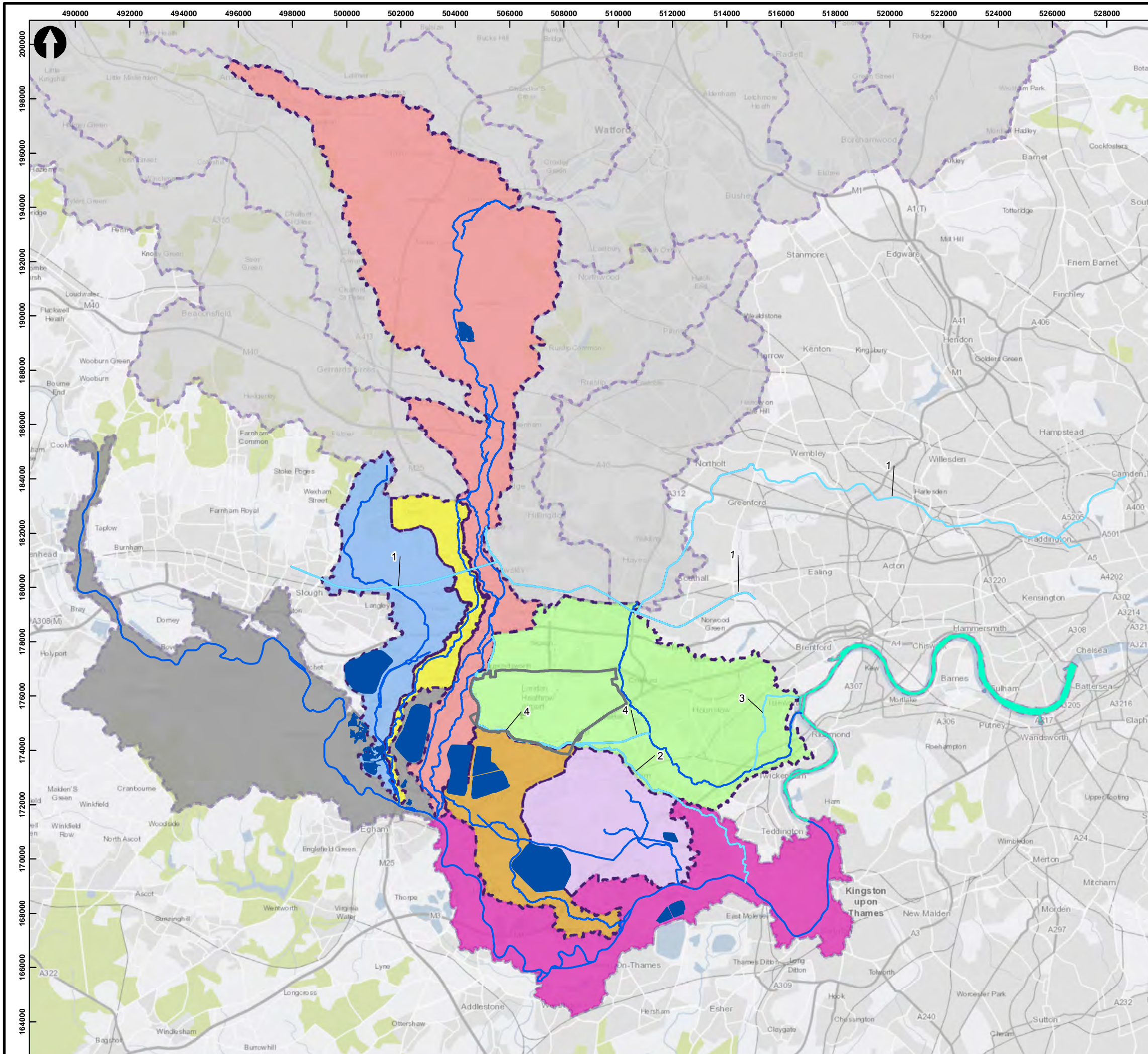
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 18.5: Superficial geology

Company Wood	Drawn By EASTR	Chk/Approved WILLH	Drawn Date 10/05/2018	Status FINAL
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Legend

