



# Botley West Solar Farm

Environmental Statement

**Volume 3**

**Appendix 7.2: Assessment of airborne remote sensing  
and satellite imagery for archaeology of the PEIR**

November 2024

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**BOTLEY WEST**

**SOLAR FARM**

**OXFORDSHIRE**

Assessment of Airborne Remote Sensing Data  
and Satellite Imagery for Archaeology

Coordinates 445865, 204875 to 445783, 221604

Project reference APS 222 10 01, RPS JAC27959



# BOTLEY WEST SOLAR FARM, OXFORDSHIRE

## Assessment of Airborne Remote Sensing Data and Satellite Imagery for Archaeology

|  |  |
|--|--|
| Client   | RPS Heritage Ltd on behalf of Photovolt<br>Development Partners (PVDP) |
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APS 222 10 01 Botley West Solar Farm

Assessment of Airborne Remote Sensing Data and Satellite Imagery for Archaeology

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## Summary


- S1. This assessment of aerial imagery considers land to the west of Botley in Oxfordshire which is being considered for development as a Solar Farm.
- S2. The object of this assessment was to provide information on the location and nature of buried and upstanding archaeological features which are visible on historic aerial photographs, modern aerial and satellite imagery and visualised Airborne Laser Scan (ALS) which is also known as Light Detection and Ranging (LiDAR) data to assess the buried, topographic and micro topographic features within the site.
- S3. Fifty four areas of archaeological interest were identified.
- S4. These include cropmarked evidence for prehistoric-Roman high and lower status buried settlement, access, funerary and agricultural sites. Scheduled areas lie adjacent to but not within the site areas.
- S5. Early Medieval settlement and funerary sites were noted adjacent to but not within the site areas.
- S6. No evidence was recorded for Medieval settlement within the site areas. Extensive systems of medieval and Post-Medieval fields and associated headlands and later boundaries were recorded principally *via* visualised LiDAR data.
- S7. Whilst all available data sources were consulted, it is likely that further survey or intrusive investigations will discover additional buried features to those recorded during this assessment. This is because the site areas lie within a varied and extensive archaeological landscape in an area which was conducive to past settlement due to its proximity to rivers and its largely well-drained and productive agricultural capacity to support past rural settlement.


# 1 Introduction: Project Aim and Objective

- 1.1. Air Photo Services Ltd (APS) is commissioned by RPS Heritage Ltd on behalf of Photovolt Development Partnership (PVDP) to undertake an assessment of airborne remote sensing and satellite imagery data at the site.
- 1.2. This assessment of considers land to the west of Botley in Oxfordshire which extend between UK National Grid References SP 458048 in the south and SP 45716 at the northern extent of the site areas. These areas equate to an extent between coordinates 445865,204875 and 445783,221604.
- 1.3. The site comprises three distinct areas of predominately agricultural land. The northern part of the site extends between the River Glyme, the A4260, and Woodstock. The central part of the site extends between the confluence of the A4095 and A44 to the south of Woodstock, to the east and south of Blenheim Park. The southern part of the site lies to the west of the A420 and to the southeast of Farmoor Reservoir, west of Dean Court and north of Cumnor, in the valley of the River Thames.
- 1.4. The site areas are shown on **Figure 1**.

Figure 01: Site Location




 Botley West  
 Assessment of Aerial Imagery  
 Client RPS Heritage on behalf of Photovoltaic Development Partners  
 Date April 2023  
 Project APS 222 10 01  
 By Adam Jarvis ACIfA

  
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**Figure 1** Location of the site areas

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 Assessment of Airborne Remote Sensing Data and Satellite Imagery for Archaeology  
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## Aim

- 1.5. The assessment aims to provide archaeological information by non-intrusive means to inform an assessment to support an application to develop the site as a Solar Farm.

## Objective

- 1.6. The objective of this assessment was to provide information on the location and nature of buried, relict and upstanding archaeological and historic landscape features using airborne remote sensing and satellite imagery data.



## 2. Sources of data

2.1. In summary the assessment examined the following sources of data:

- Historic aerial photographs at the Historic England (HE) Archive, **Figure 2** and the online catalogue of the Cambridge University Collection of Aerial Photographs (CUCAP) <sup>1</sup>, **Figure 3**. This archive is currently closed to consultation but the locations of the photos have been noted and selected images are held at HE;
- Thames Valley National Mapping Programme (TVNMP) data, over the southern part of the site are discussed below. The extent of these data within the southern site areas is illustrated on **Figure 4**;
- Aerial and satellite imagery available as open source multiple timelines of aerial photos and satellite imagery at [REDACTED] (Google Earth Pro) and Vexcel™ data at [REDACTED] aerial and birds-eye views;
- Visualised Airborne Laser Scan (ALS) which is also known as Light Detection And Ranging (LiDAR) data (UK Environment Agency open-source data). The type and extents of the LiDAR data are shown on **Figure 5**; and
- The Oxfordshire historic Environment Record (OHER) data.

### [National Mapping Programme data](#)

2.2. This assessment considers and presents raster<sup>2</sup> format mapping data over the southern parts of the site. These data which were generated by the Royal Commission on the Historic Monuments of England (RCHME)<sup>3</sup>, Thames Valley National Mapping Programme (NMP).

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<sup>1</sup> [REDACTED]

<sup>2</sup> In computer graphics and digital photography, a raster graphic represents a two-dimensional picture as a rectangular matrix or grid of square pixels, viewable *via* a computer display, paper, or other display medium.

<sup>3</sup> Now Historic England (HE).

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2.3. This pilot NMP project (Fenner and Dyer 1994 and 2017<sup>4</sup>) was undertaken between 20<sup>th</sup> September 1992 and 1<sup>st</sup> December 1993 using hand drawn non-digital mapping. This project did not map cropmarked eroded medieval fields, mineral extraction areas or 20<sup>th</sup> century military<sup>5</sup> remains. The Ordnance Survey (OS) quarter sheet NMP overlays which cover part of the area<sup>6</sup> are available from HE as scanned raster format georeferenced<sup>7</sup> files. These were uploaded to the project Geographic Information System (GIS<sup>8</sup>) for comparison to the original aerial photograph sources and full enhancement and completion, and from the 30 years' worth of additional data which were collected after the NMP project finished in 1993.

2.4. These NMP data are also available for viewing only at

[REDACTED]

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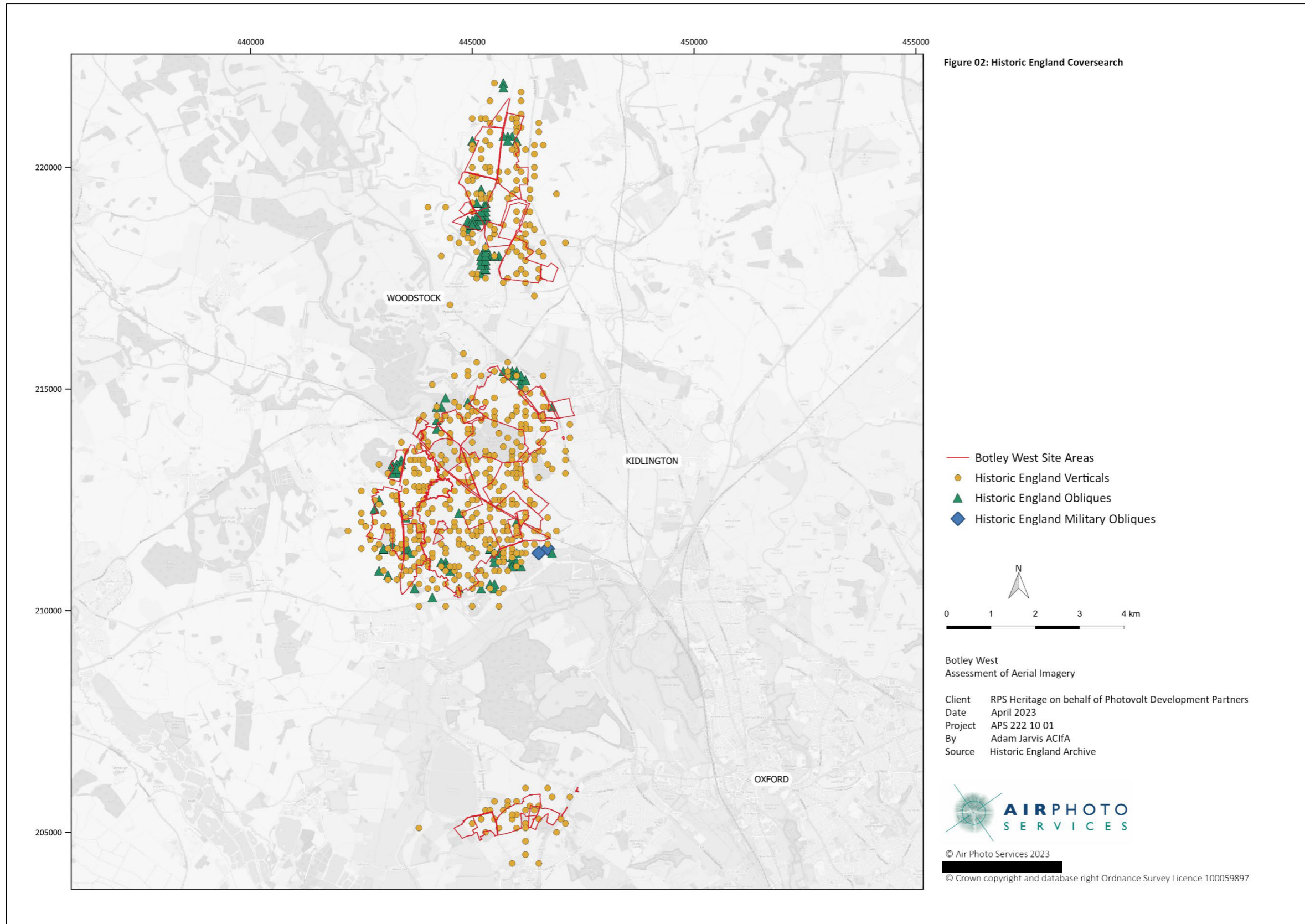
<sup>4</sup> [REDACTED]

<sup>5</sup> World War I, 1914-18; World War II 1939-45; and the Cold War, 1947-1991.

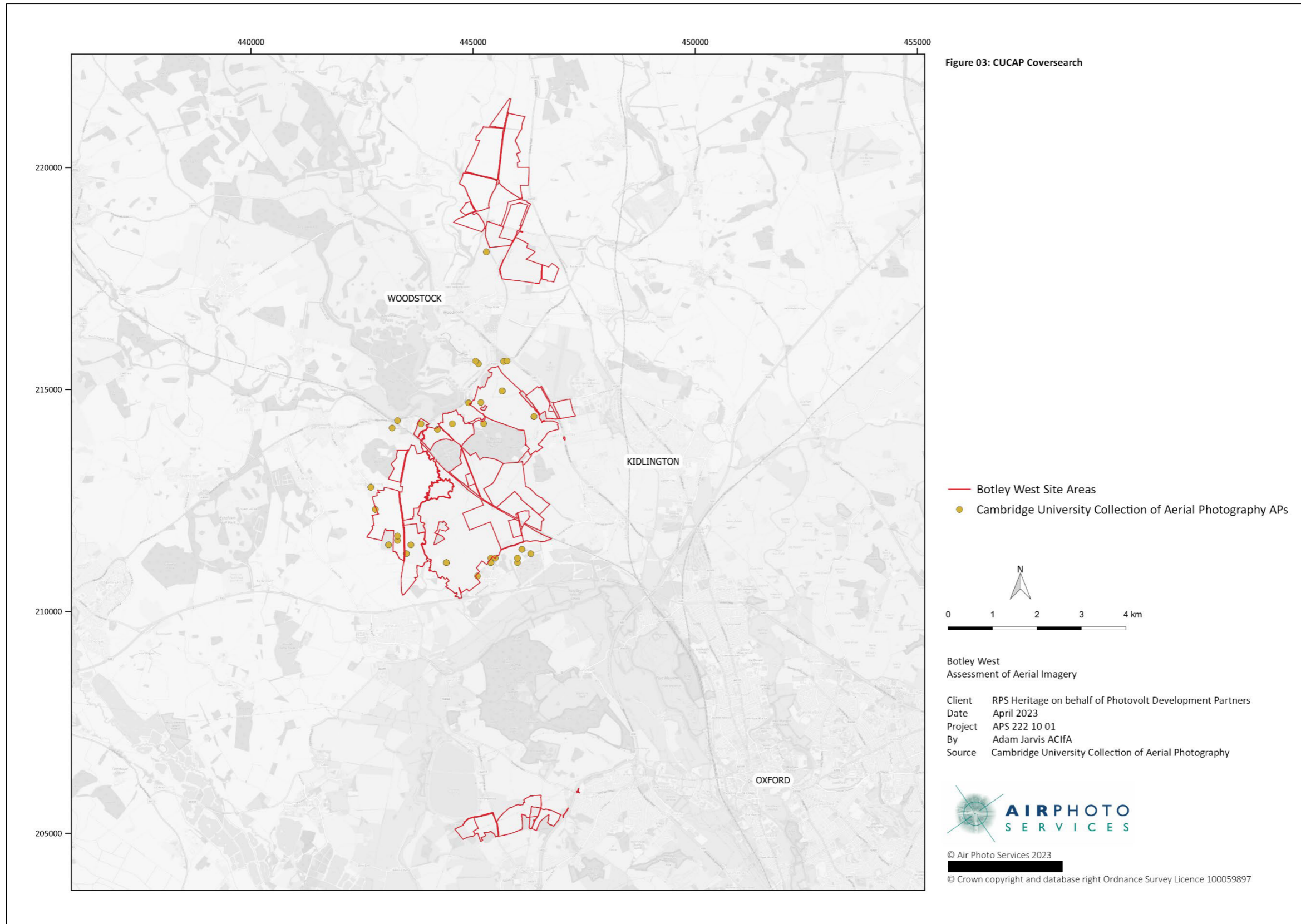
<sup>6</sup> SP40SW, NW, NE and SE, SP41SW and SE

<sup>7</sup> Georeferencing is a type of coordinate transformation that binds a digital raster image or vector database that represents a geographic space to a spatial reference system, thus is the geographic form of image registration.

<sup>8</sup> A computer system that analyses and displays geographically referenced information. It uses data that is attached to a unique location.



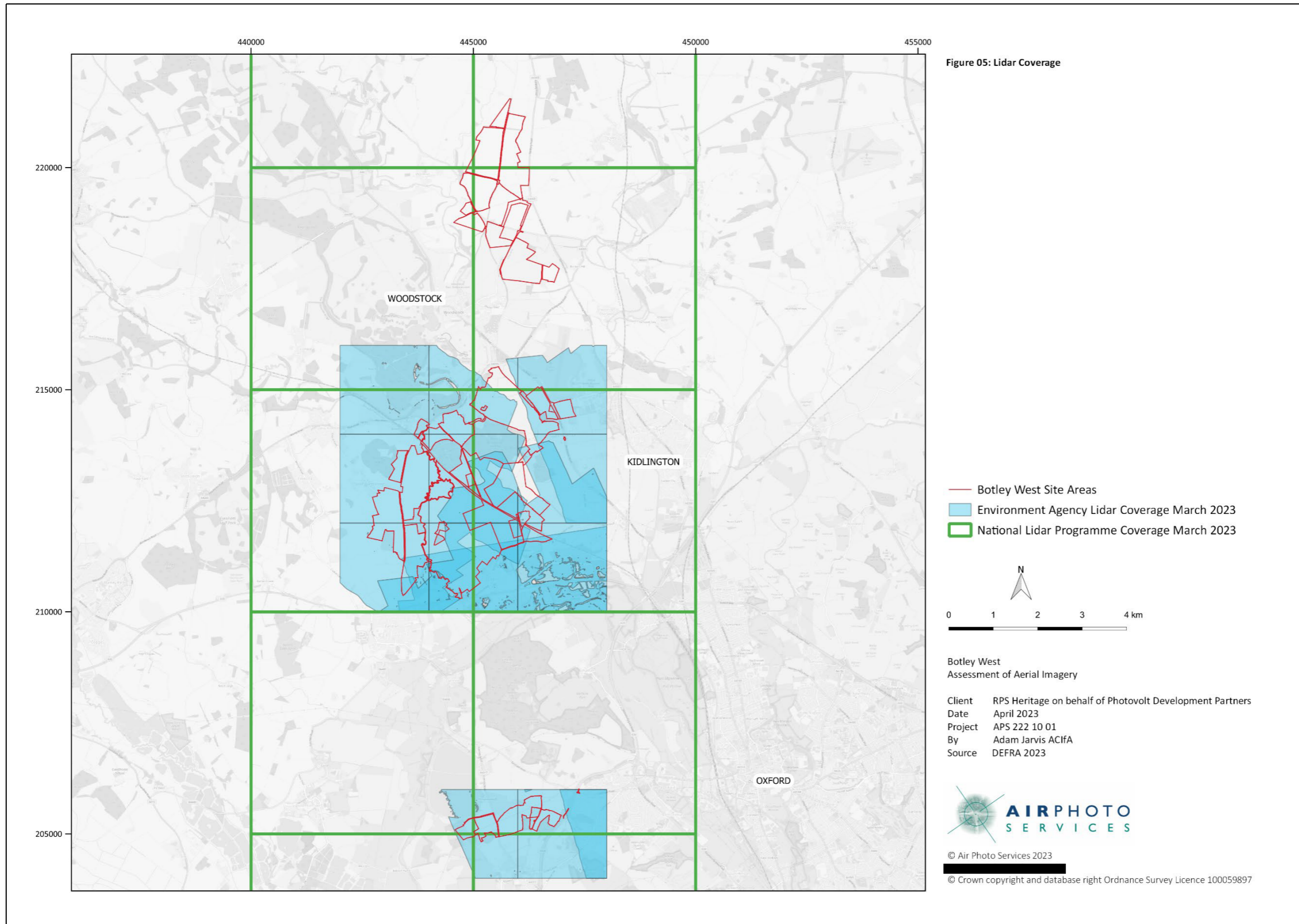
**Figure 2** Historic England Coversearch



**Figure 3** Cambridge University Collection of Aerial Photography (CUCAP) coversearch



**Figure 4** Extent of the 1992-1993 HE Thames Valley NMP data



**Figure 5** Extent of the visualised LiDAR data

### 3. Interpretation and mapping summary

- 3.1. In this location, the HE Thames Valley NMP data are detailed and accurate, but were completed 30 years ago to a more limited standard as set out by Fenner and Dyer (1994) and required checking and updating to modern sources.
- 3.2. Thames Valley NMP data were closely consulted alongside the original aerial photos, and additional modern LiDAR data, aerial photos and satellite imagery and are presented as an integral part of this assessment with appropriate acknowledgement and separation from additional data which were added from post-1993 sources.
- 3.3. All photos, satellite images and LiDAR data visualisations were examined and mapped where needed to update the NMP with data gathered between 1993 and 2022 at a level compatible with a 1:2500 scale OS digital base map.
- 3.4. Aerial photographs were closely examined by eye on screen and as paper copies as appropriate which were photographed at high resolution. Vertical aerial photos were examined with the aid of a mirror stereoscope where appropriate, or in detail on screen when consulted as digital files.
- 3.5. Layers from the final drawing have been used to prepare the illustration for this report and are provided digitally for import to a GIS, in Esri<sup>9</sup> Shapefile<sup>10</sup> format.
- 3.6. LiDAR data were downloaded, visualised and imported to QGIS and ArcGIS for interpretation and comparison to the TVNMP, all airborne and satellite remote sensing data sources and the Oxfordshire HER.
- 3.7. Methods of acquisition, standards and guidance, processing, transcription and interpretation are detailed in the **Appendix** to this report, alongside a discussion of the limitation of each survey technique for archaeological discovery and mapping.

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<sup>9</sup> Esri is an American multinational GIS software company, best known for its ArcGIS products.

<sup>10</sup> The shapefile format is a geospatial vector data format for geographic information system software. It is developed and regulated by Esri as a mostly open specification for data interoperability among Esri and other GIS software products.

## 4. Environment and known heritage assets

- 4.1. The nature of the environment has a complex effect on both the preservation and visibility of both buried and upstanding features from the air. Many factors combine to influence very marked seasonal and temporal limitations to visibility of cropmarks<sup>11</sup> soil marks<sup>12</sup>, earthworks<sup>13</sup> and relict or past buildings and foundations. Land use, agricultural regimes, weather, geology and soil types are all major contributing factors to the visibility of heritage assets from airborne and satellite-derived sources when assessing buried features which show as marks in crops, grass and soil.

### Topography and Land Use

- 4.2. The site areas lie on level and undulating rural land which is predominately laid to arable agriculture. The land drains into the nearby Rivers Glyme and Thames (also known as the River Isis), near Farmoor Reservoir.

### *Topography and Land Use Conclusion*

- 4.3. The Site presents some optimal environments for pre-modern settlement, agriculture and funerary land use which is evident as buried remains which cause marks in crops and soil in the arable areas.

### Geology

- 4.4. The geological substrates, which are shown on **Figure 6** (Cranfield University 2022, British Geological Survey (BGS) 2023) comprise well drained Permian, Jurassic and Eocene limestone interspersed with clays in the north and middle sections of the site areas. River terrace gravel and drift underlie areas close to the valley of the River

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<sup>11</sup> Where crops grow differentially over buried features such as ditches, banks and walls and reveal the pattern of past sites and landscape in the colour and density of their growth.

<sup>12</sup> Differently coloured and toned soil which is part of buried features which are being directly brought to the surface by ploughing or erosion and are visible in contrast to the surrounding soil.

<sup>13</sup> Upstanding ditched and embanked features which show from the air *via* their shadows or *via* the differential topography revealed by visualised LiDAR data.



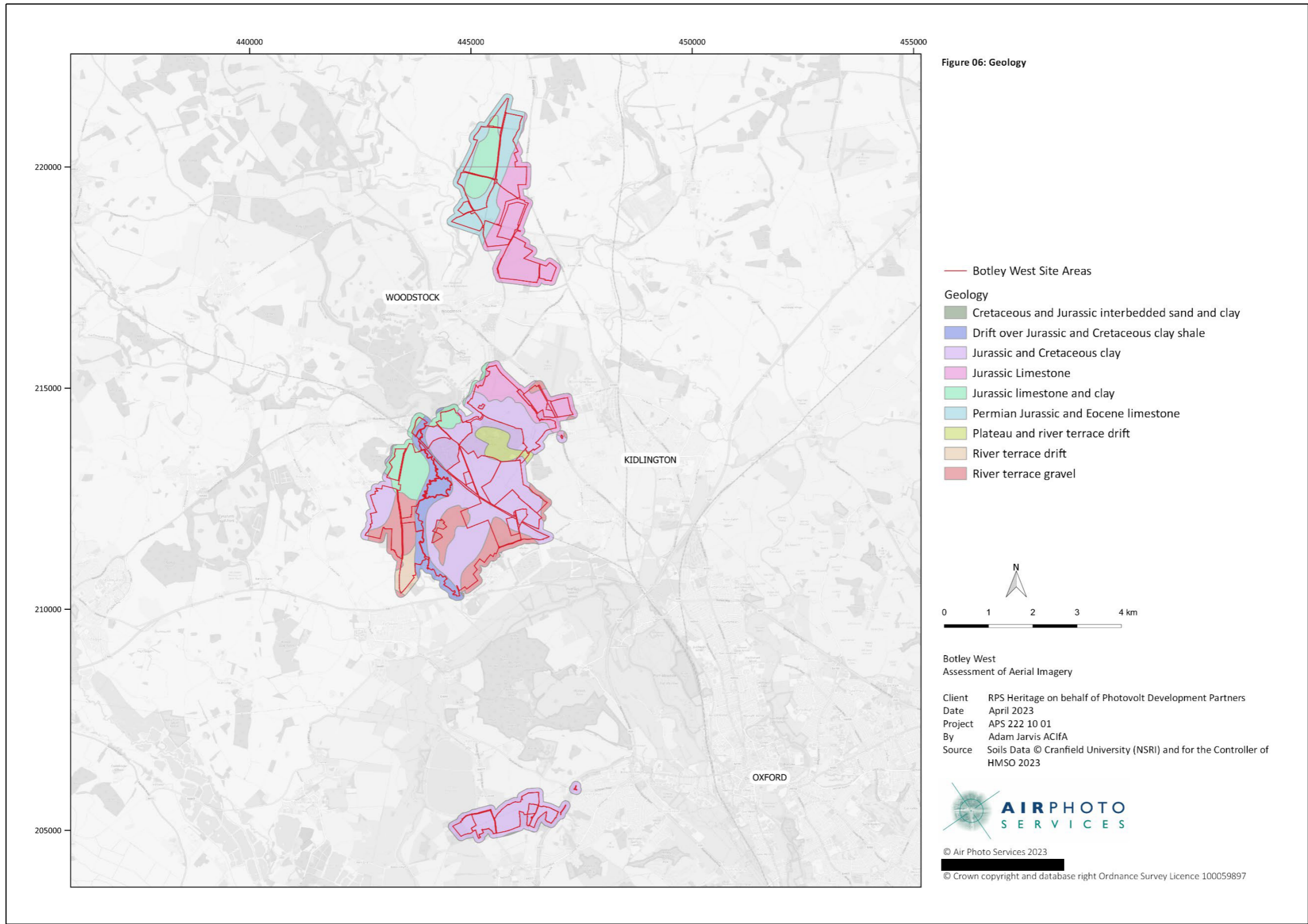
Thames. The southernmost site areas overlie less well drained Jurassic and Cretaceous clay substrates.

### Soils

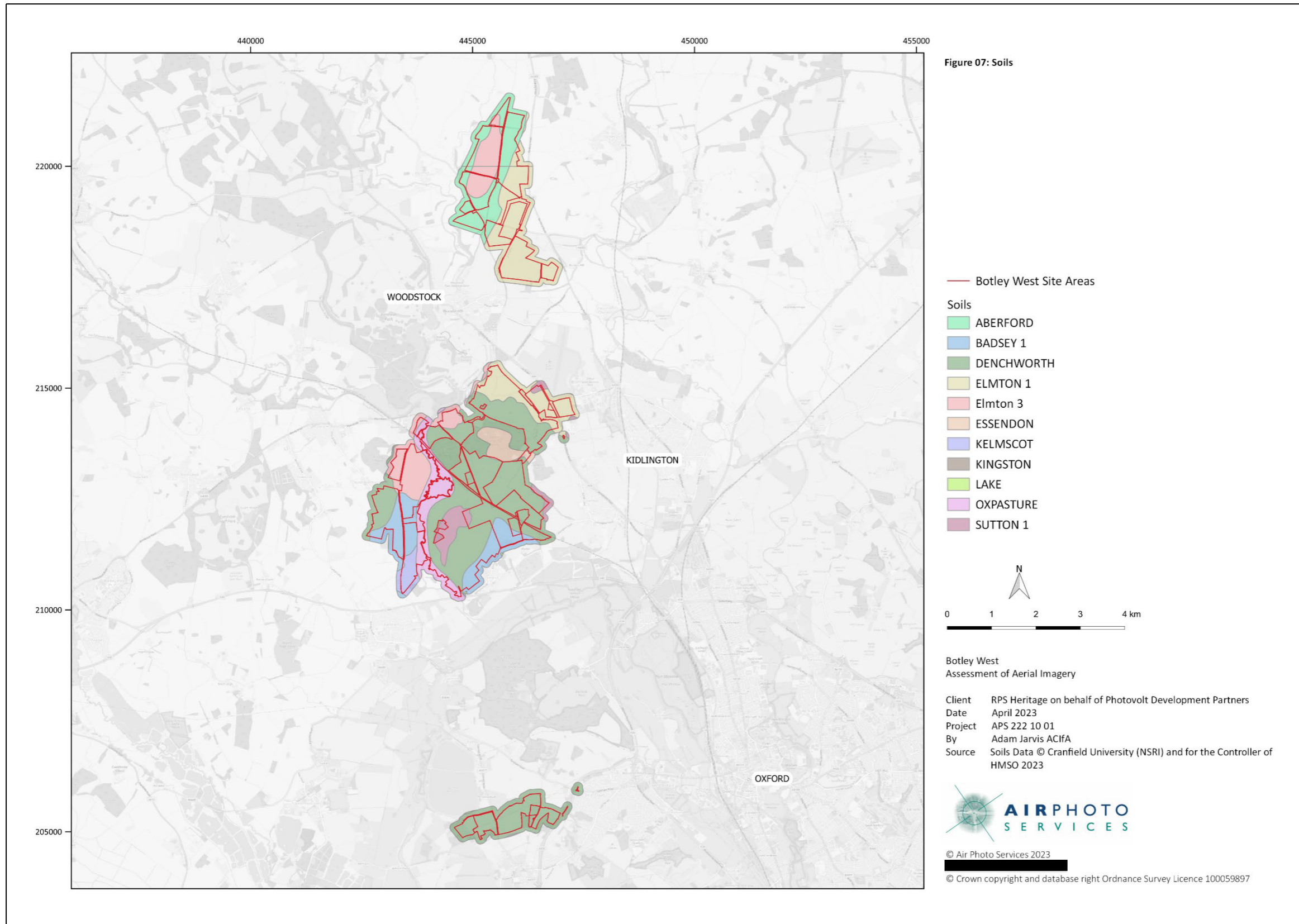
- 4.5. Fertile and easily worked 'brown earth' soils of the Aberford and Elmton soil associations overlie areas of limestone substrate.
- 4.6. Deeper loamy and clayey soils of the ESSENDON and OXPASTURE soil associations overlie more clayey substrates. Better drained fine loamy soils of the BADSEY 1, KELMSCOTT and SUTTON 1 associations overlie well drained areas of river terrace drift and gravel.
- 4.7. The Jurassic and Cretaceous clay deposits give rise to deep clayey soils of the DENCHWORTH and loamier soils of the OXPASTURE associations, which are much less well drained and harder to work than the lighter more friable soils over limestone and river terrace gravels and drift.
- 4.8. The soils within the site areas are shown on **Figure 7**.

### *Geology and soils conclusion*

- 4.9. In this area of Oxfordshire, the geology and soils within parts of the site areas are well drained high agricultural quality and are suitable for arable farming. Crops respond very readily to differences in the depth and consistency of the top and sub soils, over areas where buried ditched, surfaced and embanked features are present.
- 4.10. Other heavier soils were also worked in the past. The site areas show considerable evidence for medieval and Post-Medieval agriculture in the form of past headlands to ridge and furrow over medieval strip fields.
- 4.11. Less well drained clay areas may be less responsive to formation of cropmarks over buried features unless in times of higher soil moisture deficits.
- 4.12. The geology and soils in this area present a fertile and well worked environment where crop and soil marks may be expected over the more well drained deposits and possibly the moisture retentive clays where buried features are present. The area has been ploughed over many centuries and most of the pre-modern archaeological features have been eroded, buried or are visible only as microtopographic details *via* visualised LiDAR data on both the well-drained and more water retentive substrates.



**Figure 6 Geology**



**Figure 7 Soils**

## Previously recorded heritage assets

### *Statutorily protected sites*

- 4.13. The site areas contain no statutorily protected Scheduled Monuments, Parks and Gardens or battlefields within the redline boundaries.
- 4.14. A Scheduled buried Roman villa and small settlement was discovered during excavation works for a pipeline project immediately adjacent to and between the site areas at NGR SP 452 189 between Sansom's Plantation and Sansom's Farm. This site is recorded in the National Heritage List for England (NHLE) as List Entry Number 1006346<sup>14</sup>.
- 4.15. Similarly, a rectangular earthwork is Scheduled as NHLE List Entry Number 1006357<sup>15</sup> to the immediate southwest of part of the site areas at Hensington, NGR SP 453 180.
- 4.16. Blenheim Roman Villa and its associated field system, NHLE List Entry Number 1021367<sup>16</sup>, lie between 1250m and 520m away from and between the site area boundaries at NGR SP 456 161, 200m northeast of Little Cote.
- 4.17. Bladon Camp, a hillfort on Bladon Heath, is scheduled as NHLE List Entry Number 1013234<sup>17</sup> and lies between the site areas at NGR SP 456 138, between 780 and 320m from the site boundaries.

### *Sites included in the Oxfordshire Historic Environment Record (OHER)*

- 4.18. The OHER demonstrates that the site areas and their wider environs contain known evidence for features and landscapes which date from the earlier prehistoric, Roman, Early Medieval through to the modern periods.
- 4.19. Arable areas show crop marked remains of multi period ditched enclosures, settlements, funerary features, agricultural features, boundaries and accessways.

### *Baseline heritage assets conclusion*

- 4.20. The Scheduled sites in the immediate area demonstrate a strong Iron Age to Roman settlement and defended settlement presence in this area.

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16  
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Overall, the OHER and the TVNMP demonstrate the range of previously recorded archaeological resource in the area and have served as an important indication of the type of sites which are visible and typical in this area *via* airborne remote sensing and satellite imagery data sources.

## 5. Results

- 5.1 This assessment has recorded a range of archaeological sites and landscapes within the site areas and the immediate environs which date from the prehistoric to Post-Medieval periods. These features are predominantly recorded as marks in growing crops over buried ditches, other cut features, funerary sites, foundations and hard surfaces. Visualised LiDAR indicates some areas of microtopographic preservation, but the underlying earlier strata of archaeological deposits are mainly heavily plough eroded.
- 5.2 Medieval and Post-Medieval field systems and post-enclosure field boundaries are largely ploughed out within the site areas by modern mechanised farming. These features are visible as some marks in crops and as wide areas of eroded microtopographic earthworks which are visible on examination of visualised LiDAR data. The areas of ridge and furrow are shown, and also contained embanked headlands to the strip fields which are also eroded.
- 5.3 The assessment identified 54 individual sites or landscape areas which are summarised in **Table 1**. The majority of the recorded sites lie within the site area boundaries. Sites **APS\_7, 11, 16, 44, and 52** which lie just outside and adjacent to the boundaries are included in this assessment for contextual integrity. Associated features may extend into the site areas from these foci of buried archaeological features. Their records in **Table 1** are highlighted in light grey fill to differentiate them from the remaining **49** records which lie within the site area boundaries.
- 5.4 These features are illustrated in a heritage mapbook, which is indexed on **Figure 8** and presented as **Figure 9**. **Figure 10** shows the detail of selected more complex sites and is again presented separately. **Figure 11** and **Figure 12** show examples of the LiDAR data Hillshade and Simple Local Relief Model (SLRM) visualisations which were used for interpretative purposes and are discussed in the **Appendix** to this report.

5.5 These figures are presented separately to this report due to the large size of these data, which may cause issues with some IT systems when opening large reports saved as PDF files:

**Figure 8** *Index to the heritage Mapbook, provided separately to the report;*

**Figure 9** *Overview heritage Mapbook, provided separately to the report;*

**Figure 10** *Mapbook showing detail of selected sites, provided separately to the report;*

**Figure 11** *Mapbook showing the Hillshade visualisations of LiDAR data, provided separately to the report;*

**Figure 12** *Mapbook showing Simple Local Relief Model of LiDAR data, provided separately to the report.*

**Table 2** Gazetteer of sites and landscapes identified during this assessment

| Site Reference | Within the site area boundaries | Figure 9 mapbook page | Figure 10 detail mapbook page | Asset Type                   | Associated features   | Latest observed condition     | Period                   | MOX MonUID                    | Comment  | Easting | Northing | NGR        |
|----------------|---------------------------------|-----------------------|-------------------------------|------------------------------|---|-------------------------------|--------------------------|-------------------------------|--|---------|----------|------------|
| APS_01         | Y and outside of the area also  | 1                     | NA                            | Ridge and Furrow             | Field Boundary, Drainage                                      | Microtopographic Earthwork    | Medieval / Post-Medieval |                               | Area of Medieval / Post-Medieval ridge and furrow and associated field boundaries which was visible as earthworks on RAF vertical aerial photos in the 1940s and has since been ploughed and eroded.   | 446010  | 205471   | SP 460 054 |
| APS_02         | Y                               | 2                     | NA                            | Ridge and Furrow             |   | Removed                       | Medieval / Post-Medieval |                               | Area of Medieval / Post-Medieval ridge and furrow which has been ploughed out and is no longer extant.   | 444455  | 210811   | SP 444 108 |
| APS_03         | Y                               | 2, 3                  |                               | Headland                     |   | Microtopographic Earthwork    | Medieval / Post-Medieval |                               | A very residual bank which is possibly the remains of a headland to former areas of medieval ridge and furrow cultivation.   | 444867  | 211049   | SP 448 110 |
| APS_04         | Y                               | 2                     | 1                             | Settlement Site              | Ring Ditch, Pit, Rectilinear Enclosure, Field Boundary, Ditch | Cropmark, Residual Topography | Unknown                  | MOX2966<br>MOX2965<br>MOX2947 | Area of cropmarked sub-surface pits and enclosures which may be part of a settlement site. Former field boundaries are present as microtopographic earthworks. Previously mapped by NMP and has been remapped according to newer rectifications.       | 444434  | 211146   | SP 444 111 |
| APS_05         | Y                               | 2                     |                               | Ridge and Furrow             | Former quarries   | Eroded                        | Medieval / Post-Medieval |                               | Area of Medieval / Post-Medieval ridge and furrow which is now eroded. Maculae (area crop marks which show buried cut features) over the sites of likely former quarries which were recorded by NMP have not been remapped.                            | 444780  | 211190   | SP 447 111 |
| APS_06         | Y partially                     | 3                     | 2                             | Ring Ditches, funerary sites | Ditch, Extractive Pit, Curvilinear Ditch                      | Cropmark                      | Bronze Age / Iron Age    | MOX24807                      | Area of cropmarked sub-surface Bronze Age and Iron Age ring ditches, possible funerary sites, along with possible Roman ditches. The northern extent appears to have been partly removed by extraction. Mapped by NMP and has been partially remapped. | 445494  | 211229   | SP 454 112 |
| APS_07         | N                               | 3                     | 3                             | Settlement Site              |   | Cropmark                      | Early Medieval           | MOX11179                      | Anglo Saxon Settlement site. Only partially visible on satellite imagery in 2018 and 2020. Recorded by OHER and lies just outside and to the immediate south of the site area boundary. Not remapped due to sufficient accuracy in NMP data.           | 446000  | 211261   | SP 460 112 |



| Site Reference | Within the site area boundaries | Figure 9 mapbook page | Figure 10 detail mapbook page | Asset Type       | Associated features | Latest observed condition                | Period                   | MOX MonUID                         | Comment   | Easting | Northing | NGR        |
|----------------|---------------------------------|-----------------------|-------------------------------|------------------|---------------------|--|--------------------------|------------------------------------|---|---------|----------|------------|
| APS_08         | Y                               | 2                     | 4                             | Ring Ditch       |                     | Cropmark                                 | Bronze Age / Iron Age    | MOX2953, MOX2953, MOX2963, MOX2964 | Cropmarked sub-surface ring ditches which could be funerary sites, are visible on specialist oblique aerial photographs. Previously mapped by NMP and have been remapped according to newer rectifications.                                 | 443598  | 211320   | SP 435 113 |
| APS_09         | Y                               | 2                     |                               | Ridge and Furrow |                     | Microtopographic Earthwork               | Medieval / Post-Medieval |                                    | Area of extant Medieval / Post-Medieval ridge and furrow.   | 444102  | 211410   | SP 441 114 |
| APS_10         | Y                               | 2                     |                               | Field Boundary   |                     | Ploughed out, microtopographic earthwork | Medieval / Post-Medieval |                                    | Former field boundary visible while extant on aerial photography and now visible as microtopographic earthworks on Environment Agency LiDAR Data visualisations.  | 443713  | 211530   | SP 437 115 |
| APS_11         | N                               |                       | 5                             | Extractive Pit   | Ring Ditch          | Reinstated                               | Modern                   |                                    | Area of extraction which in 2009 has removed cropmarked evidence of Iron Age / Bronze Age Ring Ditches in a funerary landscape.   | 443081  | 211586   | SP 430 115 |
| APS_12         | Y partially                     | 2                     | 5                             | Ring Ditch       |                     | Partially Removed                        | Iron Age                 | MOX2932 MOX2935                    | Ring Ditches and pits related to Iron Age settlement and farmstead are visible on aerial photographs. Main part destroyed in 2009 by quarrying. Easternmost buried ring ditch not removed. Partly remapped in line with new rectifications. | 443165  | 211603   | SP 431 116 |
| APS_13         | Y                               | 2                     |                               | Field Boundary   |                     | Cropmark                                 | Medieval / Post-Medieval |                                    | Cropmarked sub-surface remains of a former field boundary visible on aerial photographs.  | 443948  | 211627   | SP 439 116 |
| APS_14         | y                               | 2, 3                  |                               | Ridge and Furrow |                     | Microtopographic Earthwork               | Medieval / Post-Medieval |                                    | Area of ridge and furrow, now eroded and visible as microtopography.  | 445114  | 211721   | SP 451 117 |
| APS_15         | Y partially                     | 2                     |                               | Extractive Pit   |                     | Reinstated                               | Modern                   |                                    | Area of extractive pits which may have impacted underlying evidence for a Neolithic - Bronze Age occupation site recorded by the OHER as MOX10787.  | 444333  | 211757   | SP 443 117 |
| APS_16         | N                               |                       | 6                             | Ditch            | Ring Ditch          | Cropmark                                 | Unknown                  | MOX3007                            | Area of ditches and ring ditches, outside of site boundary. Not Remapped from NMP data.   | 442649  | 211876   | SP 426 118 |
| APS_17         | Y partially                     | 3                     |                               | Ridge and Furrow |                     | Microtopographic Earthwork               | Medieval / Post-Medieval |                                    | Area of ridge and furrow ploughing, now eroded and visible as microtopography.  | 446399  | 212032   | SP 463 120 |
| APS_18         | y                               | 2                     |                               | Ridge and Furrow |                     | Microtopographic Earthwork               | Medieval / Post-Medieval |                                    | Area of ridge and furrow which is now ploughed out. Headlands are visible as microtopography <i>via</i> visualised LiDAR data.  | 443049  | 212160   | SP 430 121 |

| Site Reference | Within the site area boundaries | Figure 9 mapbook page | Figure 10 detail mapbook page | Asset Type       | Associated features | Latest observed condition             | Period                   | MOX MonUID | Comment   | Easting | Northing | NGR        |
|----------------|---------------------------------|-----------------------|-------------------------------|------------------|---------------------|---------------------------------------|--------------------------|------------|---|---------|----------|------------|
| APS_19         | Y                               | 2                     |                               | Extractive Pit   |                     | Reinstated                            | Modern                   | MOX10791   | Gravel Extraction site which destroyed previously recorded Anglo Saxon Settlement MOX10791.   | 444666  | 212215   | SP 446 122 |
| APS_20         | Y                               | 2, 3                  |                               | Ridge and Furrow |                     | Microtopographic Earthwork            | Medieval / Post-Medieval |            | Area of ridge and furrow which is now ploughed out. Headlands are visible as microtopography <i>via</i> visualised LiDAR data.  | 445196  | 212223   | SP 451 122 |
| APS_21         | Y partially                     | 2                     | 7                             | Ring Ditch       |                     | Cropmark                              | Unknown                  | MOX2951    | Cropmarked sub-surface evidence over a buried ring ditch of unknown date visible on aerial photography and satellite imagery, which may be a former funerary site. Previously recorded my NMP and remapped in line with new rectifications. | 442829  | 212312   | SP 428 123 |
| APS_22         | Y                               | 2                     |                               | Ridge and Furrow |                     | Microtopographic Earthwork            | Medieval / Post-Medieval |            | Area of ridge and furrow which is now ploughed out. Headlands are visible as microtopography <i>via</i> visualised LiDAR data.  | 444322  | 212351   | SP 443 123 |
| APS_23         | Y partially                     | 2                     | 7                             | Extractive Pit   |                     | Cropmark, Microtopographic earthworks | Unknown                  |            | Maculae, most likely extraction pits visible as cropmarks on aerial photos and later as Microtopography <i>via</i> visualised LiDAR data. Previously recorded my NMP and remapped in line with new rectifications.                          | 442781  | 212352   | SP 427 123 |
| APS_24         | Y                               | 2                     | 8                             | Headland         |                     | Microtopographic Earthwork            | Medieval / Post-Medieval |            | Residual bank which was likely a headland to eroded ridge and furrow ploughing.   | 443598  | 212419   | SP 435 124 |
| APS_25         | Y                               |                       | 8                             | Foundations      |                     | Cropmark                              | Unknown                  |            | Cropmarked evidence for a rectangular structure. Not visible on earlier aerial photographs, but visible on modern satellite imagery. Could possibly be a former Roman or Post Medieval building.  | 443383  | 212608   | SP 433 126 |
| APS_26         | Y                               | 3                     |                               | Field Boundary   |                     | Removed                               | Medieval / Post-Medieval |            | Field boundary which is no longer extant.   | 446194  | 212653   | SP 461 126 |
| APS_27         | Y                               |                       | 8                             | Pit              | Extractive Pit      | Cropmark                              | Modern                   |            | Cropmarked area of former extraction.   | 443432  | 212664   | SP 434 126 |
| APS_28         | Y                               |                       | 8                             | Ring Ditch       |                     | Cropmark                              | Unknown                  |            | Possible buried former funerary or settlement site, 2 ring ditches visible as cropmarks.  | 443472  | 212730   | SP 434 127 |
| APS_29         | Y                               | 2, 4                  |                               | Ridge and Furrow |                     | Microtopographic Earthwork            | Medieval / Post-Medieval |            | Area of ridge and furrow which is now ploughed out and visible only as residual microtopography.  | 443008  | 212769   | SP 430 127 |
| APS_30         | y                               | 2, 4                  |                               | Ridge and Furrow |                     | No Longer Extant                      | Medieval / Post-Medieval |            | Area of former ridge and furrow which is no longer extant.  | 443703  | 212871   | SP 437 128 |

| Site Reference | Within the site area boundaries | Figure 9 mapbook page | Figure 10 detail mapbook page | Asset Type       | Associated features    | Latest observed condition  | Period                   | MOX MonUID | Comment  | Easting | Northing | NGR        |
|----------------|---------------------------------|-----------------------|-------------------------------|------------------|------------------------|----------------------------|--------------------------|------------|--|---------|----------|------------|
| APS_31         | y                               | 2, 3, 4, 5            |                               | Ridge and Furrow |                        | Microtopographic Earthwork | Medieval / Post-Medieval |            | Area of ridge and furrow which is now ploughed out and visible only as residual microtopography.   | 445543  | 212906   | SP 455 129 |
| APS_32         | Y                               | 4                     | 32                            | Enclosure        | Extraction Pits, Ditch | Cropmark                   | Unknown                  | MOX2950    | Circular ditched enclosures with trapezoidal enclosure inside (c.150m E of Pinsley Wood) with nearby area cropmarks (maculae) indicative of sub-surface archaeological settlement and or funerary features of as yet unknown date. Not Remapped. | 443329  | 213298   | SP 433 132 |
| APS_33         | Y                               | 5                     |                               | Ridge and Furrow |                        | Microtopographic Earthwork | Medieval / Post-Medieval |            | Within the redline site boundary visualised LiDAR data indicates former boundaries and very residual ridge and furrow. Areas of preserved ridge and furrow lie outside of the redline site boundary in this area.                                | 446371  | 213951   | SP 463 139 |
| APS_34         | Y                               | 4                     |                               | Ridge and Furrow |                        | Microtopographic Earthwork | Medieval / Post-Medieval |            | Former ridge and furrow which is now ploughed out and visible as residual microtopography.   | 444157  | 213959   | SP 441 139 |
| APS_35         | Y partially                     | 4                     |                               | Ridge and Furrow |                        | Microtopographic Earthwork | Medieval / Post-Medieval |            | Former ridge and furrow which is now ploughed out and visible as residual microtopography.   | 444848  | 214146   | SP 448 141 |
| APS_36         | y                               | 4                     |                               | Field Boundary   |                        | Microtopographic Earthwork | Medieval / Post-Medieval |            | Former field boundary visible as residual microtopography.   | 444491  | 214368   | SP 444 143 |
| APS_37         | y                               | 5                     |                               | Ridge and Furrow |                        | Microtopographic Earthwork | Medieval / Post-Medieval |            | Former ridge and furrow which is now ploughed out and is visible as residual microtopography.  | 446040  | 214606   | SP 460 146 |
| APS_38         | y                               | 5                     |                               | Ridge and Furrow |                        | Microtopographic Earthwork | Medieval / Post-Medieval |            | Former ridge and furrow which is now ploughed out and is visible as residual microtopography.  | 445466  | 214613   | SP 454 146 |
| APS_39         | y                               | 5                     |                               | Field System     |                        | Microtopographic Earthwork | Unknown                  |            | Area of microtopographic banks, possible former field boundaries.  | 446485  | 214764   | SP 464 147 |
| APS_40         | y                               | 5                     | 10                            | Pit              |                        | Cropmark                   | Unknown                  |            | Area of former pits visible as a cropmark which maybe small areas of former mineral extraction.  | 445397  | 215123   | SP 453 151 |
| APS_41         | y                               | 5                     | 10                            | Ring Ditch       |                        | Cropmark                   | Unknown                  |            | Cropmark over a buried eroded ring ditch visible on satellite imagery, of unknown type and date.   | 445425  | 215251   | SP 454 152 |
| APS_42         | y                               | 5                     | 10                            | Extractive Pit   |                        | Cropmark                   | Post-Medieval            |            | Area of former mineral extraction visible as a cropmark.   | 445515  | 215451   | SP 455 154 |

| Site Reference | Within the site area boundaries | Figure 9 mapbook page | Figure 10 detail mapbook page | Asset Type     | Associated features | Latest observed condition                  | Period                   | MOX MonUID               | Comment  | Easting | Northing | NGR        |
|----------------|---------------------------------|-----------------------|-------------------------------|----------------|---------------------|--|--------------------------|--------------------------|--|---------|----------|------------|
| APS_43         | Y                               |                       |                               | Field Boundary |                     | Cropmark, Microtopographic Earthwork       | Medieval / Post-Medieval |                          | Former field boundary visible when extant on aerial photographs and presently as a microtopographic earthwork.   | 446262  | 217619   | SP 462 176 |
| APS_44         | N                               | 6                     | 11                            | Enclosure      | Trackway            | Cropmark, recorded in NHLE as an earthwork | Unknown                  | MOX35<br>NHLE<br>1006357 | Rectilinear buried enclosure with possible associated trackway visible as a cropmark on aerial photographs. This site is a cropmarked scheduled Roman farmstead at Hensington and lies outside the site areas to the immediate west. The site is recorded in NHLE as an earthwork, but visualised LiDAR data indicates no visible topographic elements. The cropmarked enclosure lies partially outside the legal boundary of the Scheduled area. A later prehistoric and further elements of a Roman trackway were identified during evaluation to the immediate east of the site, during the Blenheim Net Zero project evaluation (Oxford Archaeology and OHER evaluation record EOX6785). | 445449  | 217970   | SP 454 179 |
| APS_45         | Y                               | 6                     |                               | Field Boundary |                     | Cropmark, Microtopographic Earthwork       | Unknown                  |                          | Former field boundaries, could be related to the Weavely Deserted Medieval Village MOX3794.  | 445425  | 218545   | SP 454 185 |
| APS_46         | Y                               | 6                     | 12                            | Foundations    | Roman Town          | Cropmark, Microtopographic Earthwork       | Roman                    | MOX27957<br>MOX3841      | Possible Roman building approximately 100m southwest of site of Roman town. To the west of a scheduled area of Roman town remains North of Sansom's Platt (NHLE 1006346). The core Scheduled area lies outside the site area boundaries.   | 445114  | 218796   | SP 451 187 |
| APS_47         | y                               | 6                     | 12                            | Ditch          |                     | Cropmark                                   | Unknown                  |                          | Area of cropmarked buried ditches which may be a field system related to the adjacent Roman town, APS_48, MOX83, NHLE 1006346. Ditches continue into the Scheduled area to the east.   | 445091  | 218950   | SP 450 189 |

| Site Reference | Within the site area boundaries | Figure 9 mapbook page | Figure 10 detail mapbook page | Asset Type                  | Associated features | Latest observed condition            | Period        | MOX MonUID | Comment   | Easting | Northing | NGR        |
|----------------|---------------------------------|-----------------------|-------------------------------|-----------------------------|---------------------|--------------------------------------|---------------|------------|---|---------|----------|------------|
| APS_48         | Y                               | 6                     | 12                            | Roman Town                  |                     | Cropmark, Microtopographic Earthwork | Roman         | MOX83      | Cropmark remains of a Roman settlement / town including buried structures. Microtopographic earthworks are visible which may be related to the layout of the town. Ditches continue into the Scheduled area of roman town remains north of Sansom's Platt NHLE 1006346. | 445253  | 218963   | SP 452 189 |
| APS_49         | Y partially                     |                       |                               | Modern Service              |                     | Cropmark, Microtopographic Earthwork | Modern        |            | Modern service laid in 2017.  | 446054  | 219001   | SP 460 190 |
| APS_50         | y                               | 7                     | 13                            | Curvilinear Enclosure       |                     | Cropmark                             | Unknown       | MOX23146   | Cropmark over a U-shaped sub-surface ditch, which may be a partial curvilinear enclosure to the east of Milford Bridge. Date and type as yet unknown.   | 445351  | 219657   | SP 453 196 |
| APS_51         | y                               | 7                     |                               | Field Boundary              |                     | Cropmark, Microtopographic Earthwork | Post Medieval |            | Field boundary which is no longer extant.   | 445916  | 219991   | SP 459 199 |
| APS_52         | N                               | 7                     | 14                            | Foundations                 |                     | Cropmark                             | Unknown       | MOX23141   | Possible structural foundations visible as a cropmark over subsurface remains, outside of and 50 – 60m to the west of the site area boundary. These buried foundations are likely to be part of the recorded possible villa at Lower Dornford Farm.                     | 445024  | 220590   | SP 450 205 |
| APS_53         | Y                               | 7                     | 15                            | Banjo Enclosure             |                     | Cropmark                             | Iron Age      | MOX3554    | Cropmarked sub-surface remains of a probable partially visible Banjo Enclosure, indicative of likely Iron Age stock management and or settlement remains.   | 445913  | 220762   | SP 459 207 |
| APS_54         | Y                               | 7                     | 15                            | Site of former bell foundry |                     | Microtopographic earthwork           | Post-Medieval | MOX3451    | Hollows and raised areas indicated <i>via</i> visualised LiDAR data which may be the remains of a former bell foundry recorded as extant between 1606 and 1646 by the OHER.   | 445025  | 219987   | SP 450 199 |

Features within the site area boundaries

Features just outside and adjacent to the site area boundaries

## Discussion

### *Prehistoric and Roman features*

- 5.6 The site areas lie within a diverse archaeological landscape which contains evidence for past settlement, access and funerary features. These sites and landscapes indicate continuing settlement and land use within the site area boundaries and the wider environs from the Bronze Age and Iron Age periods which continued into the Roman period and beyond.
- 5.7 Many potential prehistoric sites may not yet carry well-defined dating evidence from intrusive or documentary investigation sources, so are categorised as ‘undated sites’.
- 5.8 Notable dated and likely prehistoric sites include;
- APS\_06** [OHER MOX24807] is a group of buried circular ‘ring ditches’ on the edge of a site area to the west of Yarnton Road. These funerary features were recorded as cropmarks during specialist aerial archaeological survey. They are defined by the OHER and the TVNMP as burial sites which date to the early and middle Bronze Age. They are eroded and in parts have been removed by later mineral extraction pits. The ring ditches are overlain by crop marked ditches which date to the iron Age – Roman periods.
- APS\_08** [OHER MOX2953, 2963 and 2964] is a similar likely area of possible Bronze Age funerary sites which contains buried ring ditches visible on specialist oblique aerial photos to the west of Eynsham Mill. The sites are mapped in parts by the TVNMP and a noted as ‘undated’ by the OHER.
- 5.9 Further likely prehistoric but as yet ‘undated’ sites are recorded at:
- APS\_04** [OHERMOX 2947, 2965 and 2966] where crop marks show areas of buried enclosures pits and ring ditches which indicate a likely area of Iron Age – Roman rural settlement which is overlain by post enclosure boundaries which date to the modern period and have been removed.
- APS\_21** [OHER MOX2951], a buried crop marked ring ditch which may be a residual Bronze Age funerary site.