- Heathrow Planning Boundary
- Local surface water study area
- Wider surface water study area

WFD River Water Body Catchments

- Colne (Confluence with Chess to River Thames)
- Colne Brook
- Crane
- Horton Brook
- Portlane Brook
- Surrey Ash
- Thames (Cookham to Egham)
- Thames (Egham to Teddington)
- Main rivers

WFD Canal and Surface Water Transfer Water Bodies

- 1. Grand Union Canal, Uxbridge to Hanwell Locks, Slough Arm, Paddington Arm
- 2. Longford River
- 3. Lower Duke of Northumberland's River
- 4. Upper Duke of Northumberland's River

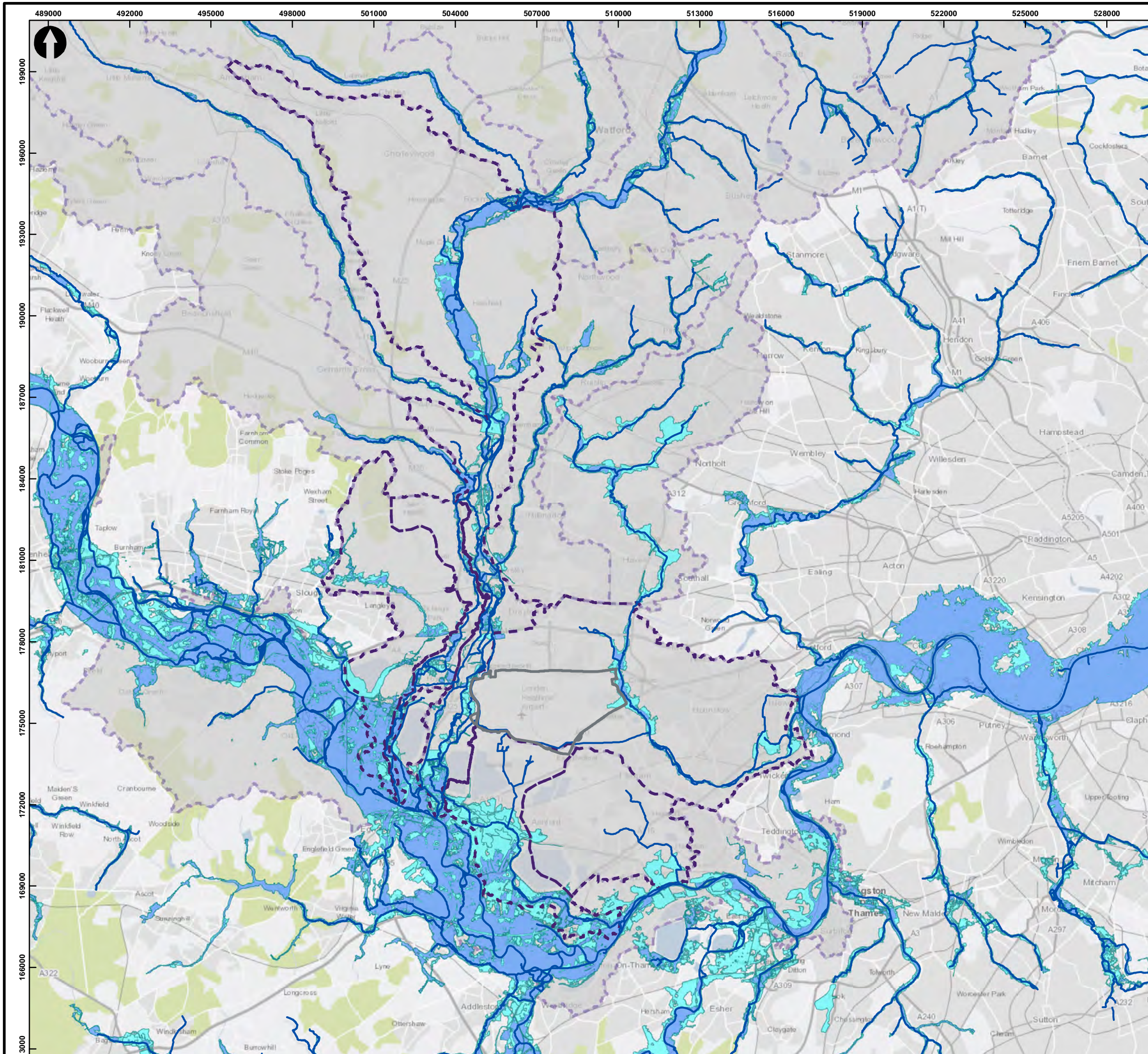
Other water body types

- Lake water bodies
- Thames Upper Transitional Water Body

Scale 1:140,000

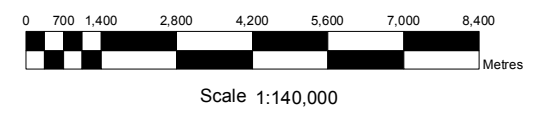
Heathrow

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Project Name Heathrow Expansion Project		Heathrow Project No. HEP53		
Title Figure 18.6: WFD water bodies				
Company Wood	Drawn By EASTR	Chk/Approved WILLH	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000097				Version 1.0



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- Heathrow Planning Boundary
- Local surface water study area
- Wider surface water study area
- EA Main Rivers
- Flood Zone 3
- Flood Zone 2