- 5.10 Further possible funerary sites are recorded as ring ditches at **APS\_28** and **APS\_41**.
- 5.11 Ditches, pits, extractive pits and field systems are also recorded within the areas which indicate past settlement on a widespread basis as seen in this in this region and within the site areas in specific locations.
- 5.12 The crop marked remains of a likely ‘banjo’ type stock management enclosure are partially visible at **APS\_53** [OHER MOX3554]. These sites likely date to the Iron Age and indicate a pastoral land use and economy in this period.
- 5.13 Buried foundations which likely indicate Roman settlement or villa-like features are visible as crop marked sites within and adjacent to the study areas at:
- 5.14 **APS\_46** [OHER MOX3841 and 27957] where a buried foundation and enclosure indicates a former building and likely settlement 100m to the west of a known Scheduled buried Roman ‘town’ and Scheduled villa area to the north of Sansom’s Platt [OHER MOX83, NHLE 1006346]. **APS\_46** lies to east of a recorded Anglo Saxon village near Wootton, [OHER MOX1701], 60m to the west and outside of the site areas.
- 5.15 Buried foundation structures are also noted as crop marks at **APS\_25** and **APS\_52**. A rectilinear ditched buried enclosure and trackway of unknown date and origin is recorded at **APS\_44** and a buried curvilinear enclosure at **APS-50** [OHER MOX23146].

#### *Early Medieval features*

- 5.16 Early Medieval<sup>18</sup> settlement and funerary features are recorded adjacent to the site areas at Wootton [OHER MOX1701]. The TVNMP records an extensive area of crop marked ditches, ring ditches, a Romano-British (Iron Age-Roman) field system complex and the site of an ‘Anglo Saxon Hall, grubenhaus<sup>19</sup> and settlement immediately to the south of and adjacent to the site areas near Worton Rectory Farm. These features are included in this assessment as site **APS\_07** as they may extend into but not be visible as crop marks within the site areas at this location. A small extraction pit (**APS\_19**) destroyed evidence for an Anglo Saxon settlement at Purwell Farm, just outside of and adjacent to the site areas, where neolithic and Bronze Age occupation was also noted.

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<sup>18</sup> Sometimes and previously recorded as ‘Anglo-Saxon’ period

<sup>19</sup> A type of sunken floored rectangular shaped building

PS 222 10 01 Botley West Solar Farm

Assessment of Airborne Remote Sensing Data and Satellite Imagery for Archaeology

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### *Medieval and Post Medieval landscape*

- 5.17 Whilst there is evidence for some very minor areas of microtopography over earlier sites, visualised LiDAR data indicate that the majority of the slight earthworks in the site area and wider environs are the remains of extensive and complex overlying Medieval to Modern field systems which include headlands and later post-enclosure land boundaries. **Figures 11** and **12** are mapbooks which show the hillshade and SLRM visualised LiDAR data which records the complexity of the microtopographic remains of the residual Medieval and Post-Medieval landscape in this area which is recorded for this assessment as schematic indications of the former areas of ridge and furrow within the Medieval open fields.
- 5.18 Aerial photographs, satellite imagery and visualised LiDAR data indicate that the site areas do not contain any visible evidence for medieval settlement within the site boundaries.
- 5.19 The possible site of a Post-Medieval bell foundry is recorded by the OHER near Dornford as MOX3451, which was operational between 1606 and 1646. Visualised LiDAR data indicate a series of hollows and raised areas this location which may be associated with this former foundry and are recorded for this assessment as **APS\_54**.



## 6. Aerial photograph and LiDAR data survey conclusion

- 6.1 Aerial photographs and LiDAR survey data gathered between the 1940s and the present time show a former landscape of buried eroded settlement, access and agricultural features which are mainly visible as crop marks generally but not always on the lighter soils over limestone or gravel substrates.
- 6.2 Features dating to the prehistoric, Roman, Medieval, and Post-Medieval periods have been identified and mapped. Some of these features have been previously identified and mapped in detail by the TVNMP in the south part of the site areas. This assessment has augmented and added to these NMP data from post 1993 aerial and satellite images.
- 6.3 It is highly likely that the below-ground archaeological deposits which cause the marks in crops are more extensive, both horizontally and vertically, than shown *via* the aerial imagery. Absence of cropmark evidence does not necessarily indicate an absence of archaeological deposits in apparently blank areas.
- 6.4 The separation of dating into specific periods of prehistory and history can only be confirmed by ground-based or documentary analyses, but some dating evidence for sites within the Site has been proposed by the OHER from intrusive or documentary survey evidence and the TVNMP by observation of morphological characteristics of cropmarked sites.
- 6.5 From an aerial perspective, this landscape may be analysed in a 'living' manner as one which developed over time and contains many multi-period elements. These will be more deeply stratified and extensive below the ground than is apparent in the results of the survey. The remains visible as cropmarks are all likely to have been impacted by agricultural cultivation, to some degree, and retain minimal micro-topographic features visible on the ground surface.
- 6.6 The pre-modern landscape lies below the extensive Medieval and Post-Medieval agricultural landscape which is largely visible as microtopography *via* visualised LiDAR data.

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## 8. APPENDIX 1: Airborne remote sensing data sources, processing, interpretation, mapping methodology and limitations

### Data Type and Sources

- 8.1. This survey has utilised a range of sources and archives in order to identify, interpret and map heritage features from the air and from satellites. This section gives details about the methodology employed to search each archive, the type of data available for study and the interpretation methods applied to each data set.

#### *Online Aerial and Satellite-Derived Images*

- 8.2. Since 1999, digital mosaics of multiple timelines of georeferenced aerial photographs have been uploaded to geoportals such as Google Earth and at Bing.com. The dates attributed to these images are not 100% assured or authenticated, but for heritage survey purposes this has no legal implication in this instance. They are available in real time as open-source imagery online, with some copyright requirements. The imagery may change when new sources are uploaded.
- 8.3. All available online aerial and satellite derived images which constitute the open-source mosaics of aerial imagery displayed on Google Earth and Bing.com/Maps (aerial and birds-eye if available) were consulted for this survey. All timelines available on these geoportals were systematically consulted and accessed between 1<sup>st</sup> and 30<sup>th</sup> April 2023.
- 8.4. Following magnification, relevant images were captured at the highest resolution using the 'save-image' function in Google Earth Pro or a screen snipping tool. They were saved, labelled and filed for geo-referencing.
- 8.5. Summer timelines at Google Earth were very helpful in the recording of cropmarked buried sites.
- 8.6. Aerial images displayed at Bing Maps was used in the same manner but with the limitations that there was a restricted single view timeline and less flexible image capture mechanisms. The Microsoft 'snipping tool' was used to capture the relevant

images which generally were not as informative as the comprehensive timeline datasets at Google Earth.

*Aerial photographs held at the Historic England Archive*

- 8.7. Paper based copies of all vertical and oblique and specialist oblique aerial photos held at the HE Archive were examined in detail in the Historic England Public Search Room, by Adam Jarvis in March 2023. Relevant photographs were recorded using a high resolution digital camera and filed. Selected images georeferenced for the project archive.

*Aerial photographs held at The Cambridge University collection of Aerial photographs (CUCAP)*

- 8.8. The CUCAP collection was not consulted the NMP. The collection is closed for digitisation, but a coversearch was obtained online at [REDACTED] Some of these photos are available as copies in the HE Archive, and all were used as appropriate by the TVNMP prior to the archive's more recent closure.

*Thames valley NMP Data*

- 8.9. NMP data were supplied in GIS-ready Tif format.

*Environment Agency LiDAR Data*

- 8.10. The Environment Agency has collected LiDAR data from airborne survey platforms in recent years at varying resolutions, which are available for downloading, processing, visualising and interpreting *via* the EA website <https://environment.data.gov.uk/DefraDataDownload/?Mode=Survey>

## Assumptions and Limitations

### *Historic Aerial Photographs*

- 8.11. The assumption that aerial photographic survey and vertical and oblique aerial photographs show all features and will reveal a complete archaeological record in any given area is erroneous. This is due to many interactive survey, seasonal, environmental, meteorological and perception and interpretation issues which are set out below.
- 8.12. Interpretation of aerial photographs relies either on visual identification of the effect heritage assets have on crops and other vegetation, marks in soils, visible features or earthworks which are more visible at times of clear low light.
- 8.13. It is important to note that aerial photographs usually only show part of the horizontal and vertical extent of buried and upstanding features. Their capacity to reveal features as cropmarks, vegetation marks, soil marks or as the shadows cast by banks, ditches and walls, depends upon several environmental and agricultural factors prevalent at the time of the photographic survey. It is possible for many years' photography over one site to show nothing at all, and then during one instance of survey to reveal complex buried cropmark features. The direction of light at the time of photography, with reference to shadows cast and crop or soil marked features highlighted, can also affect the visibility of features on aerial photographs. Unlike digitally processed LiDAR and other data, the azimuth of the sun cannot be changed on a conventional aerial photograph.
- 8.14. Past and present land use also presents limitations to visibility of features. A cropped arable regime of cereals often allows the formation of cropmarks, whereas grassland, unless seen in times of extreme moisture stress, can mask the appearance of buried features. The time of year is thus important in gaining maximum benefit from aerial photographic sorties. In winter, the low leaf index and lower light angle assists visibility of topographic and earthwork features. In summer, ripening crops, often from April through to harvest in July/August, may show differential marks over buried features. Dry conditions will often cause parching in grass, which will then reveal areas of former foundations as the grass dies over the harder less moisture retentive buried features.

Following harvest, weathering and ploughing, marks in soil often show where buried archaeological deposits are being actively ploughed and brought to the surface.

- 8.15. In this area of Oxfordshire, the arable areas have been intensively eroded by ploughing. The areas of lighter shallow soils over well drained substrates are conducive to the formation of cropmarks over buried heritage assets. This also applies more marginally on heavier clay soil areas in times of greater soil moisture deficits.
- 8.16. In constructing a comprehensive interpretation of the archaeological landscape, it is essential to examine a range of photographs, taken under a variety of environmental conditions, as has been done in this case.
- 8.17. The aerial photographs taken in the 1940s often recorded extant landscapes which have been altered or carry evidence for pre-modern fields. These historic photos provide a starting point for the assessment of landscape change, in conjunction with the study of historic maps and modern aerial and satellite-derived imagery and LiDAR data.
- 8.18. The remit of past oblique aerial surveys, the survey areas chosen and the visibility of sites to the aerial archaeologist can often determine the content and coverage of oblique aerial photography. Observer led flights may be heavily biased and may miss features which were present but were not seen or recorded. This area has been surveyed carefully by aerial archaeologists and subject to detailed mapping by the TVNMP, but some additions and clarifications to former mapping and interpretations have been made as expected from post 1993 sources in the southern part of the site areas where TVNMP had been undertaken.
- 8.19. It is also important to note that the perception of the environment and expectation of what is to be found may often limit the air photo analyst's mental 'openness' to features. This perception factor is mitigated by repeated examination of imagery taken in different years and under different conditions, and by teamwork between two or more interpreters checking the data. 'Photo fatigue' is also a factor in drop-off rates

of discovery or perception of features. It is mitigated by alternating activities and personnel, checking interpretations with other team members and taking adequate visual breaks.

*Online aerial photographs and satellite-derived images*

- 8.20. Google Earth regularly uploads new images and attributes some images with the name of the provider and a date of capture. These dates are not verified, but for archaeological survey this is not a legally essential element of the metadata. The issue with data derived from geoportals such as Google Earth is that it changes and is added to; it is a dynamic collection of varied mosaiced dated images and varied resolutions of data derived from aerial photography and satellite imagery. During 2017-2018, Google began to capture its own data, and these layers are largely 'unattributed' in terms of provider. The main UK providers to Google Earth include Getmapping, Infoterra and Bluesky, The GeoInformation Group, Maxar and CNES/Airbus. The mosaic 'cuts' where images have been blended together and captured in different seasons are readily apparent, often within the same 'timeline' data.

*Aerial Imagery Limitations: Conclusion*

- 8.21. Aerial photograph assessments are often based on sequences of historical imagery which provide a series of 'snapshots' of the landscape under different conditions. In contrast, LiDAR and multi-spectral data are typically gathered at a single or series of closely spaced points in time. Levelled features which are now only visible as cropmarks are not usually visible *via* LiDAR data unless they are recorded as substantially differing vegetation heights within a DSM, or the features causing the cropmarks are still extant as micro topographic differences in the ground surface.
- 8.22. The limitations of these data sources are appreciated and considered during survey and use of multiple data sources. Multiple times of survey increases the discovery rate and certainty of interpretation from all airborne data sources when they are examined concurrently.

### *LiDAR Data*

- 8.23. LiDAR data are collected for multiple environmental and engineering survey purposes and are therefore sometimes not in compliance with optimum timeframes for heritage survey requirements. These data were processed in accordance with standards set by Historic England (2018) Bennett *et al* (2012), Štular *et al* (2012) and Hesse (2010). An optimum LiDAR survey date for recovery of micro and macro topographic heritage data spans late November to mid-March in the northern hemisphere. This is when leaf canopy and vegetation are at their lowest and a higher proportion of bare earth is exposed in both woodland and open areas to ensure that the laser pulses reach and return to and from the ground in sufficient density to record topography to create an accurate and detailed DTM.
- 8.24. Whilst of excellent high resolution, some data are not gathered at an optimal time for specific heritage survey purposes, as they are provided to serve the needs of multi-disciplinary surveys. A lower resolution survey captured during the winter months very often provides more data due to the lack of intervening vegetation which prevents sufficient laser points from reaching the ground surface. A low density of vegetation and leaf canopy is essential to the effectiveness of LiDAR survey in that it ensures maximum penetration of light signals to the ground surface in vegetated areas. The LiDAR data are, however, of assistance in recording some micro and more macro topographic features which may indicate relict or extant archaeological features and historic landscapes. They were used over the survey area in multiple visualisations alongside the aerial photographs and satellite image data. LiDAR data are best interpreted and used in conjunction with modern and historic aerial photographs and maps to provide ground truth information, and this was achieved in this survey.
- 8.25. For LiDAR data captured during 'leaf/crop on' conditions, less data is recorded due to foliage and vegetation masking the route of the laser. Similarly, areas of water will absorb the laser giving no returned points.
- 8.26. The majority of the NLP LiDAR data were collected between October and March, with varied dates for smaller surveys.



- 8.27. When the point cloud is processed into a DTM, reduced ground coverage results in a simplified geometry surface interpolated from the few available data points which can obstruct features of interest.
- 8.28. The horizontal cell resolution of LiDAR data can also influence the detection rates of archaeological features. This can occur where the spacing of point measurements is sufficiently wide to conceal or reduce the visibility of small archaeological features. This may have affected this assessment in areas where LiDAR data were gathered at 2m, 1m and 50cm resolutions as opposed to the more detailed 25cm resolution data. It is also important to note that LiDAR visualisation techniques are continually developing and advancing. The multiple visualisations now applied to DSM and DTM data *via* the RVT used for this survey are effective in heritage interpretation. Hillshade, and particularly fixed-direction Hillshade, visualisations do not show the correct position of the actual features, only the position of their virtual 'shadows' on the ground. It is thus important to use multiple visualisations of LiDAR data to ensure accurate positioning of recorded features and optimise the results.

*LiDAR data: conclusion*

- 8.29. The majority of the LiDAR data were captured at times of low leaf index; however, these data did not reveal consistently significant topographic heritage assets over the whole of this area. This is due to the eroded and buried nature of the cropmarked sites which constitute the majority of the aerial evidence which is largely eroded to sub-surface level. The LiDAR data indicates detailed evidence for the medieval and Post-Medieval rural landscape.

## 9. APPENDIX 2: Data which were used for this assessment

### Aerial Photographs

*Historic England Archive enquiry reference 136407*

#### Obliques

| Photo reference<br>(NGR and Index<br>number) | Film and frame number | Date        | NGR       |
|--|-----------------------|-------------|-----------|
| SP 4210 / 5                                  | RCA 11406 / 36        | Unknown     | SP 429109 |
| SP 4210 / 6                                  | RCA 11406 / 37        | Unknown     | SP 429109 |
| SP 4212 / 3                                  | NMR 4573 / 32         | 24 MAY 1990 | SP 429125 |
| SP 4212 / 4                                  | NMR 4371 / 33         | 24 MAY 1990 | SP 428123 |
| SP 4212 / 5                                  | NMR 4371 / 34         | 24 MAY 1990 | SP 428123 |
| SP 4310 / 1                                  | WAB 11637 / 1929      | 1961        | SP 431108 |
| SP 4310 / 2                                  | WAB 11637 / 1930      | 1961        | SP 431108 |
| SP 4310 / 5                                  | CCC 5249 / 6454       | 1930s       | SP 437105 |
| SP 4311 / 2                                  | CAP 8388 / 18         | Unknown     | SP 432115 |
| SP 4311 / 3                                  | CAP 8388 / 20         | Unknown     | SP 432115 |
| SP 4311 / 4                                  | WAB 11637 / 1931      | 1961        | SP 435114 |
| SP 4311 / 5                                  | RCA 11402 / 01        | Unknown     | SP 430114 |
| SP 4311 / 6                                  | RCA 11402 / 02        | Unknown     | SP 430114 |
| SP 4311 / 7                                  | RCA 11402 / 03        | Unknown     | SP 430114 |
| SP 4311 / 8                                  | NMR 717 / 216-218     | 21 JUN 1974 | SP 435115 |
| SP 4311 / 9                                  | NMR 882 / 348-351     | 27 JUL 1975 | SP 436113 |
| SP 4312 / 1                                  | CCC 5249 / 6452       | 06 JUN 1936 | SP 435121 |
| SP 4313 / 1                                  | NMR 4573 / 30         | 24 MAY 1990 | SP 434134 |
| SP 4313 / 2                                  | NMR 4573 / 31         | 24 MAY 1990 | SP 432133 |
| SP 4313 / 3                                  | NMR 4371 / 31         | 24 MAY 1990 | SP 433132 |
| SP 4313 / 4                                  | NMR 4371 / 32         | 24 MAY 1990 | SP 433132 |
| SP 4313 / 5                                  | HEA 29757 / 001       | 01 JUL 2015 | SP 432132 |
| SP 4313 / 6                                  | HEA 29757 / 002       | 01 JUL 2015 | SP 433132 |
| SP 4313 / 7                                  | HEA 29757 / 003       | 01 JUL 2015 | SP 432133 |
| SP 4313 / 8                                  | HEA 29757 / 004       | 01 JUL 2015 | SP 432133 |
| SP 4313 / 9                                  | HEA 29757 / 005       | 01 JUL 2015 | SP 433133 |
| SP 4313 / 10                                 | HEA 29757 / 006       | 01 JUL 2015 | SP 433133 |
| SP 4313 / 11                                 | HEA 29757 / 007       | 01 JUL 2015 | SP 433131 |
| SP 4313 / 12                                 | HEA 29757 / 008       | 01 JUL 2015 | SP 432131 |
| SP 4313 / 13                                 | HEA 33830 / 028       | 02 JUL 2019 | SP 433133 |
| SP 4313 / 14                                 | HEA 33830 / 029       | 02 JUL 2019 | SP 433132 |
| SP 4313 / 15                                 | HEA 33830 / 030       | 02 JUL 2019 | SP 434133 |
| SP 4313 / 16                                 | HEA 33830 / 031       | 02 JUL 2019 | SP 432132 |
| SP 4313 / 17                                 | HEA 33830 / 032       | 02 JUL 2019 | SP 433133 |
| SP 4313 / 18                                 | HEA 33830 / 033       | 02 JUL 2019 | SP 433132 |
| SP 4313 / 19                                 | HEA 33830 / 034       | 02 JUL 2019 | SP 433132 |
| SP 4313 / 20                                 | HEA 33830 / 035       | 02 JUL 2019 | SP 433132 |
| SP 4313 / 21                                 | HEA 33830 / 036       | 02 JUL 2019 | SP 433132 |
| SP 4410 / 2                                  | ACA 7253 / ORACLED1   | 1930s       | SP 441103 |
| SP 4410 / 3                                  | CCC 5250 / 6474       | 1930s       | SP 447105 |

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| Photo reference<br>(NGR and Index<br>number) | Film and frame number | Date        | NGR       |
|--|-----------------------|-------------|-----------|
| SP 4410 / 6                                  | HEA 33520 / 024       | 29 JUN 2018 | SP 445109 |
| SP 4410 / 7                                  | HEA 33520 / 025       | 29 JUN 2018 | SP 445109 |
| SP 4411 / 1                                  | NMR 15471 / 22        | 27 JUN 1996 | SP 444110 |
| SP 4411 / 2                                  | NMR 15471 / 23        | 27 JUN 1996 | SP 444110 |
| SP 4411 / 3                                  | NMR 15459 / 16        | 27 JUN 1996 | SP 444111 |
| SP 4411 / 4                                  | HEA 33520 / 021       | 29 JUN 2018 | SP 443111 |
| SP 4411 / 5                                  | HEA 33520 / 022       | 29 JUN 2018 | SP 443111 |
| SP 4411 / 6                                  | HEA 33520 / 023       | 29 JUN 2018 | SP 443111 |
| SP 4411 / 7                                  | HEA 33520 / 026       | 29 JUN 2018 | SP 444110 |
| SP 4412 / 1                                  | CCC 5250 / 6472       | 06 JUN 1936 | SP 447122 |
| SP 4414 / 2                                  | CAP 8110 / 74         | 26 APR 1953 | SP 449147 |
| SP 4414 / 3                                  | CAP 8110 / 75         | 26 APR 1953 | SP 449147 |
| SP 4414 / 4                                  | CAP 8110 / 76         | 26 APR 1953 | SP 442141 |
| SP 4414 / 5                                  | CAP 8110 / 77         | 26 APR 1953 | SP 442141 |
| SP 4414 / 6                                  | AFL 62499 / EAW049260 | 12 MAY 1953 | SP 442143 |
| SP 4414 / 9                                  | HEA 29855 / 045       | 04 MAY 2016 | SP 443146 |
| SP 4414 / 10                                 | HEA 29855 / 046       | 04 MAY 2016 | SP 442146 |
| SP 4414 / 11                                 | HEA 29855 / 048       | 04 MAY 2016 | SP 442146 |
| SP 4414 / 12                                 | HEA 29855 / 049       | 04 MAY 2016 | SP 444148 |
| SP 4418 / 1                                  | NMR 26370 / 05        | 01 JUL 2009 | SP 449186 |
| SP 4418 / 2                                  | NMR 26370 / 06        | 01 JUL 2009 | SP 449186 |
| SP 4418 / 3                                  | NMR 26370 / 07        | 01 JUL 2009 | SP 449186 |
| SP 4418 / 4                                  | NMR 26370 / 11        | 01 JUL 2009 | SP 449187 |
| SP 4418 / 5                                  | NMR 26370 / 12        | 01 JUL 2009 | SP 449187 |
| SP 4418 / 6                                  | NMR 26370 / 13        | 01 JUL 2009 | SP 449188 |
| SP 4418 / 7                                  | NMR 26370 / 20        | 01 JUL 2009 | SP 449188 |
| SP 4418 / 8                                  | NMR 26370 / 21        | 01 JUL 2009 | SP 449188 |
| SP 4510 / 15                                 | ACA 7109 / 250        | 05 JUN 1933 | SP 455105 |
| SP 4510 / 18                                 | ACA 7153 / 253        | 21 JUL 1933 | SP 452105 |
| SP 4510 / 20                                 | OCM 11195 / ORACLE3   | 21 MAR 1973 | SP 454106 |
| SP 4510 / 22                                 | CCC 5199 / HJT302     | 01 MAR 1929 | SP 455106 |
| SP 4510 / 23                                 | CCC 5199 / HJT303     | 19 APR 1929 | SP 455106 |
| SP 4511 / 1                                  | ACA 7206 / 260        | 30 JUN 1934 | SP 459112 |
| SP 4511 / 2                                  | ACA 7168 / 255        | 12 AUG 1933 | SP 457112 |
| SP 4511 / 4                                  | NMR 2177 / 018        | 10 AUG 1984 | SP 459110 |
| SP 4511 / 5                                  | NMR 3117 / 2175-2176  | 23 JUL 1986 | SP 459111 |
| SP 4511 / 6                                  | NMR 2177 / 019        | 10 AUG 1984 | SP 459110 |
| SP 4511 / 7                                  | NMR 2177 / 020        | 10 AUG 1984 | SP 459110 |
| SP 4511 / 8                                  | NMR 2177 / 021        | 10 AUG 1984 | SP 459110 |
| SP 4511 / 9                                  | NMR 4759 / 50         | 17 JUL 1992 | SP 455113 |
| SP 4511 / 10                                 | NMR 4759 / 51         | 17 JUL 1992 | SP 455113 |
| SP 4511 / 11                                 | NMR 4759 / 52         | 17 JUL 1992 | SP 455113 |
| SP 4511 / 12                                 | NMR 4759 / 53         | 17 JUL 1992 | SP 454114 |
| SP 4511 / 13                                 | NMR 4759 / 54         | 17 JUL 1992 | SP 454114 |
| SP 4511 / 14                                 | NMR 15459 / 17        | 27 JUN 1996 | SP 455111 |
| SP 4511 / 15                                 | NMR 15459 / 18        | 27 JUN 1996 | SP 455111 |
| SP 4511 / 16                                 | NMR 15459 / 20        | 27 JUN 1996 | SP 459110 |