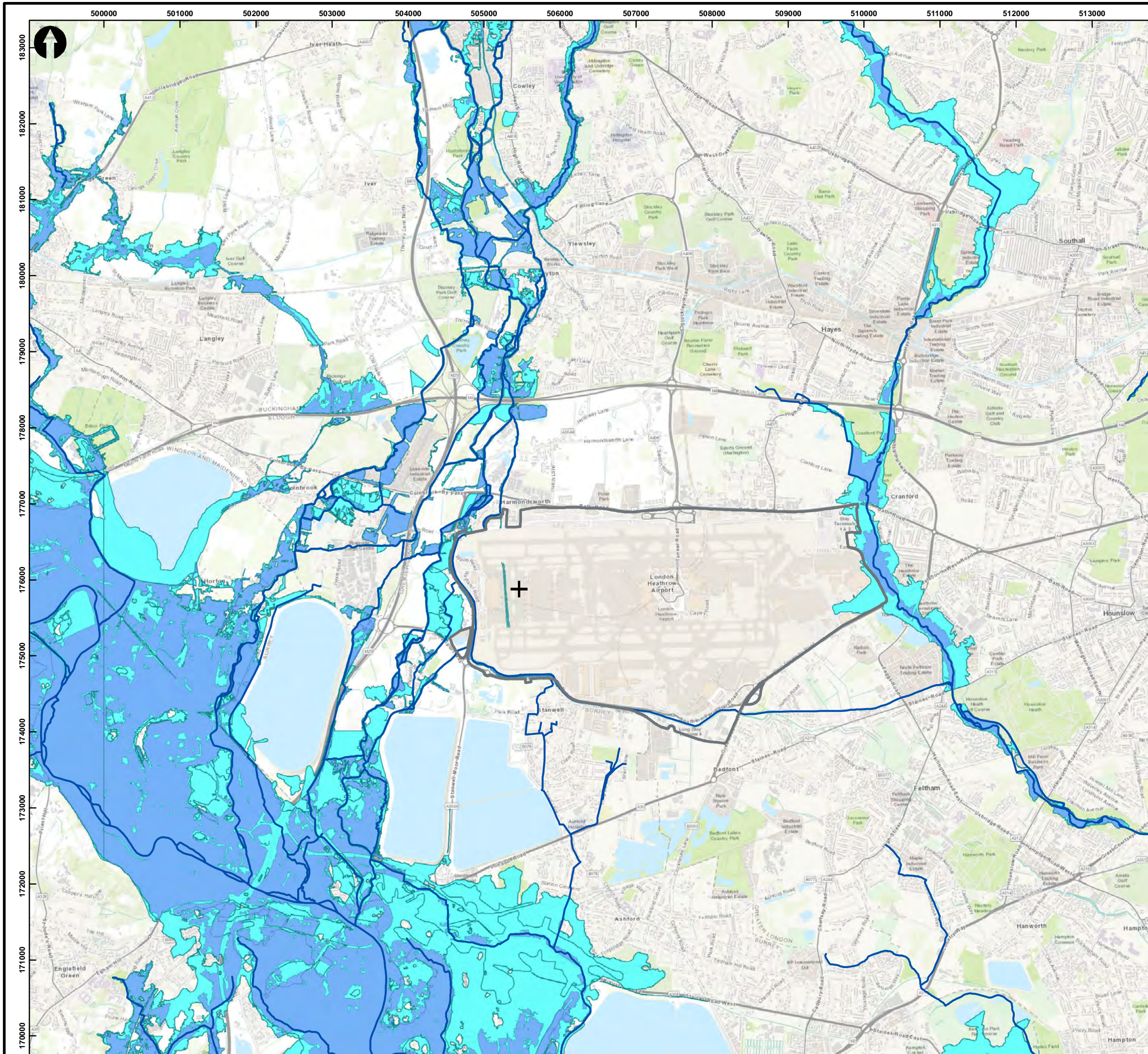


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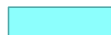
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
Figure 18.7: Fluvial flood risk

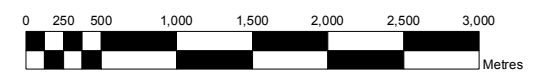
Company Wood	Drawn By EASTR	Chk/Approved WILLH	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000098				Version 1.0



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-  Heathrow Planning Boundary
-  EA Main Rivers
-  Flood Zone 3
-  Flood Zone 2

+ *This mapped strip of flood zone is associated with the historic route of the Twin Rivers. It is not thought to be applicable in the present day*



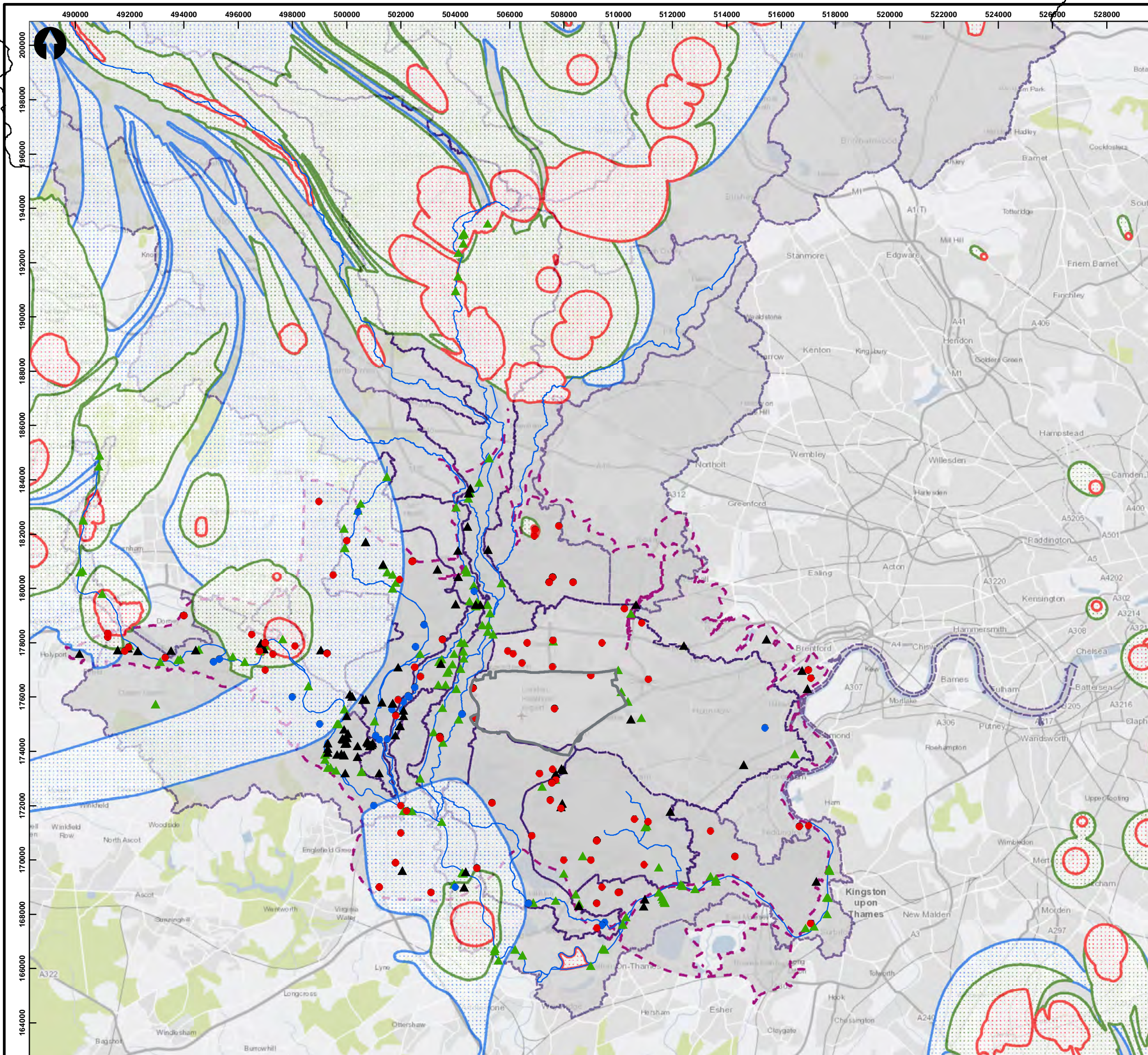
Scale 1:50,000

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Title
Figure 18.8: Fluvial flood risk local to the DCO project

Company Wood	Drawn By EASTR	Chk/Approved WILLH	Drawn Date 10/05/2018	Status FINAL
Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000099				Version 1.0

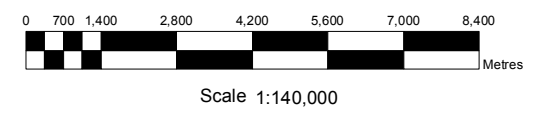


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- Heathrow Planning Boundary
- Groundwater study area
- Local surface water study area
- Wider surface water study area
- WFD rivers
- Groundwater Abstractions
- Groundwater Discharges
- Surface water Abstractions
- Surface water Discharges

- Source Protection Zones**
- Zone I - Inner Protection Zone
 - Zone II - Outer Protection Zone
 - Zone III - Total Catchment