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|--|-----------------------|-------------|-----------|
| SP 4511 / 17                                 | NMR 23128 / 01        | 24 JUN 2003 | SP 455112 |
| SP 4511 / 18                                 | NMR 23128 / 02        | 24 JUN 2003 | SP 455112 |
| SP 4511 / 19                                 | NMR 23091 / 00        | 24 JUN 2003 | SP 456113 |
| SP 4511 / 20                                 | NMR 23091 / 01        | 24 JUN 2003 | SP 456113 |
| SP 4511 / 21                                 | NMR 23091 / 02        | 24 JUN 2003 | SP 456113 |
| SP 4511 / 22                                 | NMR 23091 / 03        | 24 JUN 2003 | SP 455113 |
| SP 4515 / 1                                  | NMR 26370 / 26        | 01 JUL 2009 | SP 459154 |
| SP 4515 / 2                                  | NMR 26370 / 27        | 01 JUL 2009 | SP 459153 |
| SP 4515 / 3                                  | NMR 26370 / 33        | 01 JUL 2009 | SP 458154 |
| SP 4515 / 4                                  | NMR 26370 / 36        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 5                                  | NMR 26370 / 37        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 6                                  | NMR 26370 / 38        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 7                                  | NMR 26370 / 39        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 8                                  | NMR 26371 / 06        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 9                                  | NMR 26371 / 07        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 10                                 | NMR 26371 / 08        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 11                                 | NMR 26371 / 09        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 12                                 | NMR 26371 / 10        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 13                                 | NMR 26370 / 40        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 14                                 | NMR 26370 / 41        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 15                                 | NMR 26370 / 42        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 16                                 | NMR 26370 / 43        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 17                                 | NMR 26370 / 44        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 18                                 | NMR 26370 / 45        | 01 JUL 2009 | SP 457154 |
| SP 4515 / 19                                 | NMR 26370 / 46        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 20                                 | NMR 26370 / 47        | 01 JUL 2009 | SP 459153 |
| SP 4515 / 21                                 | NMR 26370 / 48        | 01 JUL 2009 | SP 459153 |
| SP 4515 / 22                                 | NMR 26370 / 49        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 23                                 | NMR 26371 / 01        | 01 JUL 2009 | SP 459153 |
| SP 4515 / 24                                 | NMR 26371 / 02        | 01 JUL 2009 | SP 459153 |
| SP 4515 / 25                                 | NMR 26371 / 03        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 26                                 | NMR 26371 / 04        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 27                                 | NMR 26371 / 05        | 01 JUL 2009 | SP 458153 |
| SP 4515 / 30                                 | AFL 62028 / EAW030813 | 05 JUL 1950 | SP 459154 |
| SP 4515 / 32                                 | AFL 62028 / EAW030816 | 05 JUL 1950 | SP 459153 |
| SP 4517 / 1                                  | NMR 15703 / 04        | 15 JUL 1997 | SP 453178 |
| SP 4517 / 2                                  | NMR 26368 / 24        | 01 JUL 2009 | SP 452176 |
| SP 4517 / 3                                  | NMR 26368 / 25        | 01 JUL 2009 | SP 453177 |
| SP 4517 / 4                                  | NMR 26368 / 26        | 01 JUL 2009 | SP 453179 |
| SP 4517 / 5                                  | NMR 26368 / 27        | 01 JUL 2009 | SP 453179 |
| SP 4517 / 6                                  | NMR 26368 / 28        | 01 JUL 2009 | SP 452178 |
| SP 4517 / 7                                  | NMR 26368 / 29        | 01 JUL 2009 | SP 452179 |
| SP 4517 / 8                                  | NMR 26368 / 30        | 01 JUL 2009 | SP 453179 |
| SP 4518 / 1                                  | ACA 7203 / 610        | 23 JUN 1934 | SP 454180 |
| SP 4518 / 2                                  | ACA 7343 / 611        | 30 JUN 1934 | SP 453181 |
| SP 4518 / 3                                  | CCC 5250 / 6566       | 1930s       | SP 453189 |
| SP 4518 / 4                                  | NMR 15456 / 14        | 15 JUL 1996 | SP 452189 |

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|--|-----------------------|-------------|-----------|
| SP 4518 / 5                                  | NMR 15456 / 15        | 15 JUL 1996 | SP 452189 |
| SP 4518 / 6                                  | NMR 15456 / 16        | 15 JUL 1996 | SP 452189 |
| SP 4518 / 7                                  | NMR 15456 / 17        | 15 JUL 1996 | SP 452189 |
| SP 4518 / 8                                  | NMR 15458 / 11        | 17 JUL 1996 | SP 452189 |
| SP 4518 / 9                                  | NMR 15467 / 01        | 27 JUN 1996 | SP 451188 |
| SP 4518 / 10                                 | NMR 15467 / 02        | 27 JUN 1996 | SP 451188 |
| SP 4518 / 11                                 | NMR 15467 / 03        | 27 JUN 1996 | SP 452189 |
| SP 4518 / 12                                 | NMR 15467 / 04        | 27 JUN 1996 | SP 452189 |
| SP 4518 / 13                                 | NMR 15410 / 15        | 27 JUN 1996 | SP 452189 |
| SP 4518 / 14                                 | NMR 15410 / 16        | 27 JUN 1996 | SP 452189 |
| SP 4518 / 15                                 | NMR 15410 / 17        | 27 JUN 1996 | SP 452189 |
| SP 4518 / 16                                 | NMR 15459 / 27        | 04 JUL 1996 | SP 452189 |
| SP 4518 / 17                                 | NMR 15459 / 28        | 04 JUL 1996 | SP 451187 |
| SP 4518 / 18                                 | NMR 15459 / 29        | 04 JUL 1996 | SP 452188 |
| SP 4518 / 19                                 | NMR 15459 / 30        | 04 JUL 1996 | SP 452188 |
| SP 4518 / 20                                 | NMR 15459 / 32        | 04 JUL 1996 | SP 452188 |
| SP 4518 / 21                                 | NMR 15472 / 01        | 04 JUL 1996 | SP 453189 |
| SP 4518 / 22                                 | NMR 15472 / 02        | 04 JUL 1996 | SP 452189 |
| SP 4518 / 23                                 | NMR 15472 / 03        | 04 JUL 1996 | SP 451188 |
| SP 4518 / 24                                 | NMR 15472 / 04        | 04 JUL 1996 | SP 451188 |
| SP 4518 / 25                                 | NMR 15472 / 05        | 04 JUL 1996 | SP 452188 |
| SP 4518 / 26                                 | NMR 15472 / 06        | 04 JUL 1996 | SP 453188 |
| SP 4518 / 27                                 | NMR 15454 / 23        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 28                                 | NMR 15454 / 24        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 29                                 | NMR 15454 / 25        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 30                                 | NMR 15454 / 26        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 31                                 | NMR 15454 / 27        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 32                                 | NMR 15454 / 28        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 33                                 | NMR 15454 / 29        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 34                                 | NMR 15454 / 30        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 35                                 | NMR 15454 / 31        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 36                                 | NMR 15454 / 32        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 37                                 | NMR 15454 / 33        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 38                                 | NMR 15473 / 03        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 39                                 | NMR 15473 / 04        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 40                                 | NMR 15473 / 05        | 11 JUL 1996 | SP 453189 |
| SP 4518 / 41                                 | NMR 15473 / 06        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 42                                 | NMR 15473 / 07        | 11 JUL 1996 | SP 452189 |
| SP 4518 / 43                                 | NMR 15491 / 14        | 15 JUL 1996 | SP 452189 |
| SP 4518 / 44                                 | NMR 15491 / 15        | 15 JUL 1996 | SP 452189 |
| SP 4518 / 45                                 | NMR 15491 / 16        | 15 JUL 1996 | SP 452189 |
| SP 4518 / 46                                 | NMR 15743 / 16        | 15 JUL 1997 | SP 452188 |
| SP 4518 / 47                                 | NMR 15743 / 17        | 15 JUL 1997 | SP 452188 |
| SP 4518 / 48                                 | NMR 15743 / 18        | 15 JUL 1997 | SP 452180 |
| SP 4518 / 49                                 | NMR 15743 / 19        | 15 JUL 1997 | SP 452180 |
| SP 4518 / 50                                 | NMR 15703 / 03        | 15 JUL 1997 | SP 452188 |
| SP 4518 / 51                                 | NMR 18724 / 15        | 17 JUL 2000 | SP 453180 |

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|--|-----------------------|-------------|-----------|
| SP 4518 / 52                                 | NMR 18724 / 16        | 17 JUL 2000 | SP 453181 |
| SP 4518 / 53                                 | NMR 18724 / 17        | 17 JUL 2000 | SP 453181 |
| SP 4518 / 54                                 | NMR 21373 / 11        | 01 AUG 2001 | SP 452189 |
| SP 4518 / 55                                 | NMR 21373 / 12        | 01 AUG 2001 | SP 452189 |
| SP 4518 / 56                                 | NMR 21335 / 29        | 01 AUG 2001 | SP 452189 |
| SP 4518 / 57                                 | NMR 21335 / 30        | 01 AUG 2001 | SP 452189 |
| SP 4518 / 58                                 | NMR 21335 / 31        | 01 AUG 2001 | SP 451189 |
| SP 4518 / 59                                 | NMR 21335 / 32        | 01 AUG 2001 | SP 451189 |
| SP 4518 / 60                                 | NMR 21335 / 33        | 01 AUG 2001 | SP 451189 |
| SP 4518 / 61                                 | NMR 21335 / 34        | 01 AUG 2001 | SP 451189 |
| SP 4518 / 62                                 | NMR 26368 / 20        | 01 JUL 2009 | SP 456180 |
| SP 4518 / 63                                 | NMR 26368 / 21        | 01 JUL 2009 | SP 455180 |
| SP 4518 / 64                                 | NMR 26368 / 22        | 01 JUL 2009 | SP 455180 |
| SP 4518 / 65                                 | NMR 26368 / 23        | 01 JUL 2009 | SP 455180 |
| SP 4518 / 66                                 | NMR 26368 / 31        | 01 JUL 2009 | SP 453180 |
| SP 4518 / 67                                 | NMR 26368 / 32        | 01 JUL 2009 | SP 453180 |
| SP 4518 / 68                                 | NMR 26368 / 33        | 01 JUL 2009 | SP 453181 |
| SP 4518 / 69                                 | NMR 26368 / 34        | 01 JUL 2009 | SP 453182 |
| SP 4518 / 70                                 | NMR 26368 / 35        | 01 JUL 2009 | SP 453182 |
| SP 4518 / 71                                 | NMR 26370 / 01        | 01 JUL 2009 | SP 452189 |
| SP 4518 / 72                                 | NMR 26370 / 02        | 01 JUL 2009 | SP 452189 |
| SP 4518 / 73                                 | NMR 26370 / 08        | 01 JUL 2009 | SP 450188 |
| SP 4518 / 74                                 | NMR 26370 / 09        | 01 JUL 2009 | SP 450188 |
| SP 4518 / 75                                 | NMR 26370 / 10        | 01 JUL 2009 | SP 450188 |
| SP 4518 / 76                                 | NMR 26370 / 14        | 01 JUL 2009 | SP 450187 |
| SP 4518 / 77                                 | NMR 26370 / 15        | 01 JUL 2009 | SP 450187 |
| SP 4518 / 78                                 | NMR 26370 / 16        | 01 JUL 2009 | SP 450187 |
| SP 4518 / 79                                 | NMR 26370 / 17        | 01 JUL 2009 | SP 450187 |
| SP 4518 / 80                                 | NMR 26370 / 18        | 01 JUL 2009 | SP 450187 |
| SP 4518 / 81                                 | NMR 26370 / 19        | 01 JUL 2009 | SP 450187 |
| SP 4519 / 1                                  | CCC 5250 / 6565       | 1930s       | SP 453192 |
| SP 4519 / 2                                  | NMR 15456 / 18        | 15 JUL 1996 | SP 452195 |
| SP 4519 / 3                                  | NMR 15467 / 05        | 27 JUN 1996 | SP 452190 |
| SP 4519 / 4                                  | NMR 15467 / 06        | 27 JUN 1996 | SP 452190 |
| SP 4519 / 5                                  | NMR 15410 / 18        | 27 JUN 1996 | SP 453191 |
| SP 4519 / 6                                  | NMR 15459 / 31        | 04 JUL 1996 | SP 453190 |
| SP 4519 / 7                                  | NMR 15459 / 33        | 04 JUL 1996 | SP 453192 |
| SP 4519 / 8                                  | NMR 15491 / 17        | 15 JUL 1996 | SP 452195 |
| SP 4519 / 9                                  | NMR 15491 / 18        | 15 JUL 1996 | SP 452195 |
| SP 4519 / 10                                 | NMR 21373 / 10        | 01 AUG 2001 | SP 452190 |
| SP 4519 / 11                                 | NMR 21373 / 13        | 01 AUG 2001 | SP 452190 |
| SP 4519 / 12                                 | NMR 21373 / 14        | 01 AUG 2001 | SP 451192 |
| SP 4519 / 13                                 | NMR 21373 / 15        | 01 AUG 2001 | SP 451192 |
| SP 4519 / 20                                 | NMR 26370 / 03        | 01 JUL 2009 | SP 453191 |
| SP 4519 / 21                                 | NMR 26370 / 04        | 01 JUL 2009 | SP 453191 |
| SP 4520 / 1                                  | NMR 15467 / 07        | 27 JUN 1996 | SP 450206 |
| SP 4520 / 2                                  | NMR 15467 / 08        | 27 JUN 1996 | SP 450206 |

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| SP 4520 / 3                            | NMR 15410 / 19        | 27 JUN 1996 | SP 450206 |
| SP 4520 / 4                            | NMR 15410 / 20        | 27 JUN 1996 | SP 459207 |
| SP 4520 / 5                            | HEA 33828 / 035       | 02 JUL 2019 | SP 458207 |
| SP 4520 / 6                            | HEA 33828 / 036       | 02 JUL 2019 | SP 457207 |
| SP 4520 / 7                            | HEA 33828 / 037       | 02 JUL 2019 | SP 458206 |
| SP 4521 / 1                            | NMR 23980 / 05        | 19 JUL 2005 | SP 457219 |
| SP 4521 / 2                            | NMR 23980 / 06        | 19 JUL 2005 | SP 457218 |
| SP 4611 / 1                            | NMR 2177 / 015        | 10 AUG 1984 | SP 461110 |
| SP 4611 / 2                            | NMR 3117 / 2173-2174  | 23 JUL 1986 | SP 460113 |
| SP 4611 / 3                            | NMR 2177 / 016        | 10 AUG 1984 | SP 461110 |
| SP 4611 / 4                            | NMR 2177 / 017        | 10 AUG 1984 | SP 461110 |
| SP 4611 / 7                            | NMR 4759 / 55         | 17 JUL 1992 | SP 468113 |
| SP 4611 / 8                            | NMR 15459 / 19        | 27 JUN 1996 | SP 460111 |
| SP 4612 / 1                            | CCC 5250 / 6492       | 06 JUN 1936 | SP 460120 |
| SP 4614 / 1                            | NMR 24398 / 01        | 30 AUG 2006 | SP 468146 |
| SP 4615 / 5                            | NMR 26370 / 22        | 01 JUL 2009 | SP 461152 |
| SP 4615 / 6                            | NMR 26370 / 23        | 01 JUL 2009 | SP 461152 |
| SP 4615 / 7                            | NMR 26370 / 24        | 01 JUL 2009 | SP 461151 |
| SP 4615 / 8                            | NMR 26370 / 25        | 01 JUL 2009 | SP 460154 |
| SP 4615 / 9                            | NMR 26370 / 28        | 01 JUL 2009 | SP 462152 |
| SP 4615 / 10                           | NMR 26370 / 29        | 01 JUL 2009 | SP 462152 |
| SP 4615 / 11                           | NMR 26370 / 30        | 01 JUL 2009 | SP 462152 |
| SP 4615 / 12                           | NMR 26370 / 31        | 01 JUL 2009 | SP 460153 |
| SP 4615 / 13                           | NMR 26370 / 32        | 01 JUL 2009 | SP 460153 |
| SP 4615 / 14                           | NMR 26370 / 34        | 01 JUL 2009 | SP 462152 |
| SP 4615 / 15                           | NMR 26370 / 35        | 01 JUL 2009 | SP 462152 |
| SP 4615 / 20                           | AFL 62028 / EAW030803 | 05 JUL 1950 | SP 460154 |
| SP 4615 / 25                           | AFL 62028 / EAW030811 | 05 JUL 1950 | SP 461153 |
| SP 4615 / 26                           | AFL 62028 / EAW030812 | 05 JUL 1950 | SP 460153 |
| SP 4620 / 4                            | NMR 15467 / 09        | 27 JUN 1996 | SP 460206 |
| SP 4620 / 5                            | NMR 15467 / 10        | 27 JUN 1996 | SP 460206 |

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| Library and frame number | Photo reference (NGR and Index number) | Original number | Date        | NGR       |
|--------------------------|--|-----------------|-------------|-----------|
| MSO 31293 / PO-0056      | SP 4611 / 14                           | US/7PH/GP/LOC5  | 27 JUL 1943 | SP 467114 |
| MSO 31293 / PO-0057      | SP 4611 / 15                           | US/7PH/GP/LOC5  | 27 JUL 1943 | SP 465113 |

### Verticals held as prints for consultation

| Sortie number    | Frame number | Centre point | Run | Date        | Sortie quality | Scale 1: |
|------------------|--------------|--------------|-----|-------------|----------------|----------|
| RAF/106G/UK/1347 | 7243         | SP 454 208   | 7   | 01 APR 1946 | A              | 9600     |
| RAF/106G/UK/1347 | 7464         | SP 453 193   | 9   | 01 APR 1946 | A              | 9600     |

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|------------------|--------------|--------------|-----|-------------|----------------|----------|
| RAF/106G/UK/1408 | 4027         | SP 462 045   | 12  | 12 APR 1946 | A              | 10800    |
| RAF/106G/UK/1558 | 3153         | SP 464 135   | 3   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3154         | SP 459 135   | 3   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3155         | SP 453 135   | 3   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3156         | SP 448 135   | 3   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3157         | SP 443 135   | 3   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3388         | SP 435 129   | 4   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3389         | SP 441 129   | 4   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3390         | SP 448 129   | 4   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3391         | SP 454 129   | 4   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3392         | SP 460 130   | 4   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3433         | SP 462 174   | 2   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1558 | 3434         | SP 457 174   | 2   | 07 JUN 1946 | AC             | 10300    |
| RAF/106G/UK/1721 | 2212         | SP 462 060   | 10  | 06 SEP 1946 | AC             | 9930     |
| RAF/106G/UK/1721 | 2213         | SP 458 057   | 10  | 06 SEP 1946 | AC             | 9930     |
| RAF/106G/UK/1721 | 2214         | SP 453 055   | 10  | 06 SEP 1946 | AC             | 9930     |
| RAF/106G/UK/1721 | 6212         | SP 457 124   | 30  | 06 SEP 1946 | AC             | 9930     |
| RAF/106G/UK/1721 | 6213         | SP 452 120   | 30  | 06 SEP 1946 | AC             | 9930     |
| RAF/106G/UK/1721 | 6214         | SP 447 116   | 30  | 06 SEP 1946 | AC             | 9930     |
| RAF/106G/UK/1721 | 6215         | SP 441 112   | 30  | 06 SEP 1946 | AC             | 9930     |
| RAF/106G/UK/1721 | 6216         | SP 435 112   | 30  | 06 SEP 1946 | AC             | 9930     |
| RAF/CPE/UK/1846  | 1099         | SP 438 119   | 4   | 18 NOV 1946 | AC             | 13750    |
| RAF/CPE/UK/1846  | 1100         | SP 445 118   | 4   | 18 NOV 1946 | AC             | 13750    |
| RAF/CPE/UK/1846  | 1101         | SP 451 117   | 4   | 18 NOV 1946 | AC             | 13750    |
| RAF/CPE/UK/1846  | 1102         | SP 458 116   | 4   | 18 NOV 1946 | AC             | 13750    |
| RAF/CPE/UK/1846  | 4089         | SP 460 054   | 16  | 18 NOV 1946 | AC             | 13750    |
| RAF/CPE/UK/1936  | 1463         | SP 450 145   | 11  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 1464         | SP 455 143   | 11  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 1465         | SP 462 142   | 11  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 2429         | SP 443 110   | 20  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 2479         | SP 437 136   | 23  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 2480         | SP 443 133   | 23  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 2481         | SP 450 130   | 23  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 2482         | SP 456 127   | 23  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 2483         | SP 463 124   | 23  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 3459         | SP 434 124   | 32  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 3460         | SP 441 123   | 32  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 3461         | SP 448 122   | 32  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 3462         | SP 454 121   | 32  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 3463         | SP 461 120   | 32  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 4427         | SP 465 136   | 41  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 4428         | SP 459 136   | 41  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 4429         | SP 454 135   | 41  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 4430         | SP 448 134   | 41  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 4431         | SP 443 133   | 41  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 4432         | SP 437 132   | 41  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 4482         | SP 434 114   | 45  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1936  | 4483         | SP 440 111   | 45  | 18 JAN 1947 | AB             | 9960     |

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|-----------------|--------------|--------------|-----|-------------|----------------|----------|
| RAF/CPE/UK/1936 | 4484         | SP 447 108   | 45  | 18 JAN 1947 | AB             | 9960     |
| RAF/CPE/UK/1897 | 3122         | SP 456 101   | 3   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3123         | SP 450 101   | 3   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3124         | SP 444 101   | 3   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3125         | SP 438 101   | 3   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3338         | SP 467 141   | 7   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3339         | SP 461 140   | 7   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3340         | SP 456 140   | 7   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3341         | SP 450 140   | 7   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3342         | SP 445 139   | 7   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3343         | SP 439 139   | 7   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 3344         | SP 434 138   | 7   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 4121         | SP 461 117   | 9   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 4122         | SP 455 118   | 9   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 4123         | SP 449 118   | 9   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 4124         | SP 443 118   | 9   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 4125         | SP 436 118   | 9   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1897 | 4126         | SP 430 119   | 9   | 12 DEC 1946 | AB             | 9800     |
| RAF/CPE/UK/1960 | 3007         | SP 465 181   | 1   | 09 APR 1947 | AC             | 9840     |
| RAF/CPE/UK/1960 | 3008         | SP 459 182   | 1   | 09 APR 1947 | AC             | 9840     |
| RAF/CPE/UK/1960 | 3009         | SP 453 182   | 1   | 09 APR 1947 | AC             | 9840     |
| RAF/CPE/UK/1960 | 3010         | SP 447 183   | 1   | 09 APR 1947 | AC             | 9840     |
| RAF/CPE/UK/1960 | 3032         | SP 455 219   | 2   | 09 APR 1947 | AC             | 9840     |
| RAF/CPE/UK/1960 | 4009         | SP 456 199   | 8   | 09 APR 1947 | AC             | 9840     |
| RAF/CPE/UK/1960 | 4010         | SP 450 200   | 8   | 09 APR 1947 | AC             | 9840     |
| RAF/CPE/UK/2013 | 3242         | SP 455 185   | 12  | 16 APR 1947 | A              | 9800     |
| RAF/CPE/UK/2013 | 3243         | SP 448 186   | 12  | 16 APR 1947 | A              | 9800     |
| RAF/CPE/UK/2013 | 4125         | SP 458 199   | 19  | 16 APR 1947 | A              | 9800     |
| RAF/CPE/UK/2013 | 4126         | SP 451 198   | 19  | 16 APR 1947 | A              | 9800     |
| RAF/540/306     | 5098         | SP 462 113   | 4   | 07 APR 1950 | A              | 4400     |
| RAF/540/306     | 5099         | SP 460 113   | 4   | 07 APR 1950 | A              | 4400     |
| RAF/540/306     | 5100         | SP 457 114   | 4   | 07 APR 1950 | A              | 4400     |
| RAF/540/306     | 5101         | SP 455 115   | 4   | 07 APR 1950 | A              | 4400     |
| RAF/540/306     | 5102         | SP 453 115   | 4   | 07 APR 1950 | A              | 4400     |
| FSL/6125        | 6027         | SP 467 133   | 27  | 1961        | A              | 8000     |
| FSL/6125        | 6028         | SP 460 133   | 27  | 1961        | A              | 8000     |
| FSL/6125        | 6029         | SP 454 132   | 27  | 1961        | A              | 8000     |
| FSL/6125        | 6030         | SP 447 132   | 27  | 1961        | A              | 8000     |
| FSL/6125        | 6031         | SP 440 132   | 27  | 1961        | A              | 8000     |
| FSL/6125        | 6032         | SP 434 132   | 27  | 1961        | A              | 8000     |
| FSL/6125        | 6109         | SP 446 147   | 28  | 1961        | A              | 8000     |
| FSL/6125        | 6110         | SP 453 147   | 28  | 1961        | A              | 8000     |
| FSL/6125        | 6111         | SP 460 146   | 28  | 1961        | A              | 8000     |
| FSL/6125        | 6112         | SP 467 146   | 28  | 1961        | A              | 8000     |
| FSL/6125        | 9037         | SP 451 175   | 35  | 1961        | A              | 8000     |
| FSL/6125        | 9038         | SP 458 175   | 35  | 1961        | A              | 8000     |
| FSL/6125        | 9039         | SP 465 175   | 35  | 1961        | A              | 8000     |
| FSL/6125        | 10028        | SP 462 187   | 36  | 1961        | A              | 8000     |