Only showing abstractions within the GWSA



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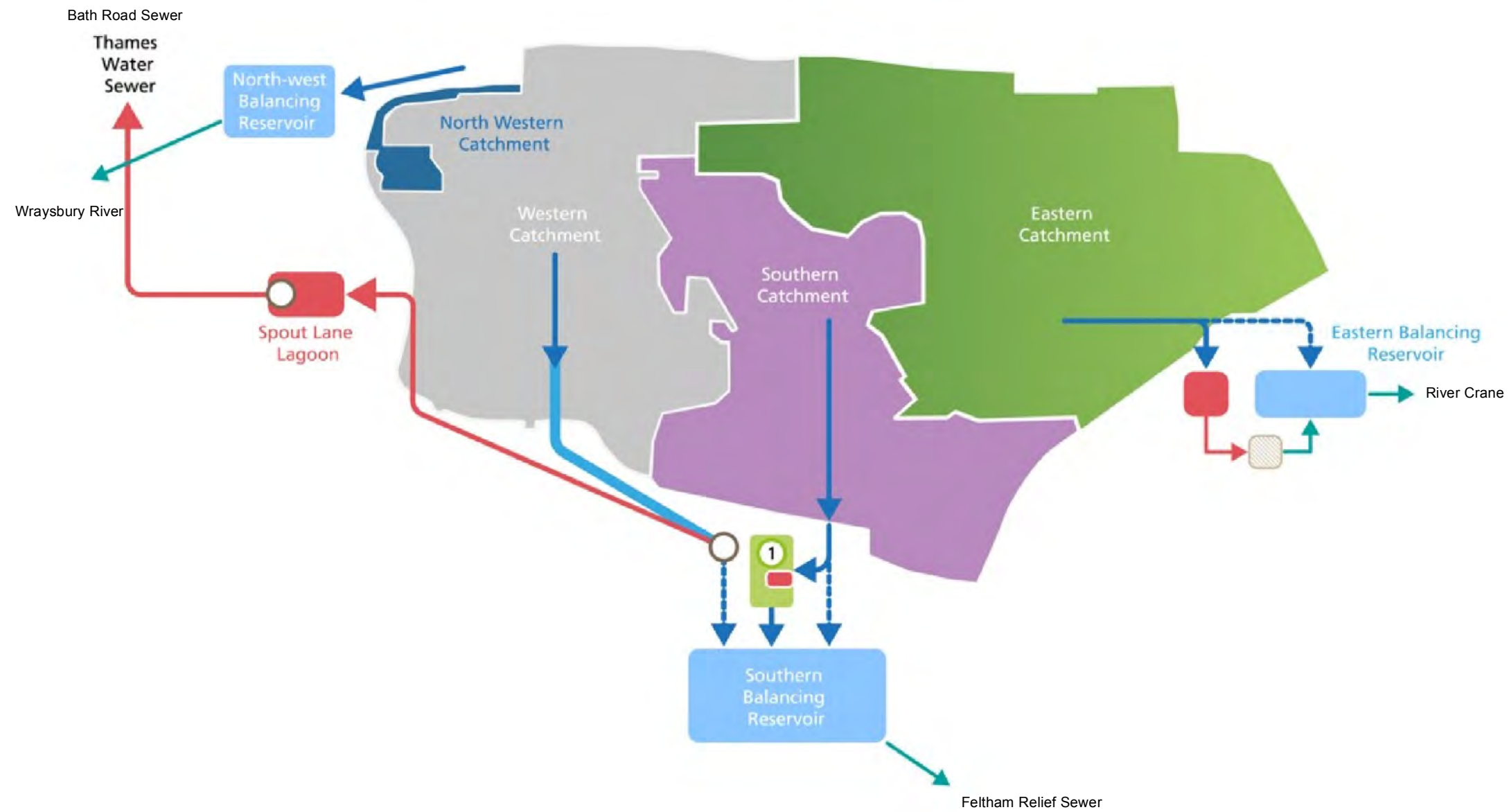
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Project Name Heathrow Expansion Project	Heathrow Project No. HEP53

Title
 Figure 18.9: Locations of abstractions and discharges

Company Wood	Drawn By EASTR	Chk/Approved WILLH	Drawn Date 11/05/2018	Status FINAL
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Key