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|---------------|--------------|--------------|-----|-------------|----------------|----------|
| FSL/6125      | 10029        | SP 455 186   | 36  | 1961        | A              | 8000     |
| FSL/6125      | 10030        | SP 448 186   | 36  | 1961        | A              | 8000     |
| FSL/6125      | 11069        | SP 453 200   | 39  | 1961        | A              | 8000     |
| FSL/6125      | 11070        | SP 460 200   | 39  | 1961        | A              | 8000     |
| FSL/6125      | 12030        | SP 459 211   | 42  | 1961        | A              | 8000     |
| FSL/6125      | 12031        | SP 452 211   | 42  | 1961        | A              | 8000     |
| FSL/6122      | 5029         | SP 454 105   | 1   | JUN 1961    | A              | 8000     |
| FSL/6122      | 5030         | SP 447 105   | 1   | JUN 1961    | A              | 8000     |
| FSL/6122      | 5031         | SP 440 105   | 1   | JUN 1961    | A              | 8000     |
| FSL/6122      | 5102         | SP 432 118   | 2   | JUN 1961    | A              | 8000     |
| FSL/6122      | 5103         | SP 439 118   | 2   | JUN 1961    | A              | 8000     |
| FSL/6122      | 5104         | SP 445 118   | 2   | JUN 1961    | A              | 8000     |
| FSL/6122      | 5105         | SP 451 118   | 2   | JUN 1961    | A              | 8000     |
| FSL/6122      | 5106         | SP 457 118   | 2   | JUN 1961    | A              | 8000     |
| FSL/6122      | 5107         | SP 464 118   | 2   | JUN 1961    | A              | 8000     |
| RAF/82/1006   | 294          | SP 466 205   | 51  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 295          | SP 469 194   | 51  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 296          | SP 471 183   | 51  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 295          | SP 440 191   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 296          | SP 443 180   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 297          | SP 445 169   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 298          | SP 448 158   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 299          | SP 451 147   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 300          | SP 453 136   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 301          | SP 456 125   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 302          | SP 459 113   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 307          | SP 472 058   | 62  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 301          | SP 422 118   | 73  | 31 AUG 1954 | AB             | 15000    |
| RAF/82/1006   | 307          | SP 438 051   | 73  | 31 AUG 1954 | AB             | 15000    |
| RAF/541/340   | 3045         | SP 468 132   | 1   | 26 JUL 1949 | AB             | 10000    |
| RAF/541/340   | 3046         | SP 460 132   | 1   | 26 JUL 1949 | AB             | 10000    |
| RAF/541/340   | 3047         | SP 453 175   | 2   | 26 JUL 1949 | AB             | 10000    |
| RAF/541/340   | 3048         | SP 464 171   | 2   | 26 JUL 1949 | AB             | 10000    |
| RAF/541/340   | 4046         | SP 463 149   | 13  | 26 JUL 1949 | AB             | 10000    |
| RAF/541/272   | 3151         | SP 434 110   | 2   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3152         | SP 440 110   | 2   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3153         | SP 446 109   | 2   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3154         | SP 452 109   | 2   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3155         | SP 458 109   | 2   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3317         | SP 465 144   | 3   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3318         | SP 459 144   | 3   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3319         | SP 453 144   | 3   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3320         | SP 447 144   | 3   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 3321         | SP 442 144   | 3   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 4088         | SP 463 125   | 4   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 4089         | SP 457 125   | 4   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 4090         | SP 451 125   | 4   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272   | 4091         | SP 445 125   | 4   | 21 JUN 1949 | A              | 10000    |

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|------------------|--------------|--------------|-----|-------------|----------------|----------|
| RAF/541/272      | 4092         | SP 439 125   | 4   | 21 JUN 1949 | A              | 10000    |
| RAF/541/272      | 4093         | SP 433 125   | 4   | 21 JUN 1949 | A              | 10000    |
| RAF/540/1768     | 43           | SP 432 116   | 3   | 03 JAN 1956 | AB             | 5000     |
| RAF/540/669      | 3145         | SP 462 048   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3146         | SP 462 055   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3155         | SP 462 115   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3156         | SP 462 122   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3157         | SP 462 129   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3158         | SP 462 135   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3159         | SP 461 142   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3160         | SP 461 149   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3164         | SP 461 177   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3165         | SP 461 184   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3166         | SP 460 190   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3167         | SP 460 197   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3168         | SP 460 204   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/669      | 3169         | SP 460 211   | 1   | 08 FEB 1952 | AB             | 10000    |
| RAF/540/666      | 3117         | SP 460 205   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3118         | SP 461 199   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3119         | SP 463 193   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3120         | SP 464 186   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3121         | SP 463 181   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3128         | SP 459 144   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3129         | SP 458 139   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3130         | SP 458 133   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3131         | SP 457 128   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3132         | SP 456 123   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3133         | SP 456 116   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3134         | SP 456 109   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 3143         | SP 453 050   | 4   | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 4119         | SP 444 191   | 10  | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 4120         | SP 445 184   | 10  | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 4129         | SP 440 138   | 10  | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 4130         | SP 439 133   | 10  | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 4131         | SP 439 128   | 10  | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 4132         | SP 438 123   | 10  | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 4133         | SP 438 116   | 10  | 04 FEB 1952 | A              | 10000    |
| RAF/540/666      | 4134         | SP 438 109   | 10  | 04 FEB 1952 | A              | 10000    |
| RAF/106G/UK/1413 | 3223         | SP 460 057   | 4   | 14 APR 1946 | A              | 9800     |
| RAF/106G/UK/1413 | 3224         | SP 455 057   | 4   | 14 APR 1946 | A              | 9800     |
| US/7PH/GP/LOC268 | 7009         | SP 454 200   | 9   | 11 APR 1944 | AC             | 10000    |
| US/7PH/GP/LOC268 | 7010         | SP 455 186   | 9   | 11 APR 1944 | AC             | 10000    |
| OS/71066         | 48           | SP 450 211   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066         | 49           | SP 450 205   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066         | 50           | SP 450 198   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066         | 51           | SP 450 192   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066         | 52           | SP 450 185   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066         | 58           | SP 449 146   | 2   | 11 APR 1971 | A              | 7000     |

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|---------------|--------------|--------------|-----|-------------|----------------|----------|
| OS/71066      | 59           | SP 449 140   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 60           | SP 449 133   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 61           | SP 449 127   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 62           | SP 449 120   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 63           | SP 449 114   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 64           | SP 449 108   | 2   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 127          | SP 438 137   | 4   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 128          | SP 438 131   | 4   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 129          | SP 438 124   | 4   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 130          | SP 438 117   | 4   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 131          | SP 438 111   | 4   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 195          | SP 428 127   | 6   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 196          | SP 428 120   | 6   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 197          | SP 428 114   | 6   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 257          | SP 460 110   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 258          | SP 460 117   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 259          | SP 460 124   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 260          | SP 460 131   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 261          | SP 460 138   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 262          | SP 460 145   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 263          | SP 460 153   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 267          | SP 460 181   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 268          | SP 460 188   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 269          | SP 460 195   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 270          | SP 460 203   | 9   | 11 APR 1971 | A              | 7000     |
| OS/71066      | 271          | SP 460 209   | 9   | 11 APR 1971 | A              | 7000     |
| OS/85206      | 54           | SP 452 053   | 1   | 07 SEP 1985 | A              | 7800     |
| OS/68236      | 277          | SP 447 115   | 3   | 01 JUL 1968 | A              | 7500     |
| OS/68236      | 278          | SP 446 110   | 3   | 01 JUL 1968 | A              | 7500     |
| OS/68236      | 308          | SP 469 050   | 4   | 01 JUL 1968 | A              | 7500     |
| OS/68236      | 319          | SP 469 118   | 4   | 01 JUL 1968 | A              | 7500     |
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| OS/75312      | 141          | SP 459 194   | 4   | 05 JUL 1975 | A              | 10600    |
| OS/75312      | 143          | SP 460 176   | 5   | 05 JUL 1975 | A              | 10600    |
| OS/75392      | 176          | SP 453 211   | 1   | 21 SEP 1975 | A              | 11000    |
| OS/75392      | 177          | SP 461 209   | 1   | 21 SEP 1975 | A              | 11000    |
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| OS/90016      | 260          | SP 451 145   | 1   | 16 MAR 1990 | A              | 7700     |
| OS/90016      | 261          | SP 462 144   | 1   | 16 MAR 1990 | A              | 7700     |
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| Sortie number | Frame number | Centre point | Run | Date        | Sortie quality | Scale 1: |
|---------------|--------------|--------------|-----|-------------|----------------|----------|
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| OS/90016      | 293          | SP 452 118   | 3   | 16 MAR 1990 | A              | 7700     |
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| OS/90016      | 325          | SP 450 105   | 4   | 16 MAR 1990 | A              | 7700     |
| OS/90016      | 326          | SP 442 105   | 4   | 16 MAR 1990 | A              | 7700     |
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| OS/90017      | 390          | SP 459 053   | 1   | 16 MAR 1990 | A              | 5100     |
| OS/90017      | 391          | SP 465 053   | 1   | 16 MAR 1990 | A              | 5100     |
| OS/90017      | 392          | SP 470 053   | 1   | 16 MAR 1990 | A              | 5100     |
| OS/90017      | 434          | SP 468 058   | 2   | 16 MAR 1990 | A              | 5100     |
| OS/96633      | 31           | SP 454 205   | 1   | 15 JUN 1996 | A              | 7900     |
| OS/96633      | 113          | SP 454 215   | 3   | 15 JUN 1996 | A              | 7900     |
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| RAF/540/673   | 3121         | SP 436 122   | 3   | 12 FEB 1952 | A              | 10000    |
| RAF/540/673   | 3122         | SP 437 128   | 3   | 12 FEB 1952 | A              | 10000    |
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|---------------|--------------|--------------|-----|-------------|----------------|----------|
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#### LiDAR tiles

| OS Tilename | Year Captured | Resolution (m) |
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| SP4005      | 2020          | 1              |
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| SP4020      | 2020          | 1              |
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| SP4212      | 2009          | 1              |
| SP4214      | 2009          | 1              |
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| SP4410      | 2014          | 1              |
| SP4412      | 2009          | 1              |

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| OS Tilename | Year Captured | Resolution (m) |
|-------------|---------------|----------------|
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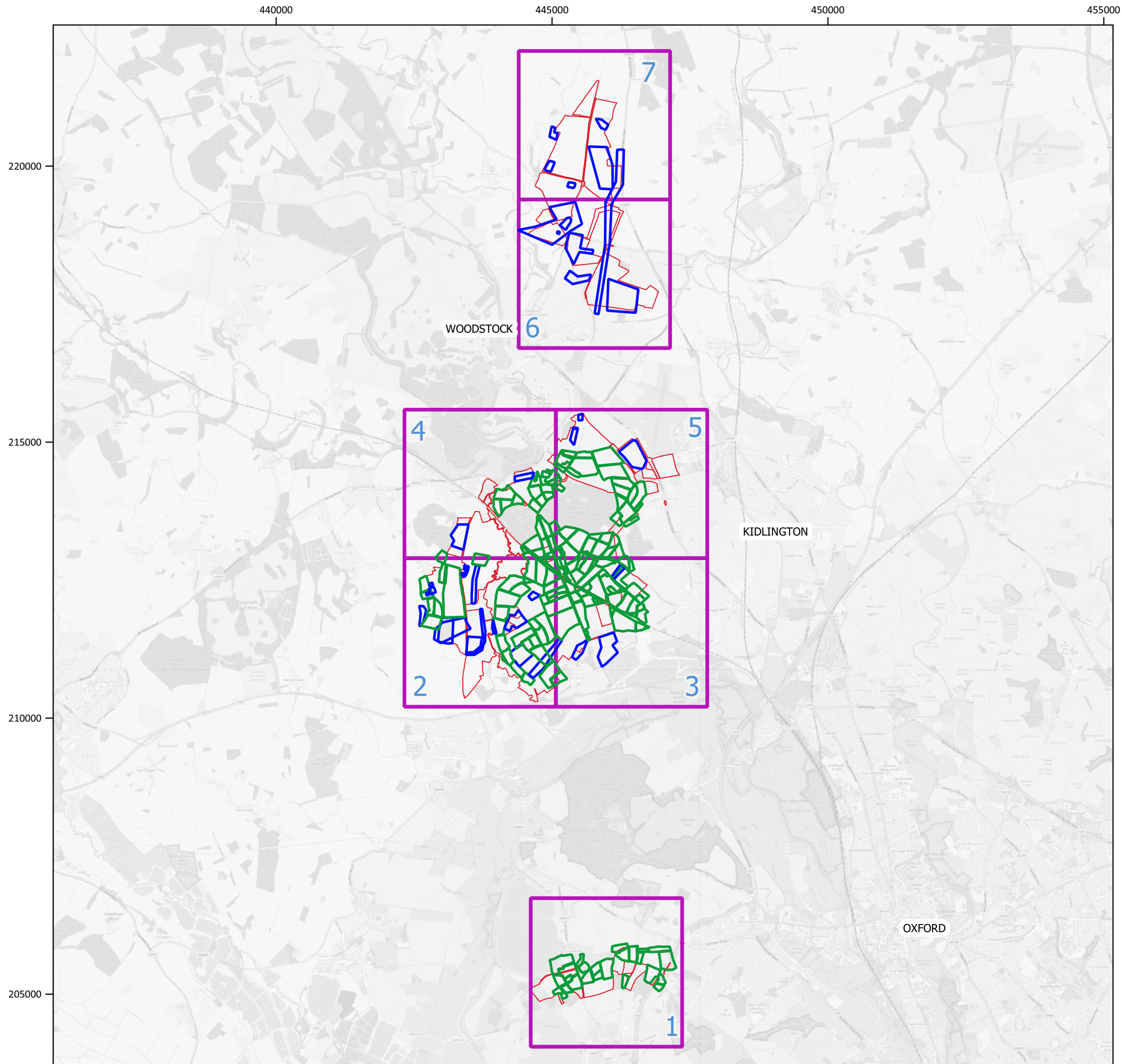
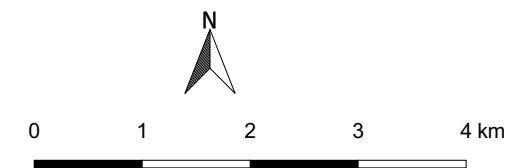


Figure 08: Mapbook Index

- Botley West Site Areas
- Mapbook Page Number and Extent
- Ridge and Furrow Extents
- Site Extents



**Botley West**  
Assessment of Aerial Imagery

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 Project APS 222 10 01  
 By Adam Jarvis ACIfA  
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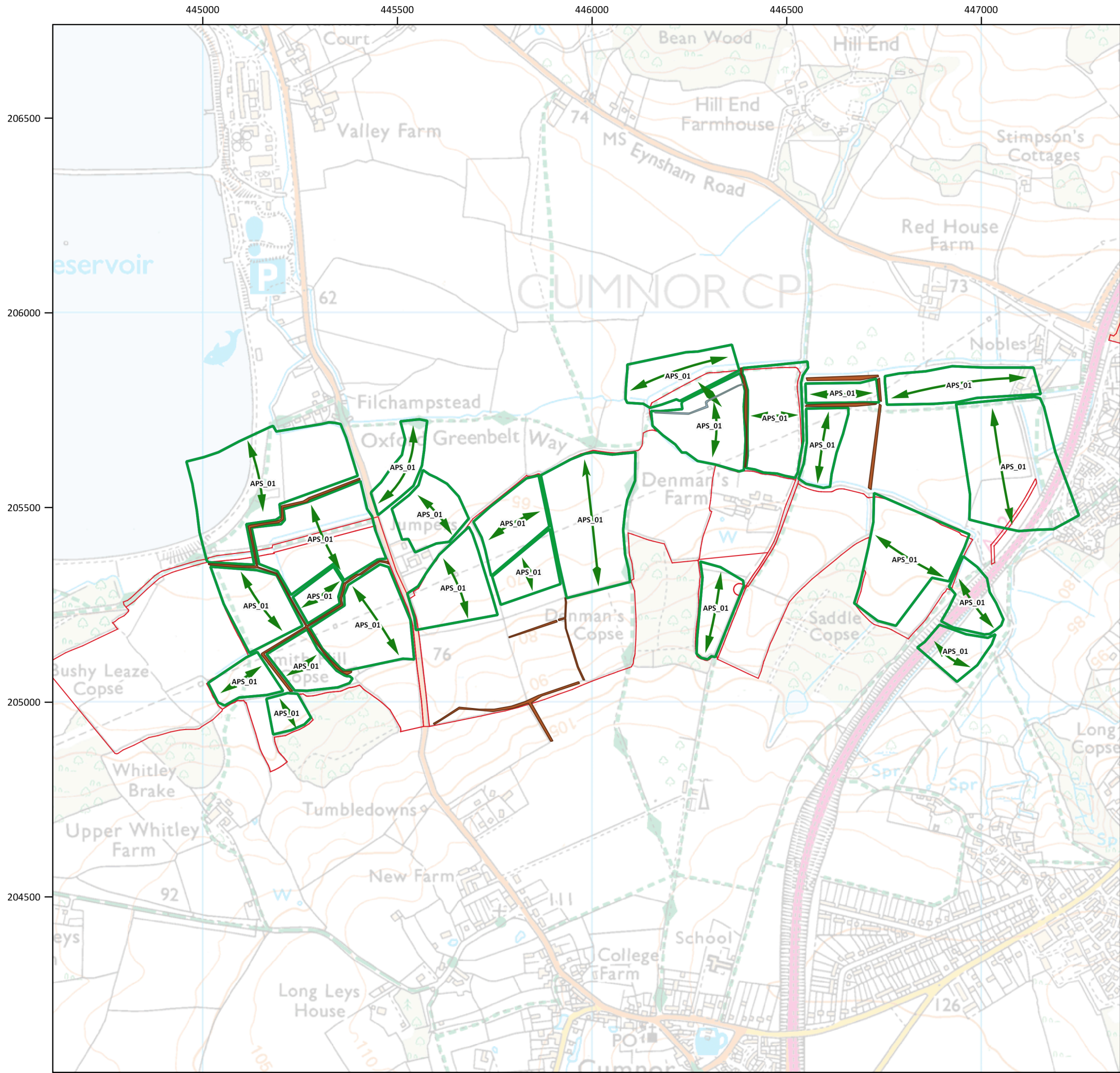
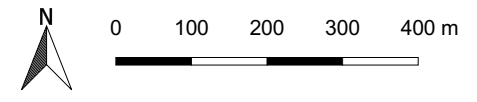
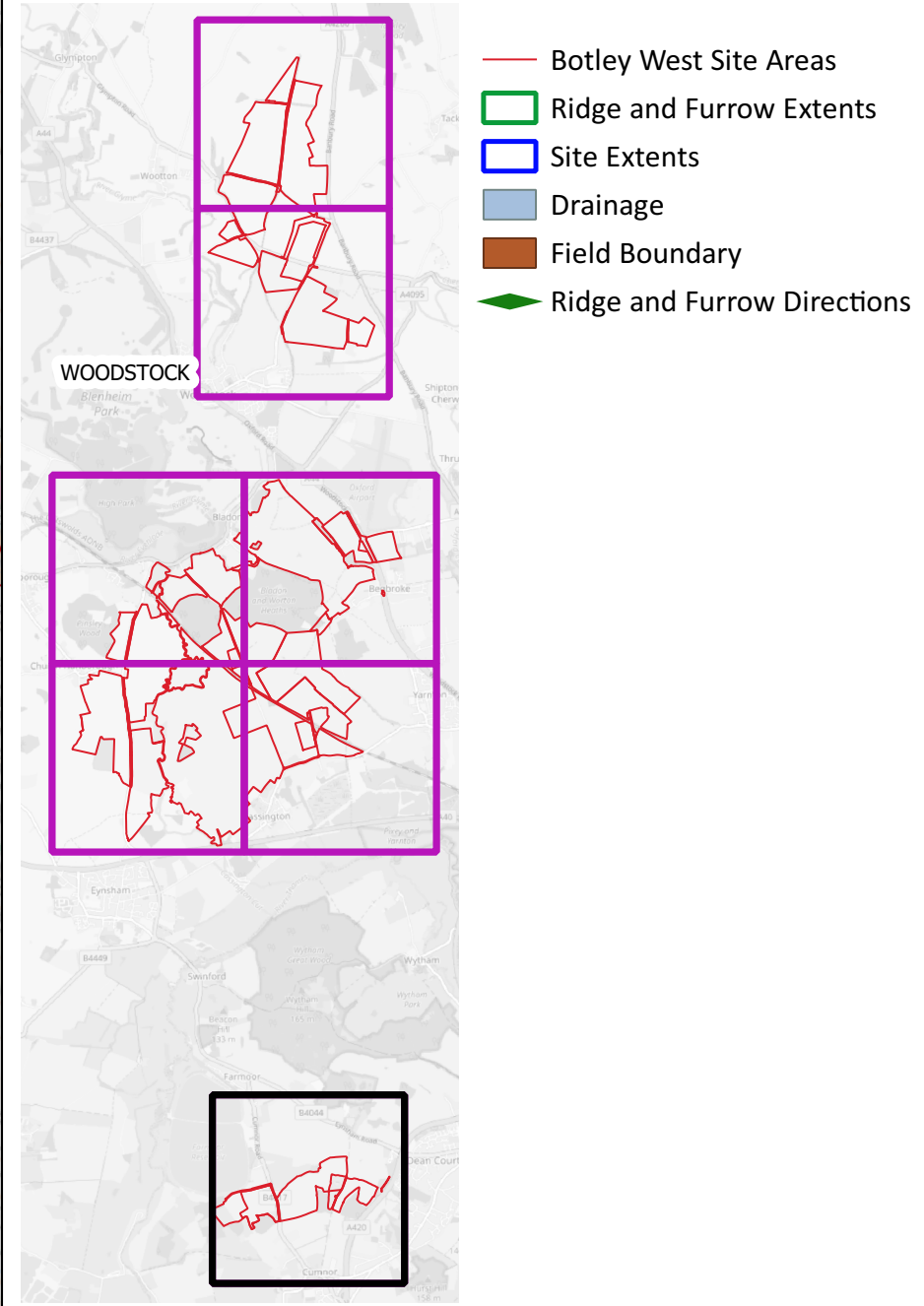


Figure 09: Mapbook Page 1



Botley West  
Assessment of Aerial Imagery

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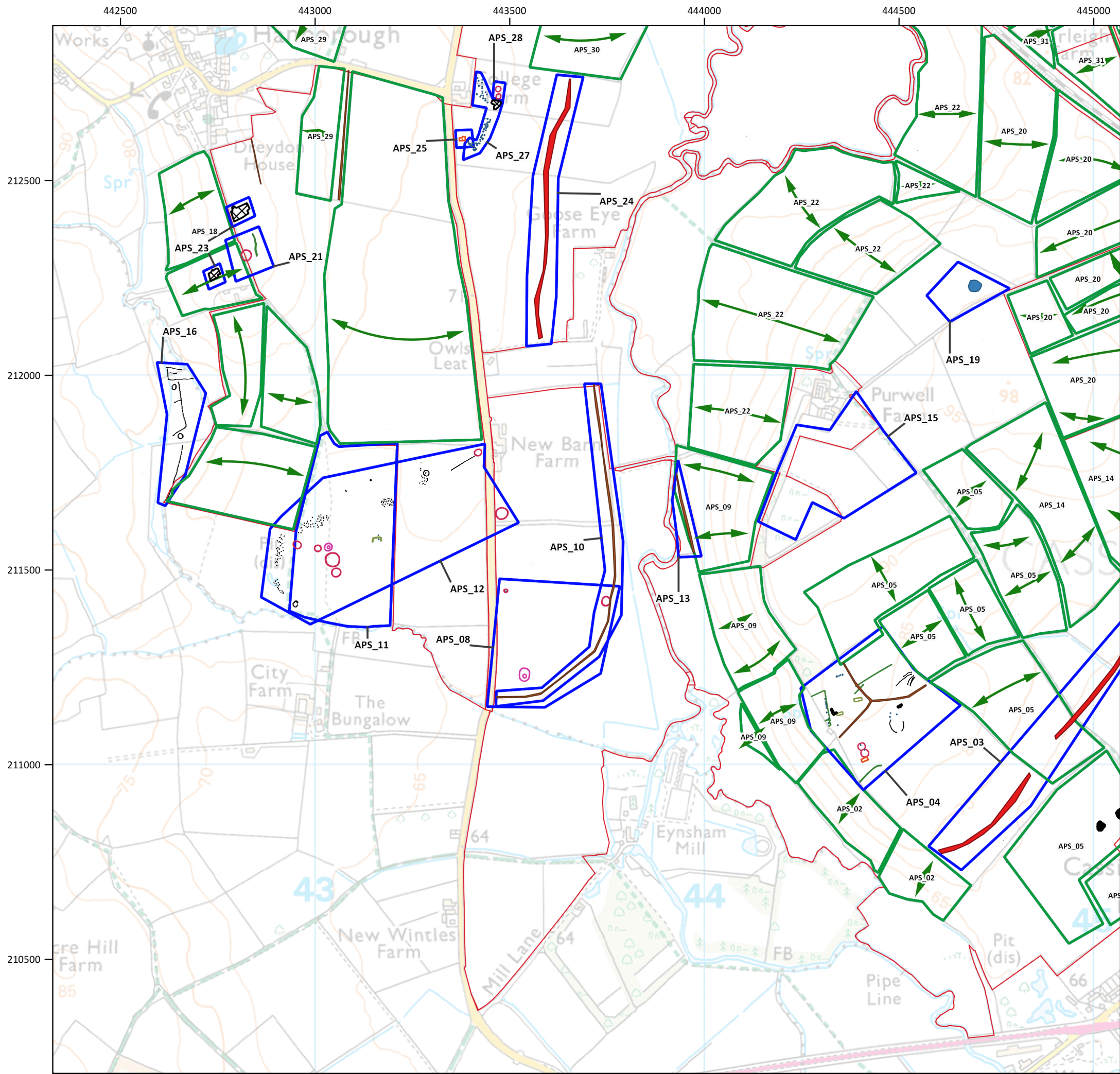
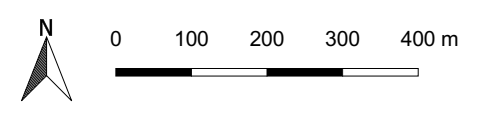
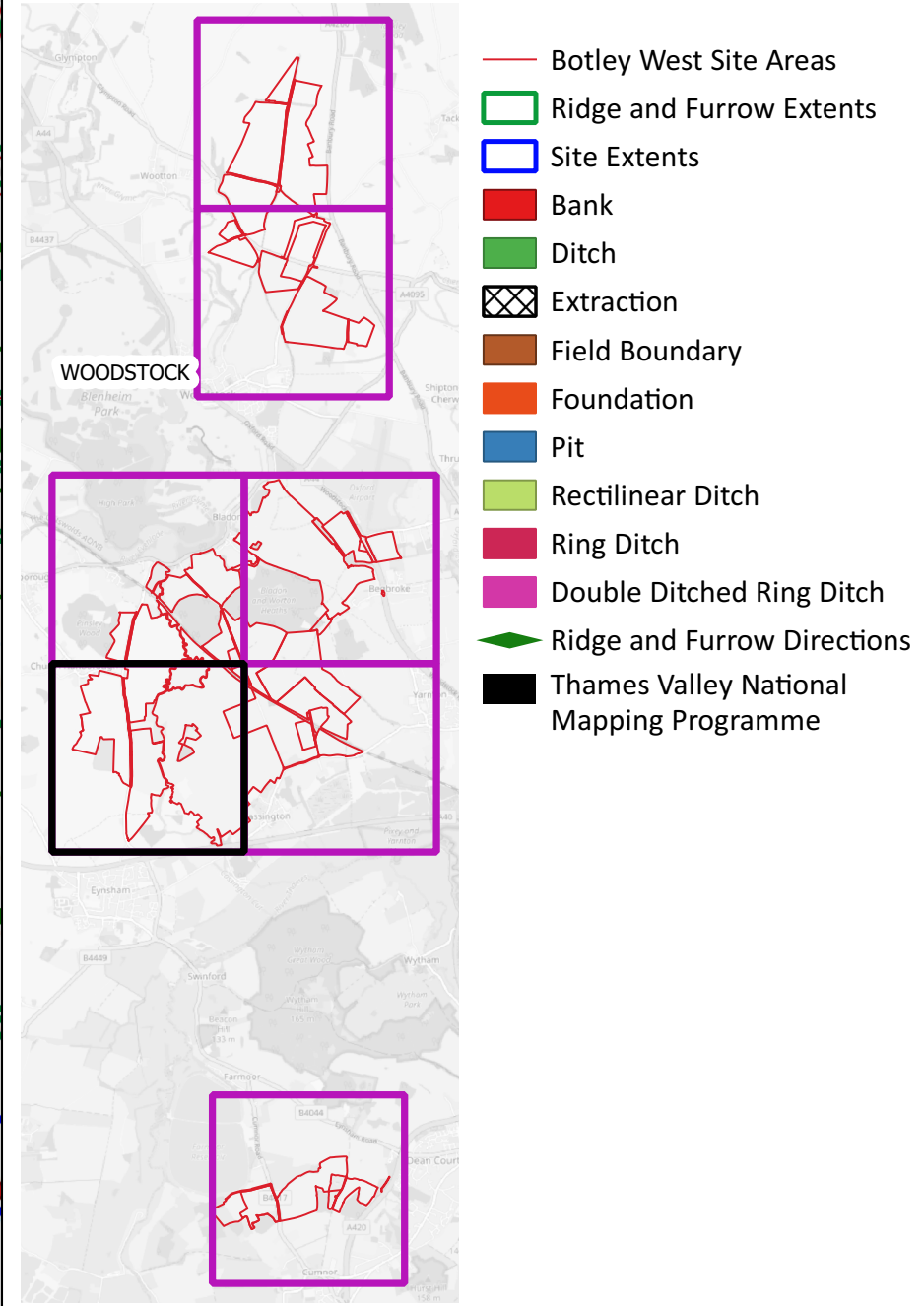


Figure 09: Mapbook Page 2



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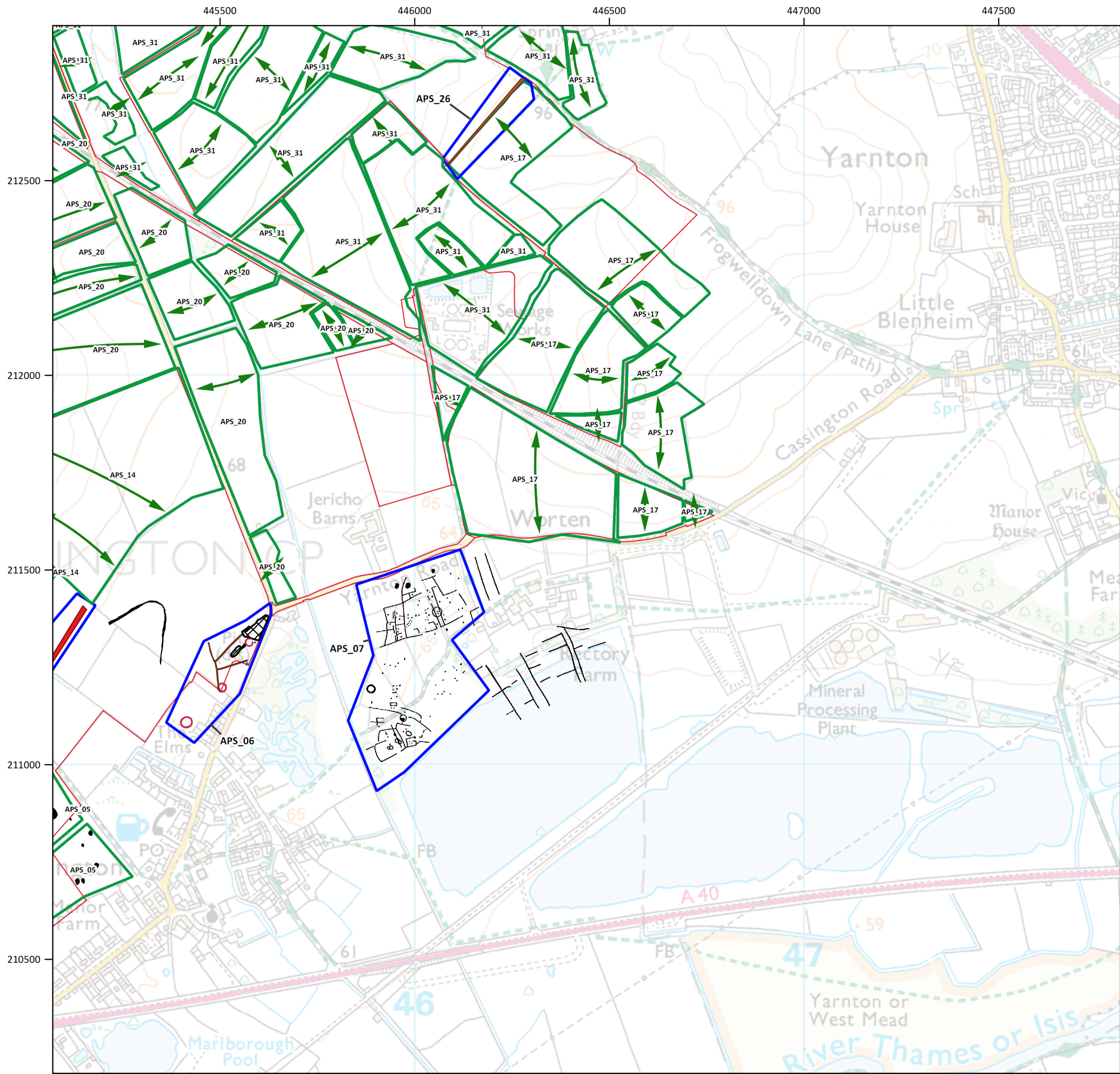
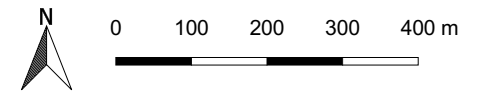
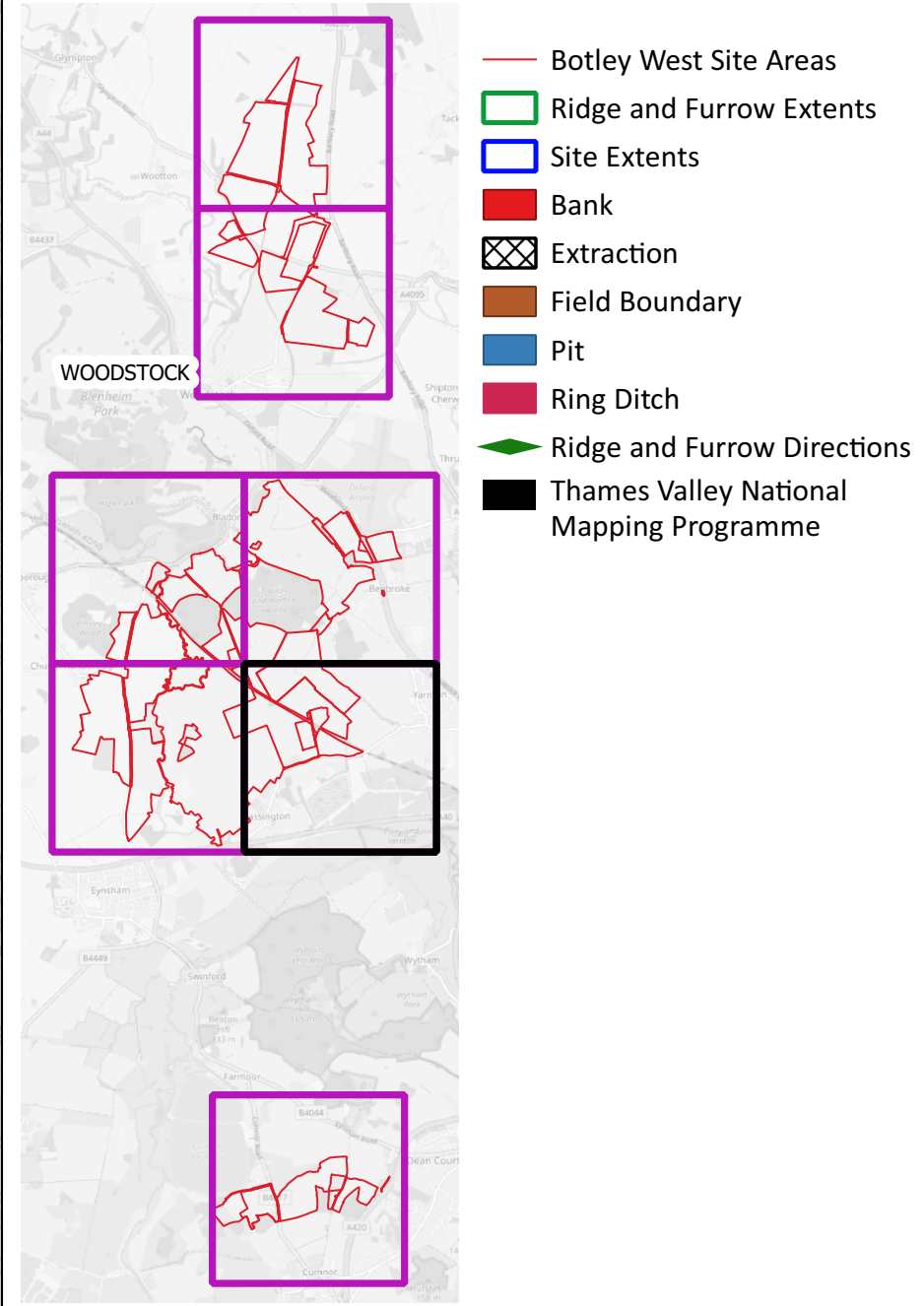


Figure 09: Mapbook Page 3



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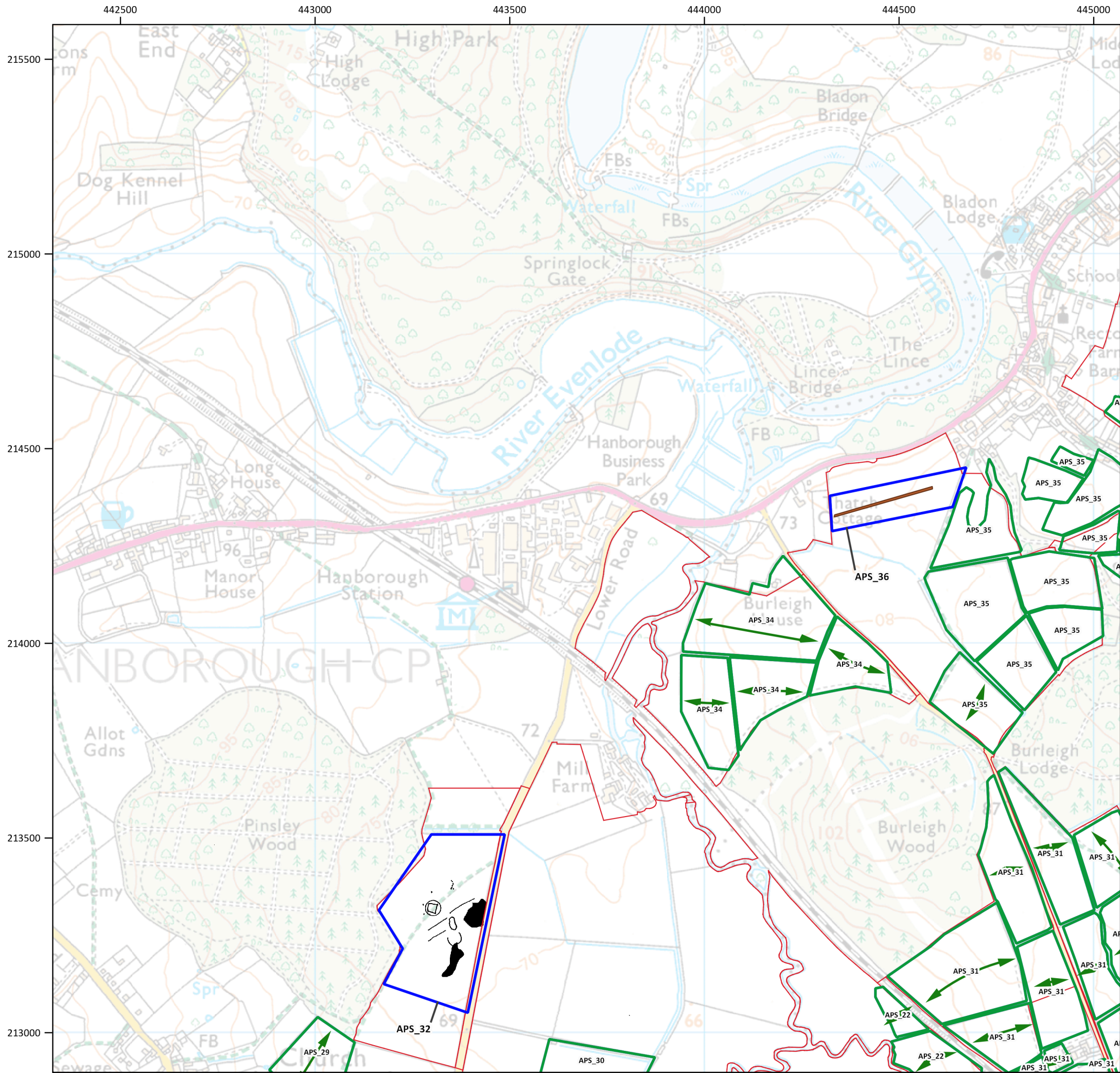
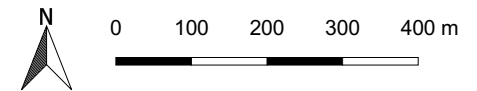


Figure 09: Mapbook Page 4



- Botley West Site Areas
- Ridge and Furrow Extents
- Site Extents
- Field Boundary
- Ridge and Furrow Directions
- Thames Valley National Mapping Programme



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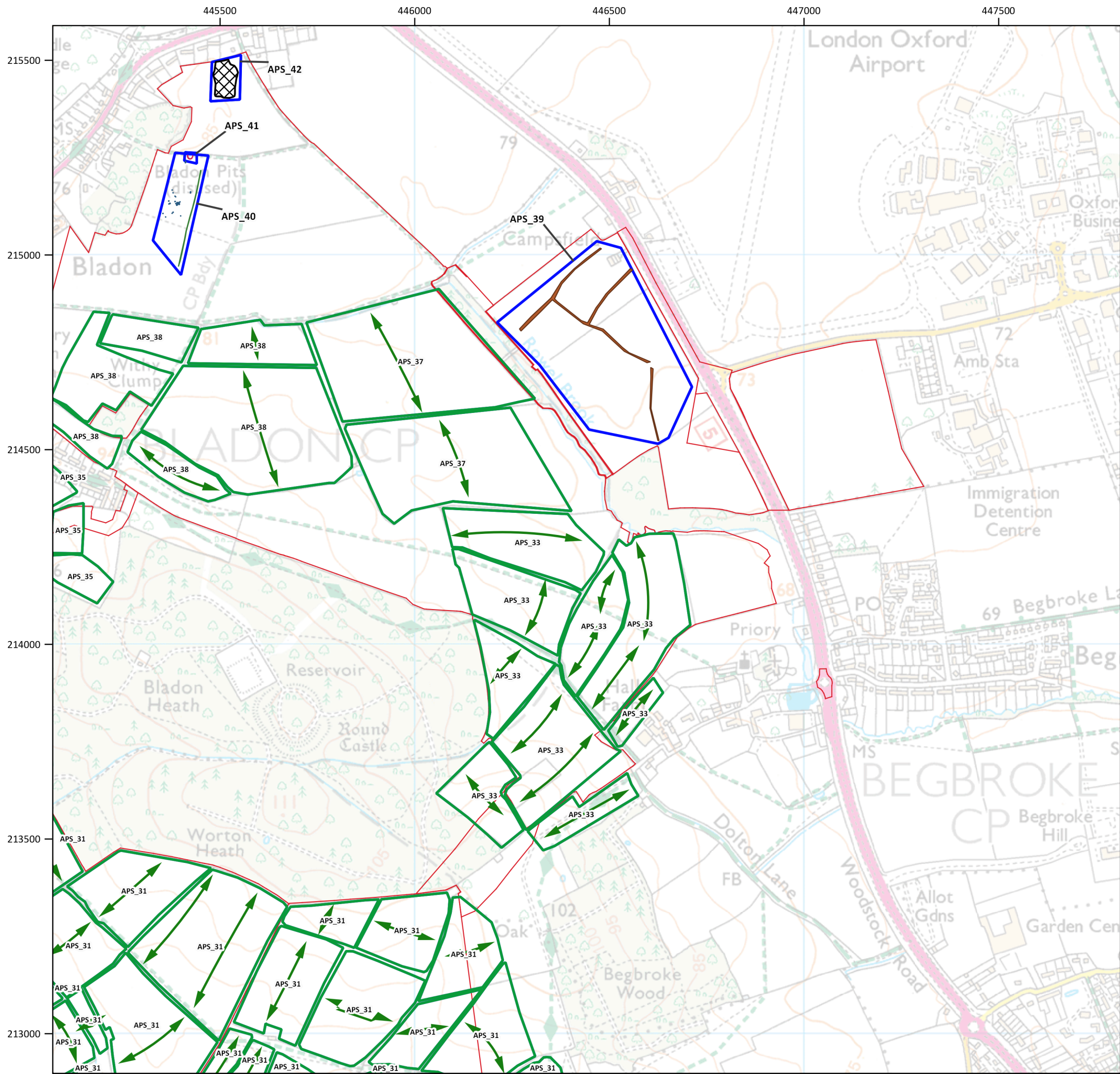
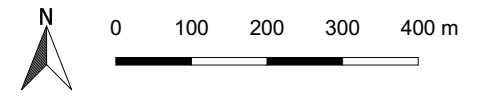
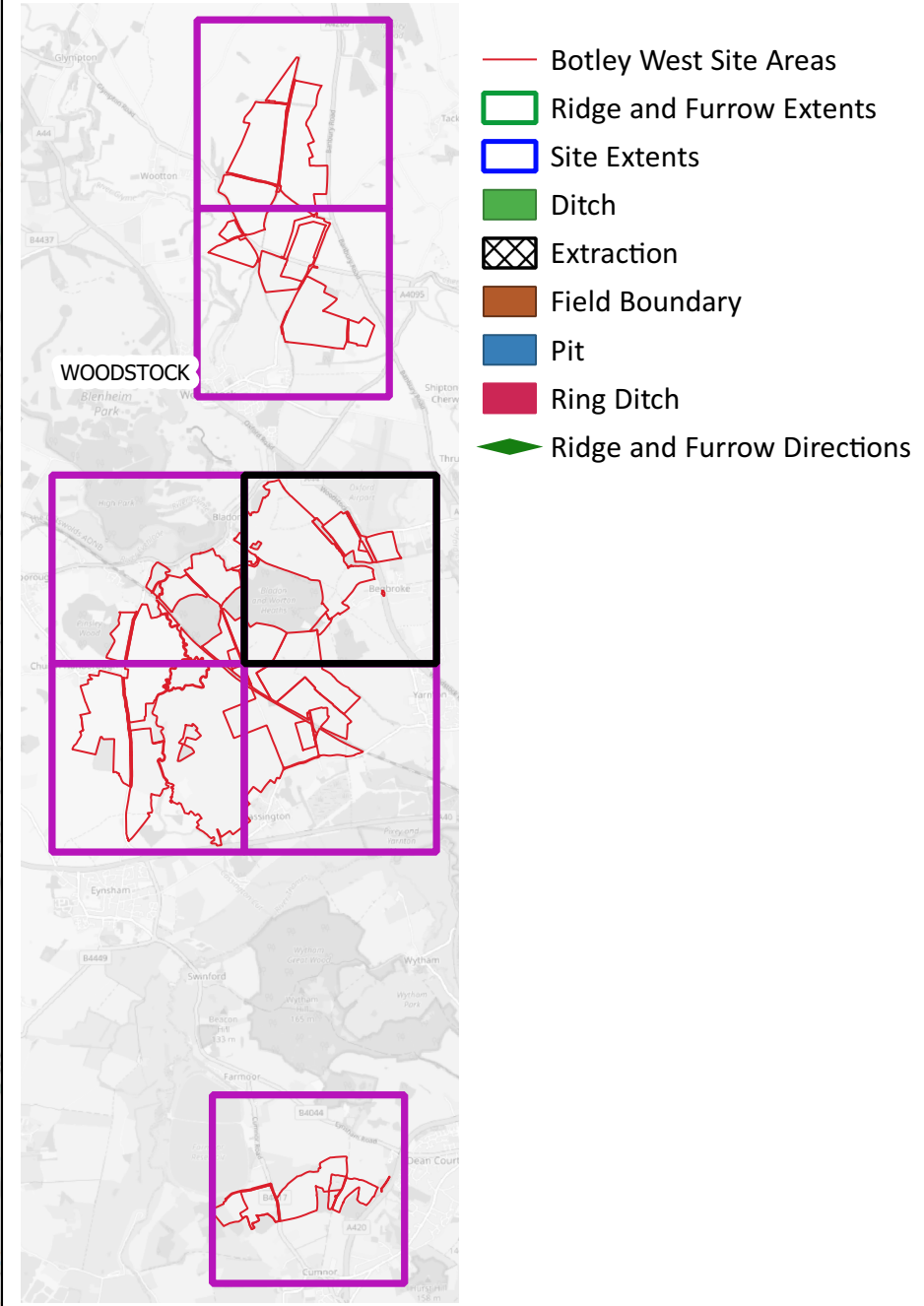