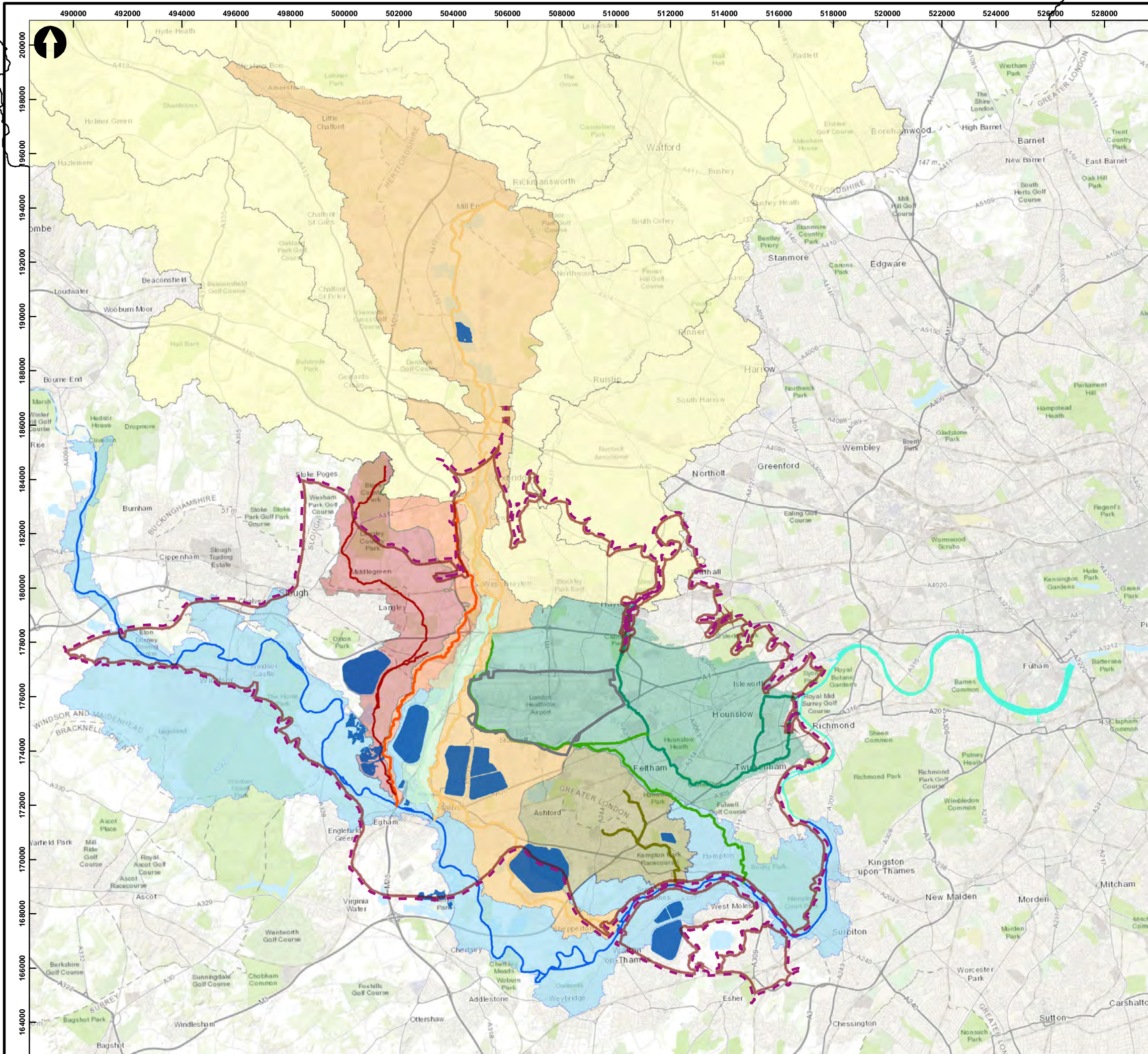
- Main Drainage
- Storm Overflow
- ① Mayfield Farms Treatment
- Contaminated flow Lagoon
- Major Storm Attenuation
- Existing Engineered Reedbed Treatment
- New Treatment Facility (already planned)
- Storm Water Outfall Tunnel (SWOT)
- Pump Station
- Contaminated Flow
- Clean Discharge

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Title Figure 18.10: Overview of the drainage system at the existing Airport				
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000101				Version 1.0
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Heathrow Planning Boundary

Groundwater study area

- WE1 Horton Brook
- WE2 Colne Brook
- WE3 Wraysbury River
- WE4 River Colne
- WE5 Twin Rivers
- WE6 Portlane Brook
- WE7 River Crane
- WE8 Freshwater River Thames
- WE9 Upper River Colne
- WE10 Reservoirs
- WE11 Lower Thames Gravels
- WE12 Bedrock aquifers (beneath WE11)
- WE13 Local water supply and foul drainage infrastructure (within and in the vicinity of existing Heathrow boundary)
- WE14 Tidal River Thames

0 700 1,400 2,800 4,200 5,600 7,000 8,400 Metres
 Scale 1:140,000



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Project Name Heathrow Expansion Project				Heathrow Project No. HEP53
Title Figure 18.11: Receptor groups				
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Location-Level-Sub Series/System-Identifier HEP53-XX-GA-XXX-000102				Version 1.0