Figure 09: Mapbook Page 5



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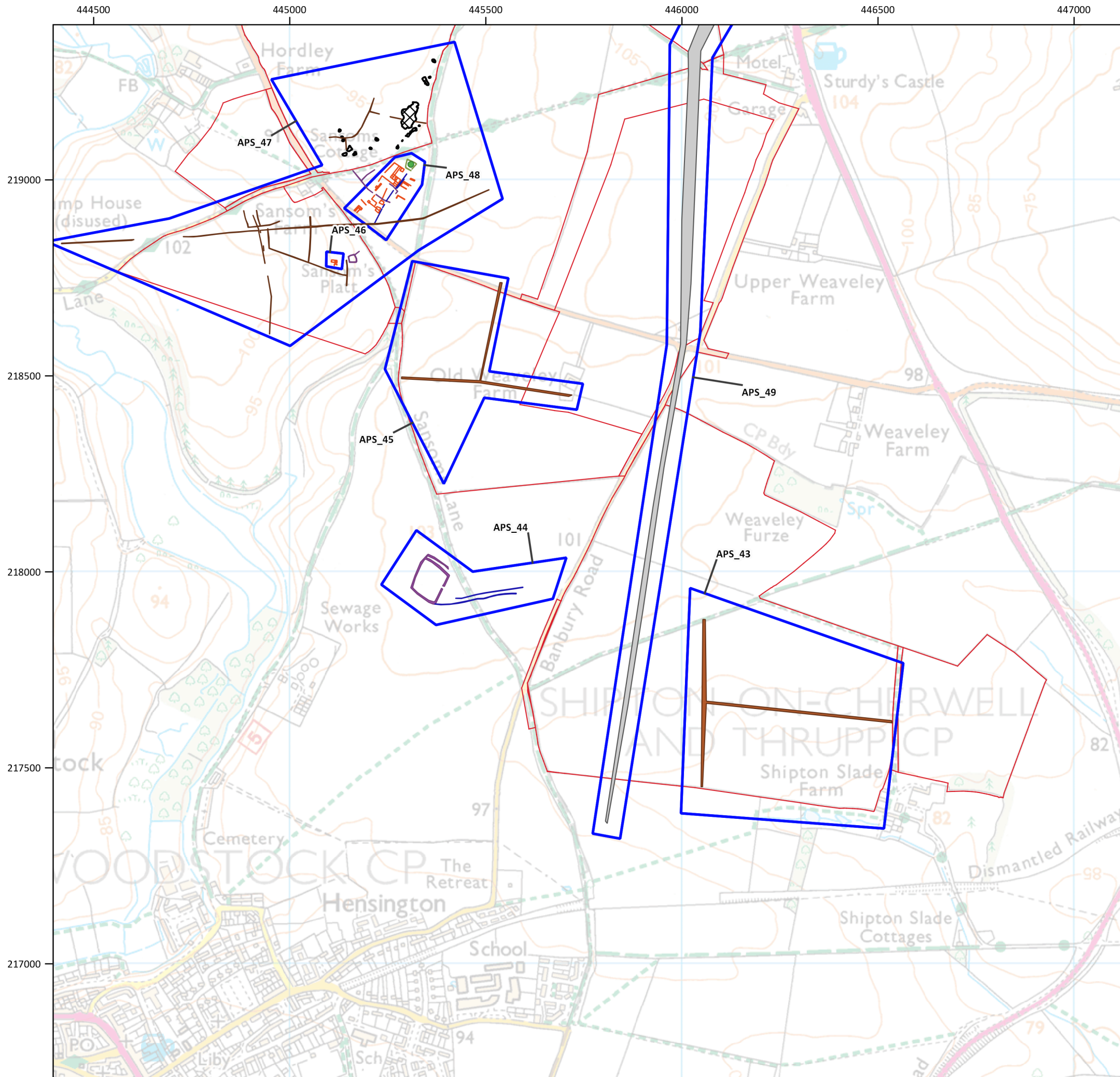
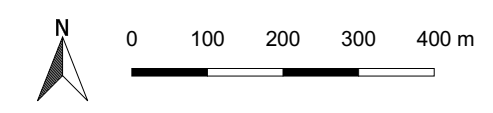
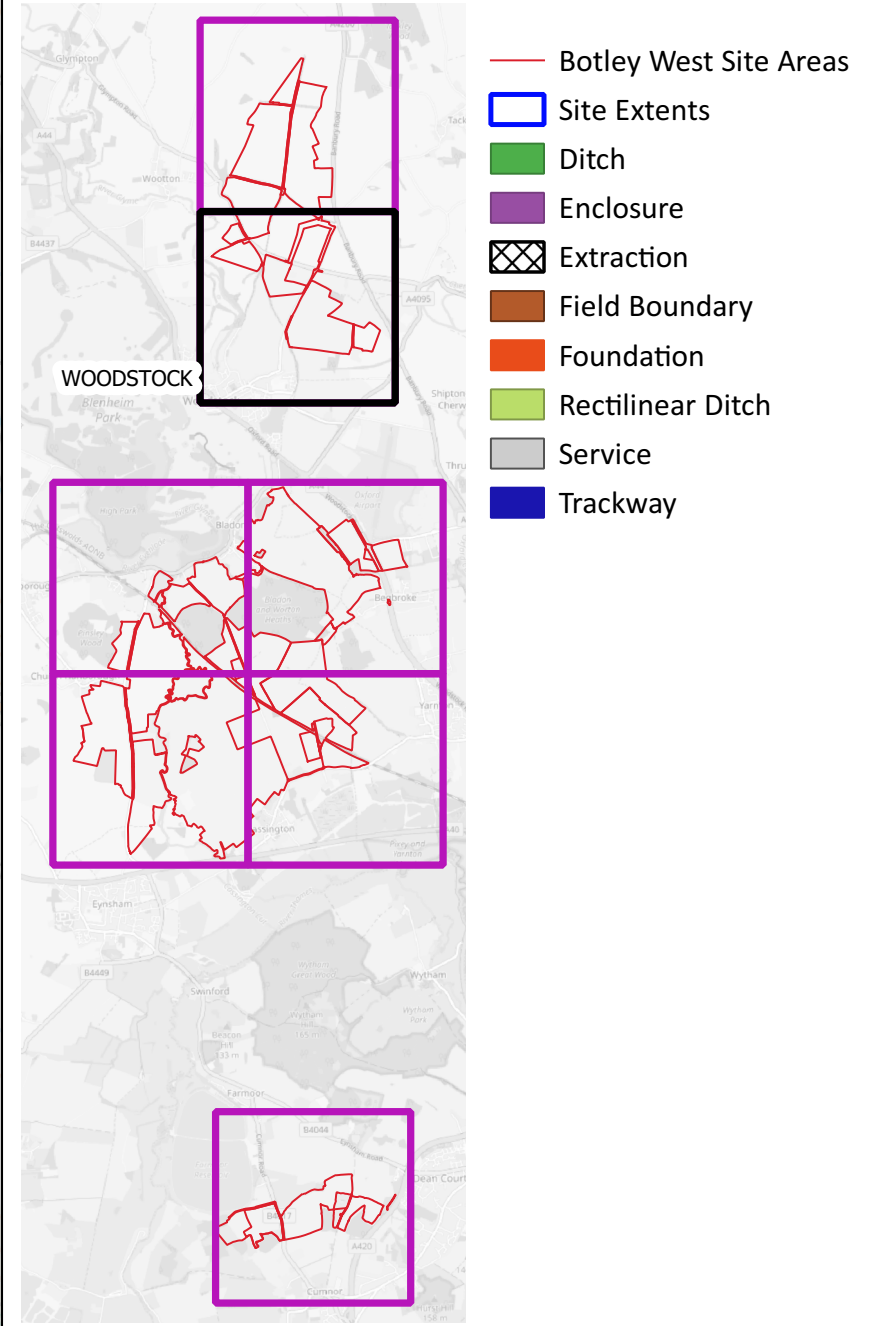


Figure 09: Mapbook Page 6



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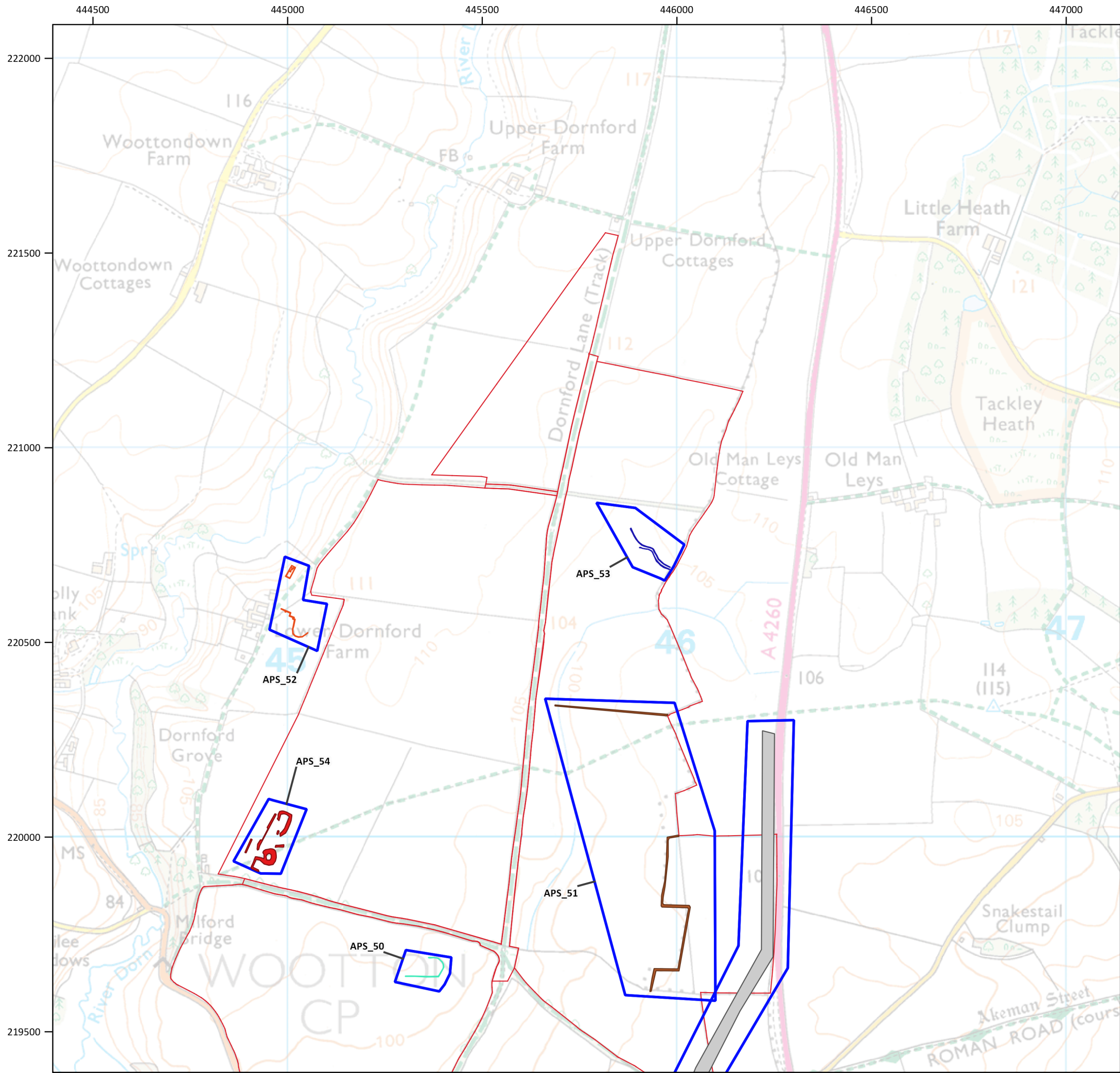
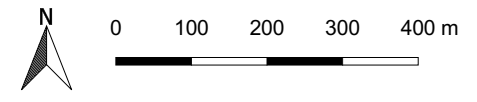
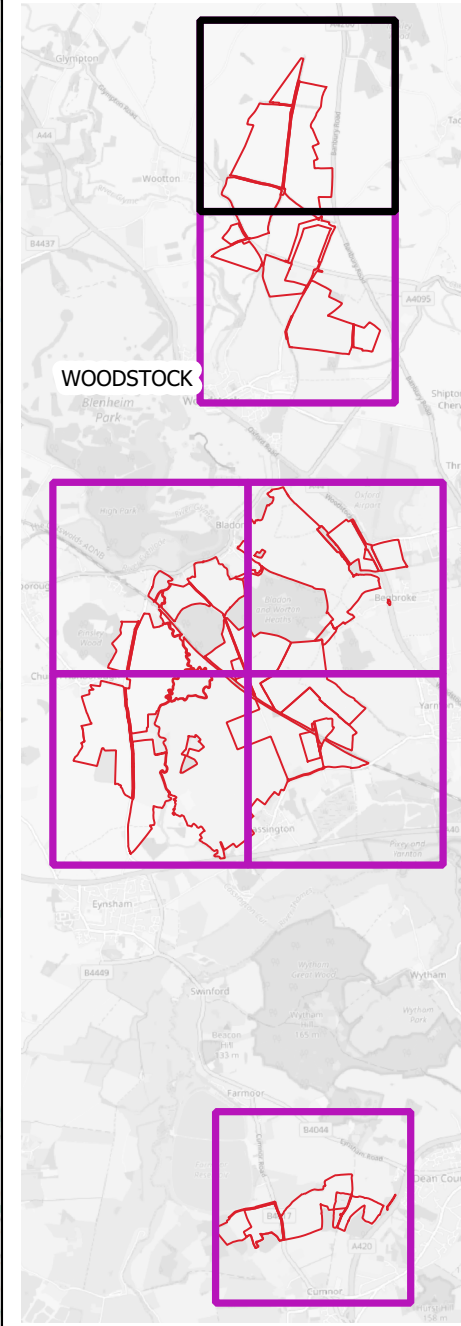


Figure 09: Mapbook Page 7



Botley West  
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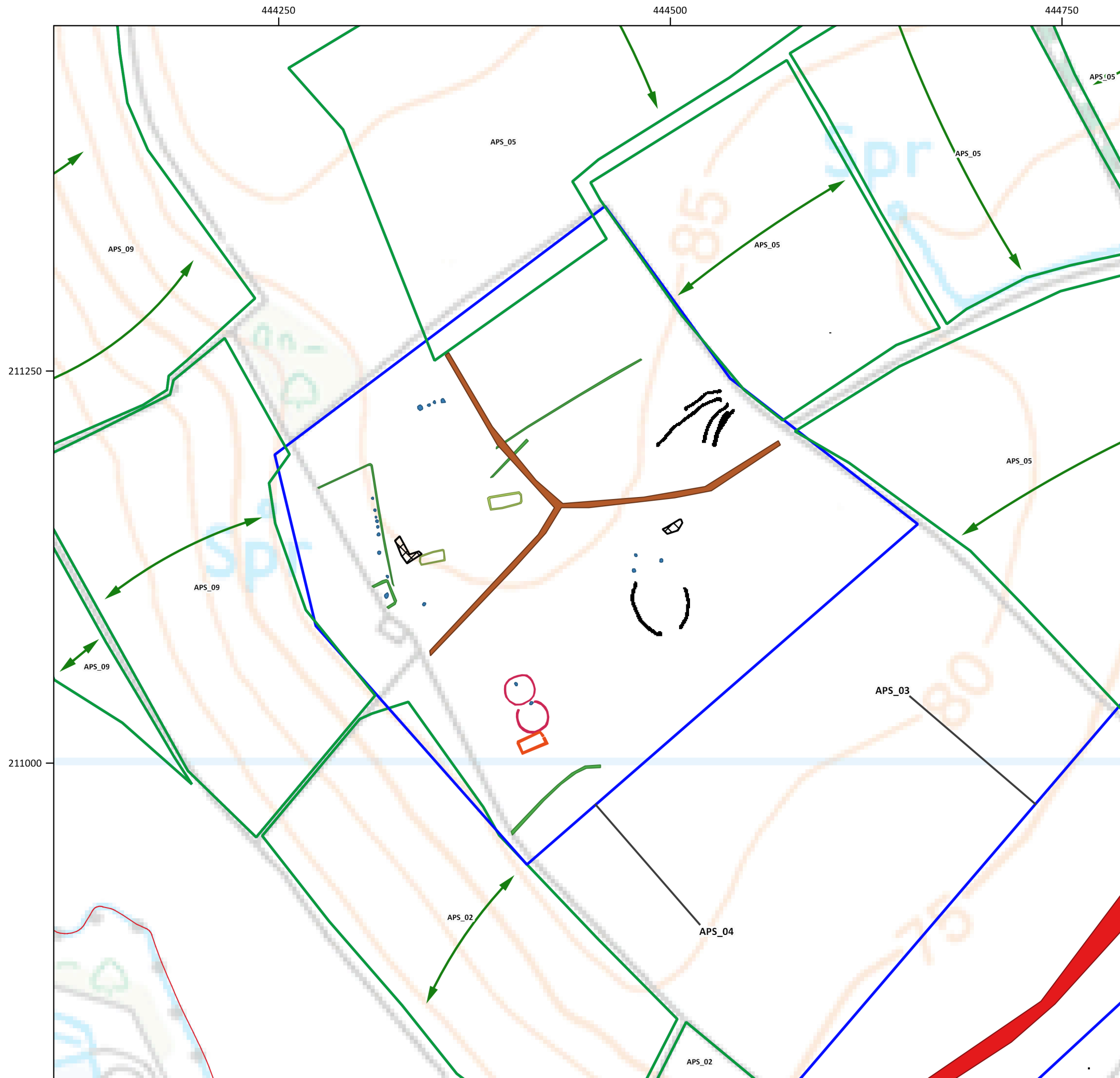
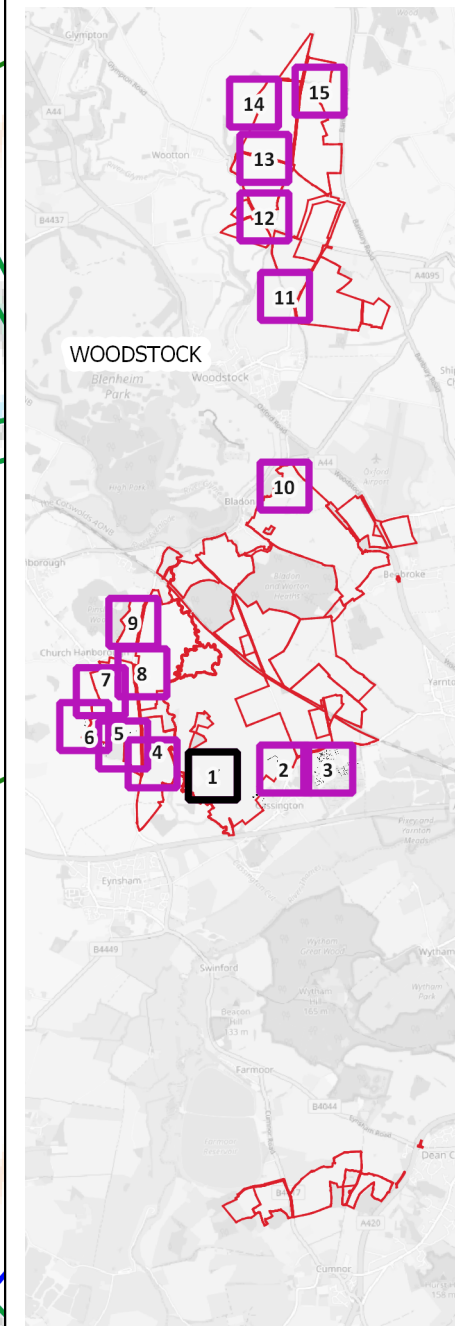
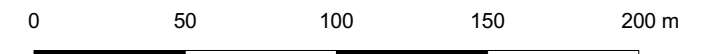


Figure 10: Detail of Sites Page 1



- Botley West Site Areas
- ▭ Ridge and Furrow Extents
- ▭ Site Extents
- ▭ Bank
- ▭ Ditch
- Extraction
- ▭ Field Boundary
- ▭ Foundation
- ▭ Pit
- ▭ Rectilinear Ditch
- ▭ Ring Ditch
- ▶ Ridge and Furrow Directions
- ▭ Thames Valley National Mapping Programme



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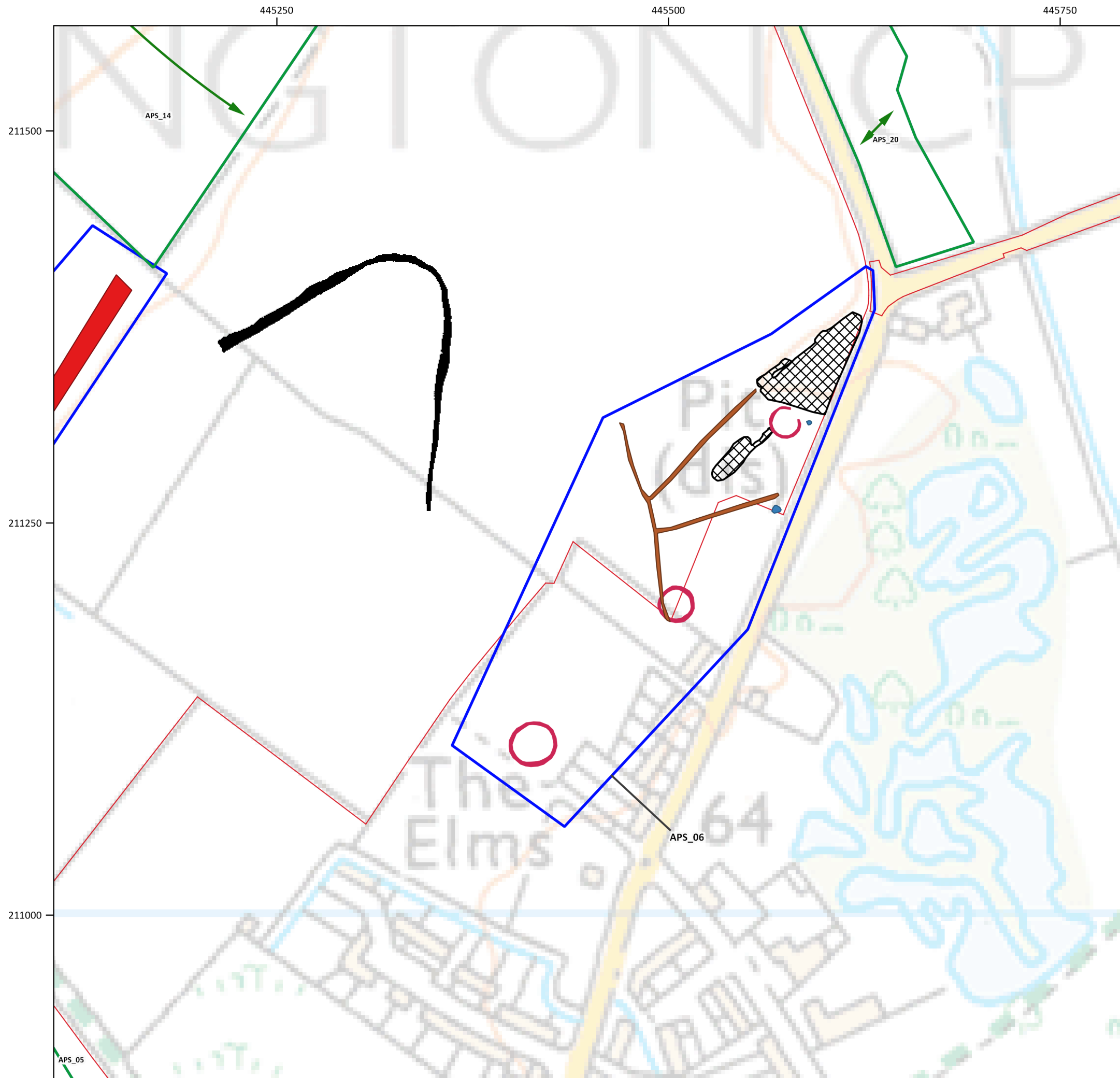
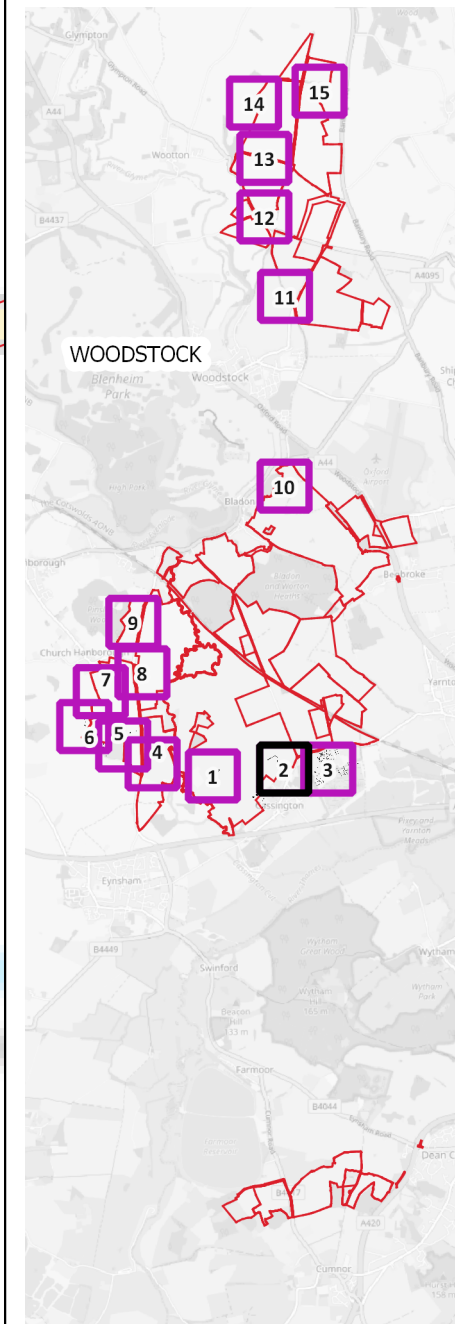
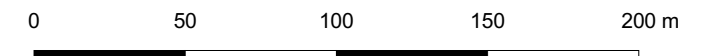


Figure 10: Detail of Sites Page 2



- Botley West Site Areas
- Ridge and Furrow Extents
- Site Extents
- █ Bank
- Extraction
- Field Boundary
- █ Pit
- Ring Ditch
- Ridge and Furrow Directions
- █ Thames Valley National Mapping Programme



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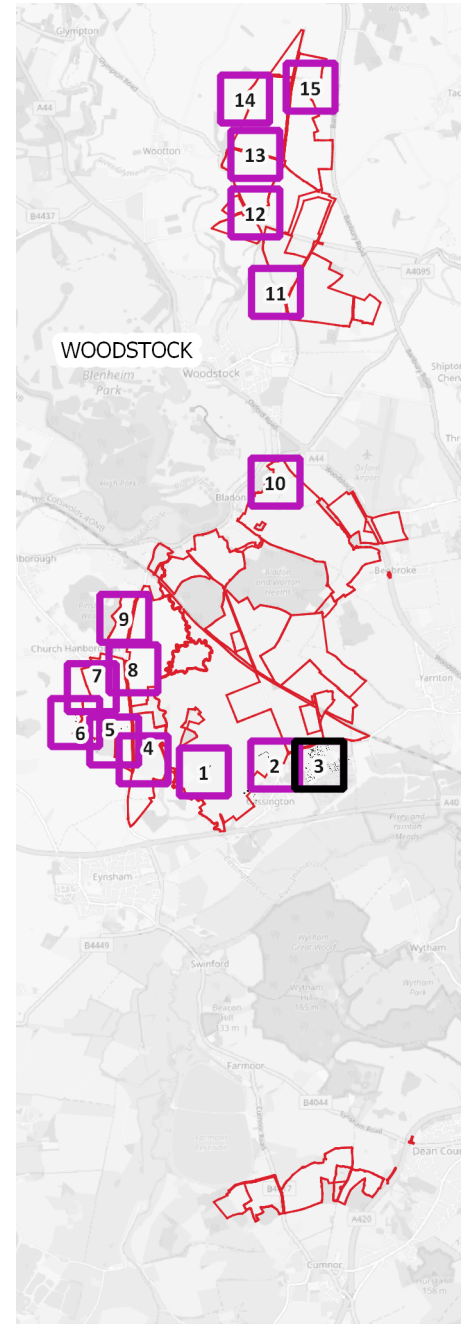


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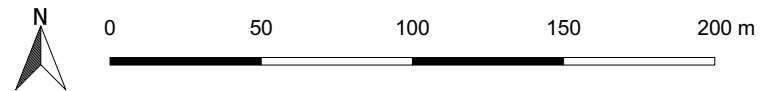
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Figure 10: Detail of Sites Page 3



- Botley West Site Areas
- Site Extents
- Thames Valley National Mapping Programme



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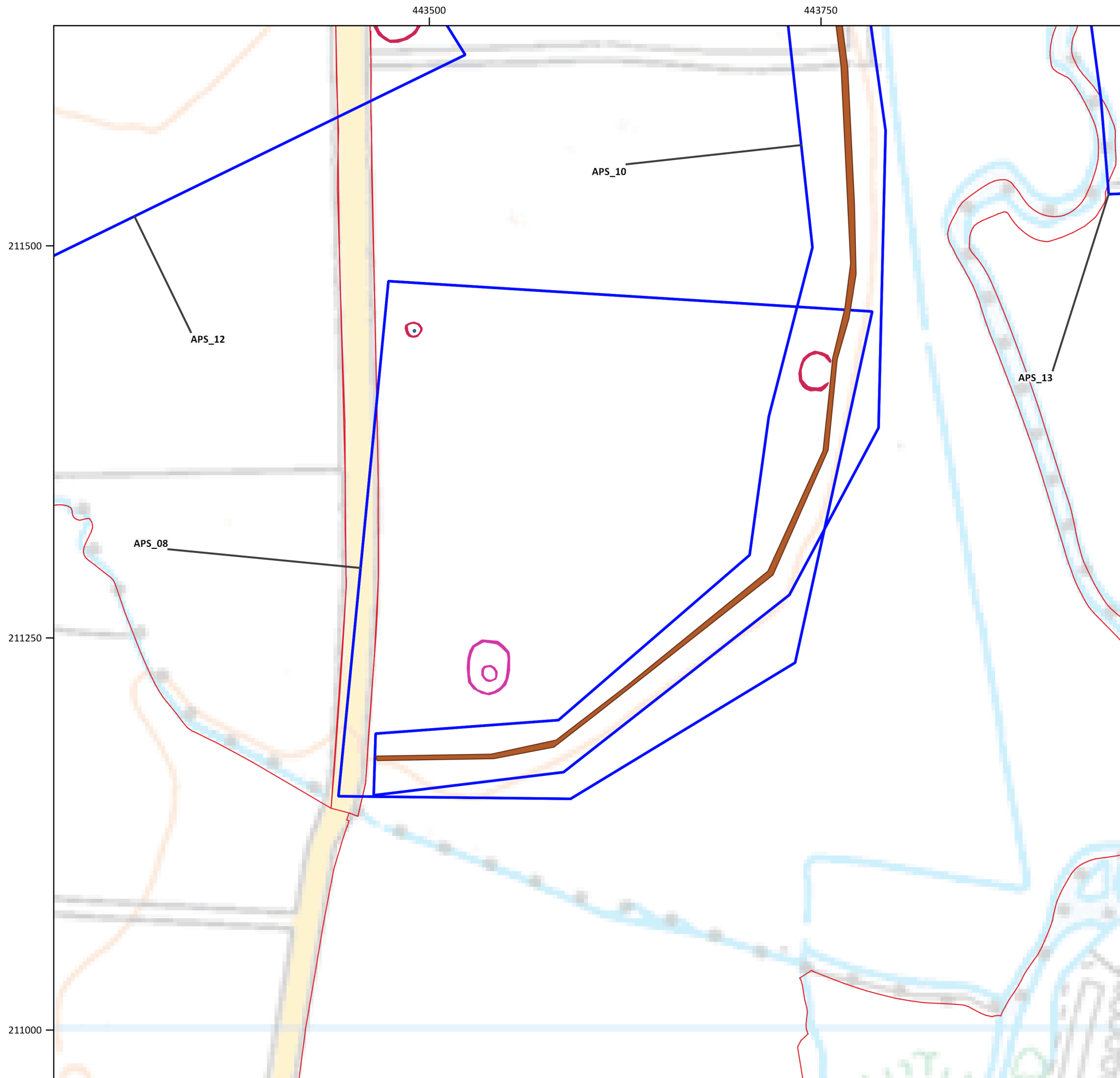
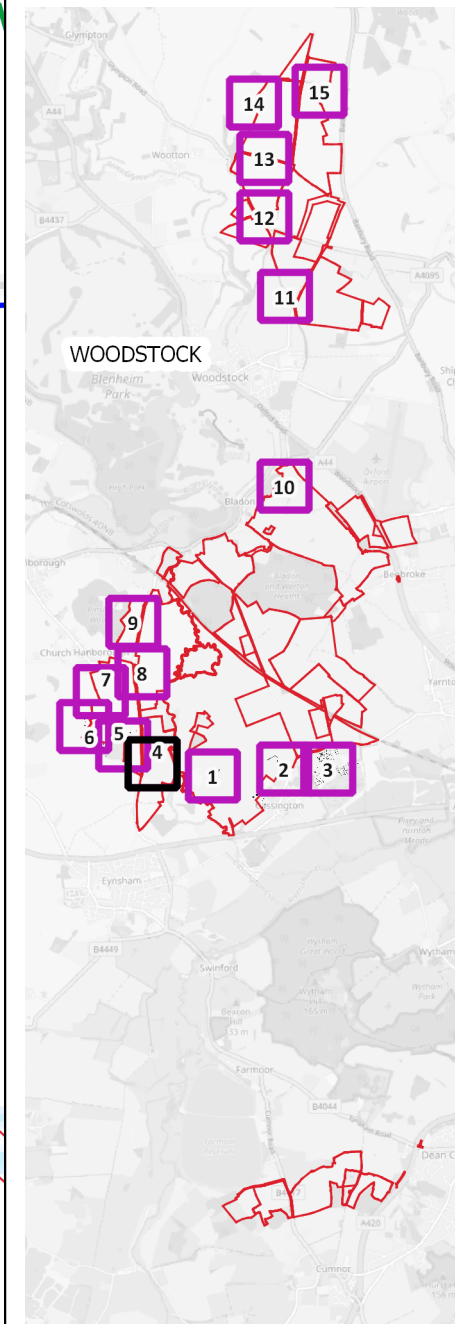
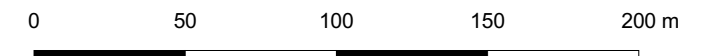


Figure 10: Detail of Sites Page 4



- Botley West Site Areas
- Ridge and Furrow Extents
- Site Extents
- Field Boundary
- Pit
- Ring Ditch
- Double Ditched Ring Ditch



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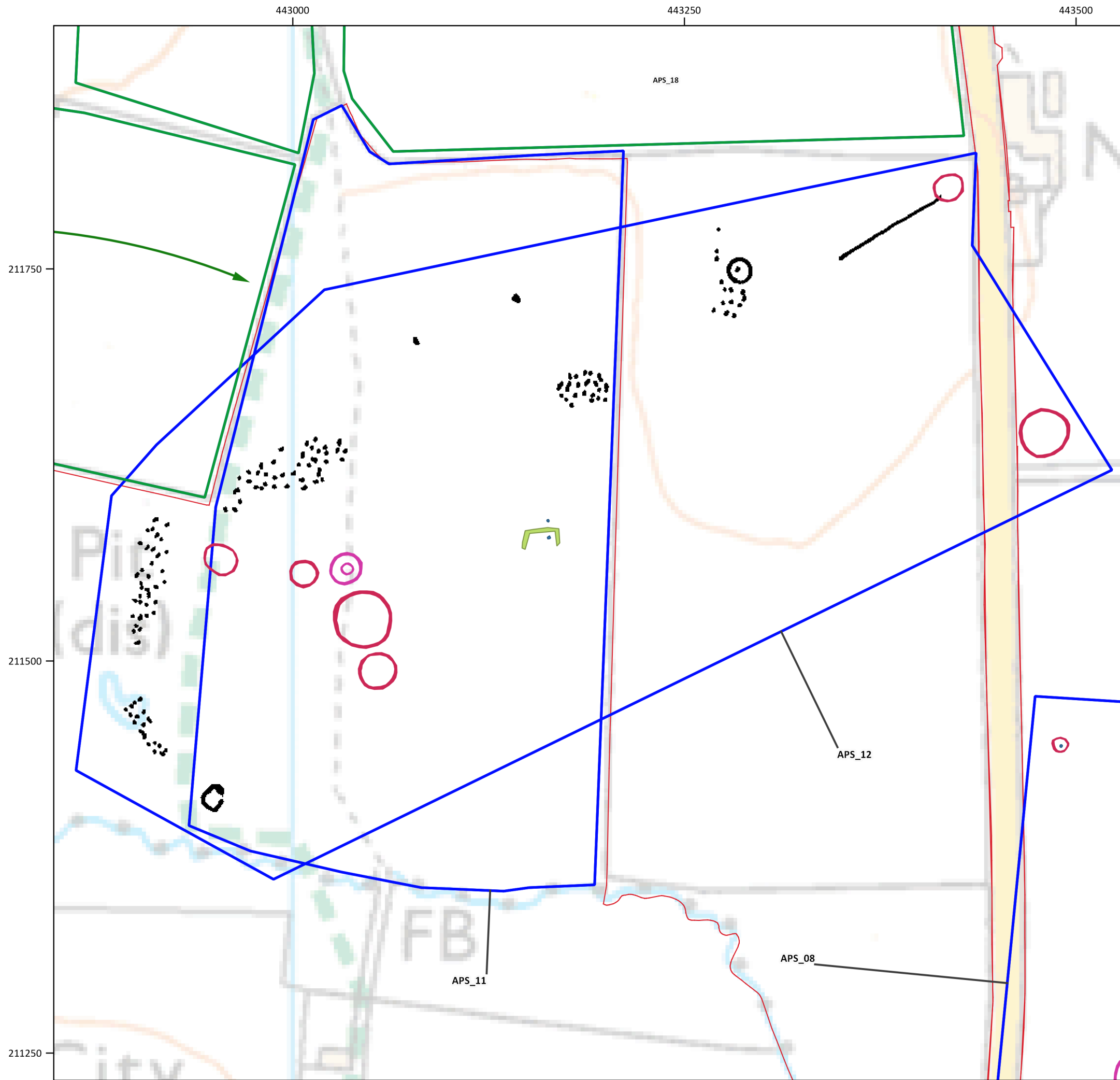
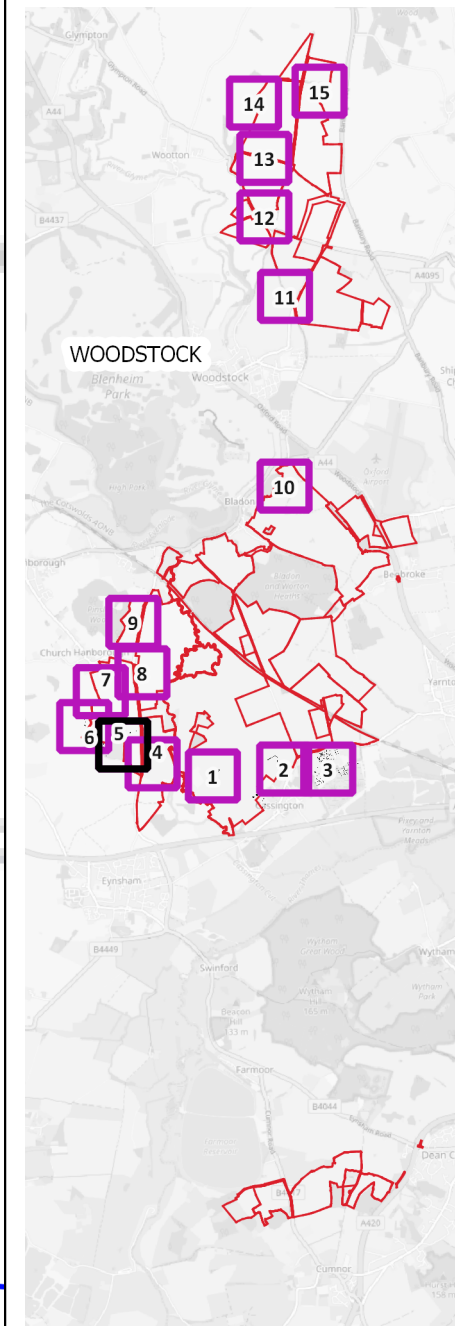
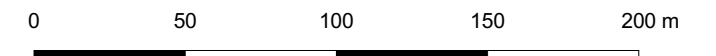


Figure 10: Detail of Sites Page 5



- Botley West Site Areas
- ▭ Ridge and Furrow Extents
- ▭ Site Extents
- Pit
- ▭ Rectilinear Ditch
- Ring Ditch
- Double Ditched Ring Ditch
- Ridge and Furrow Directions
- Thames Valley National Mapping Programme



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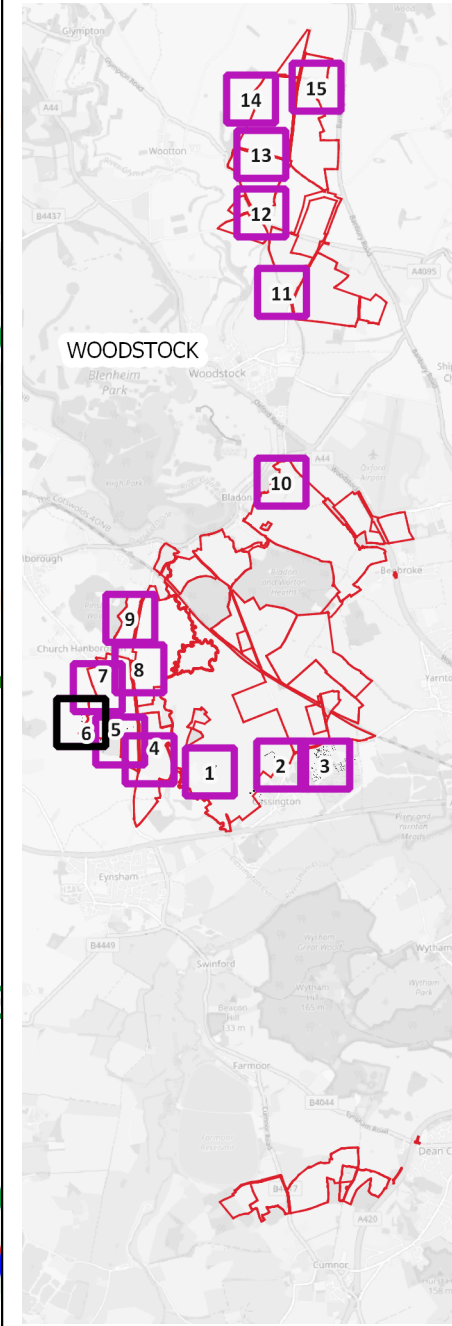
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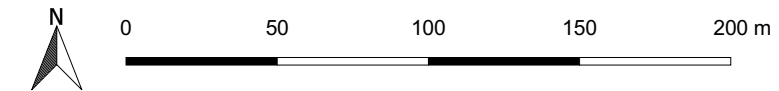
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Figure 10: Detail of Sites Page 6



- Botley West Site Areas
- Ridge and Furrow Extents
- Site Extents
- Ring Ditch
- Ridge and Furrow Directions
- Thames Valley National Mapping Programme



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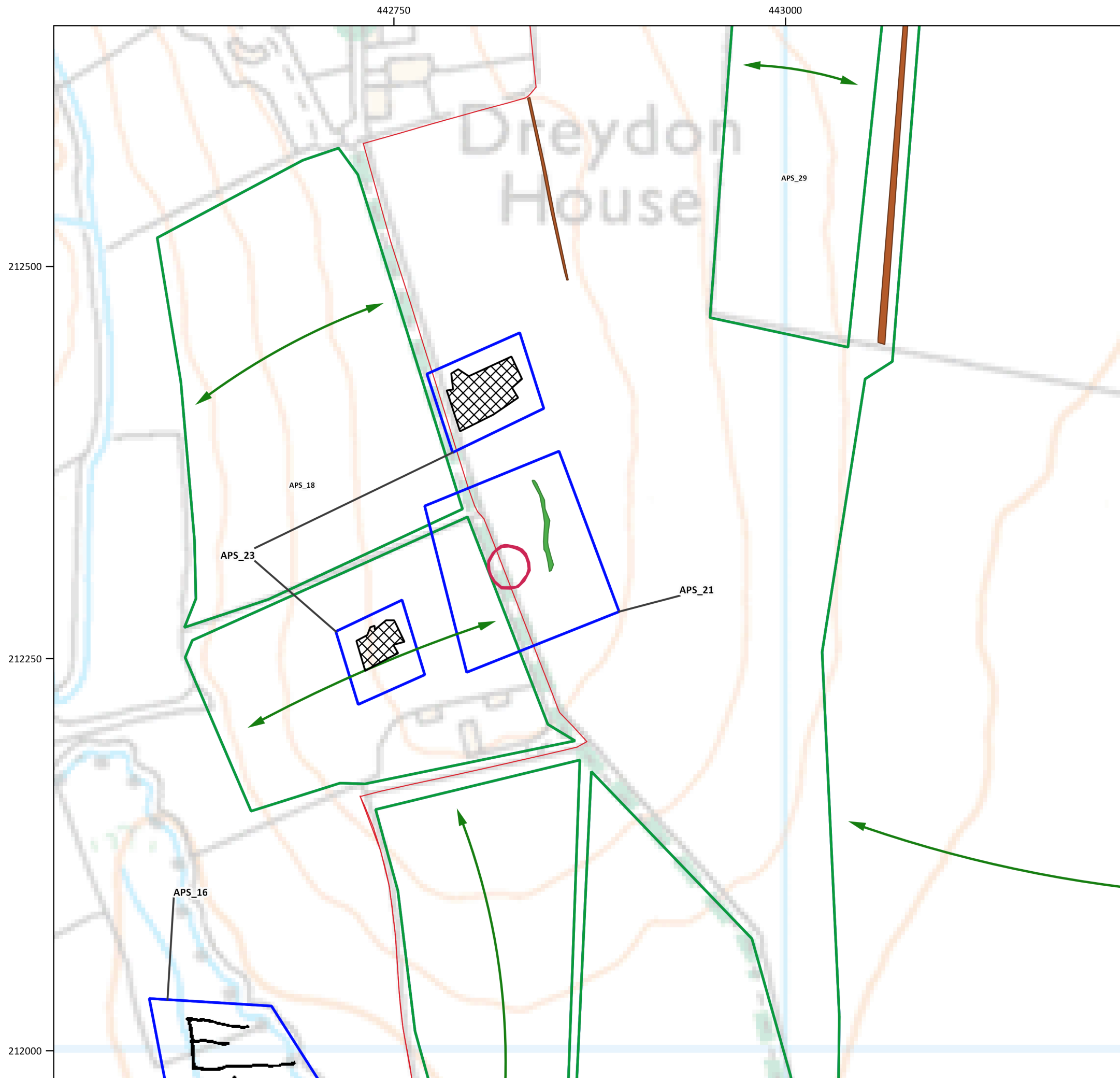
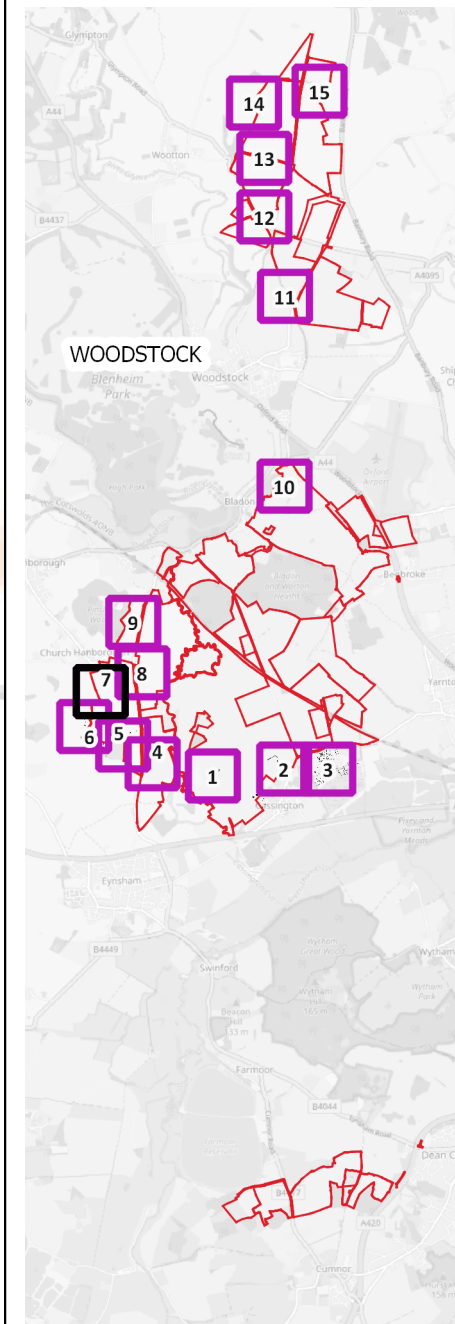
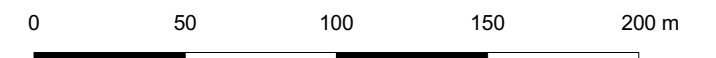


Figure 10: Detail of Sites Page 7



- Botley West Site Areas
- Ridge and Furrow Extents
- Site Extents
- Ditch
- Extraction
- Field Boundary
- Ring Ditch
- Ridge and Furrow Directions



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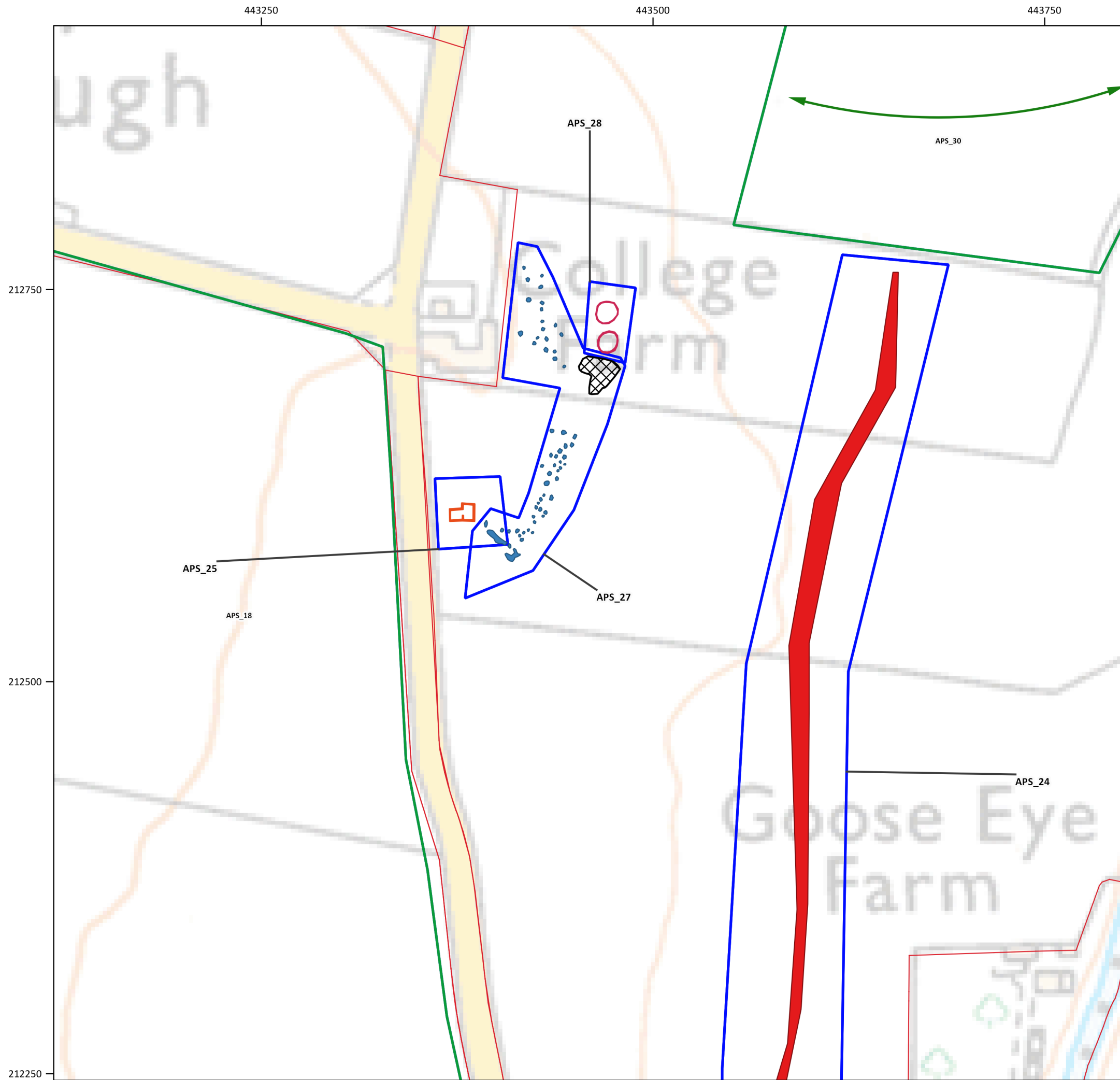
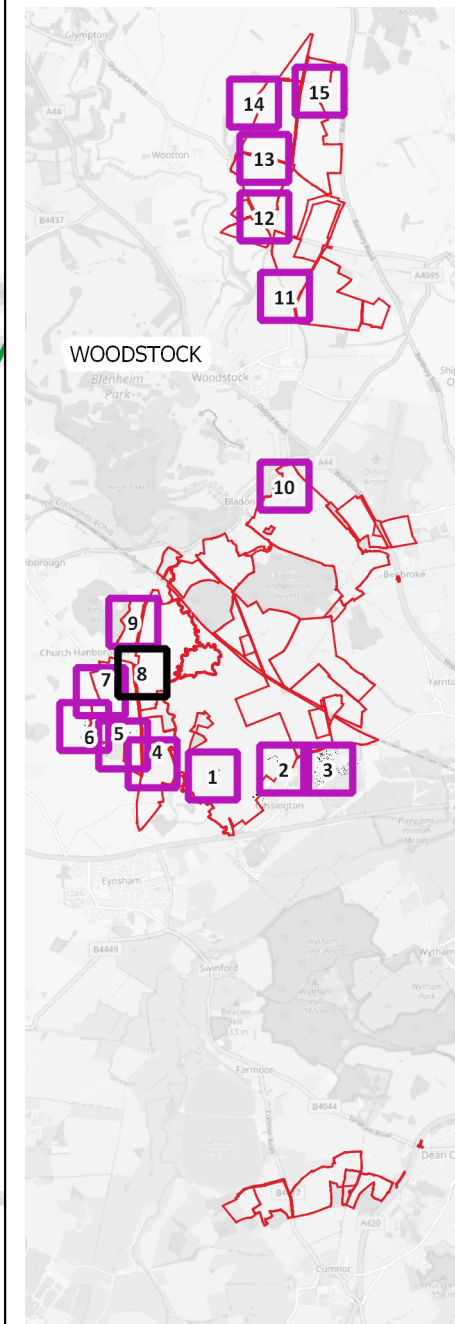
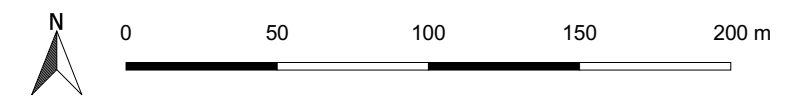


Figure 10: Detail of Sites Page 8



- Botley West Site Areas
- Ridge and Furrow Extents
- Site Extents
- █ Bank
- Extraction
- █ Foundation
- █ Pit
- █ Ring Ditch
- ▶ Ridge and Furrow Directions



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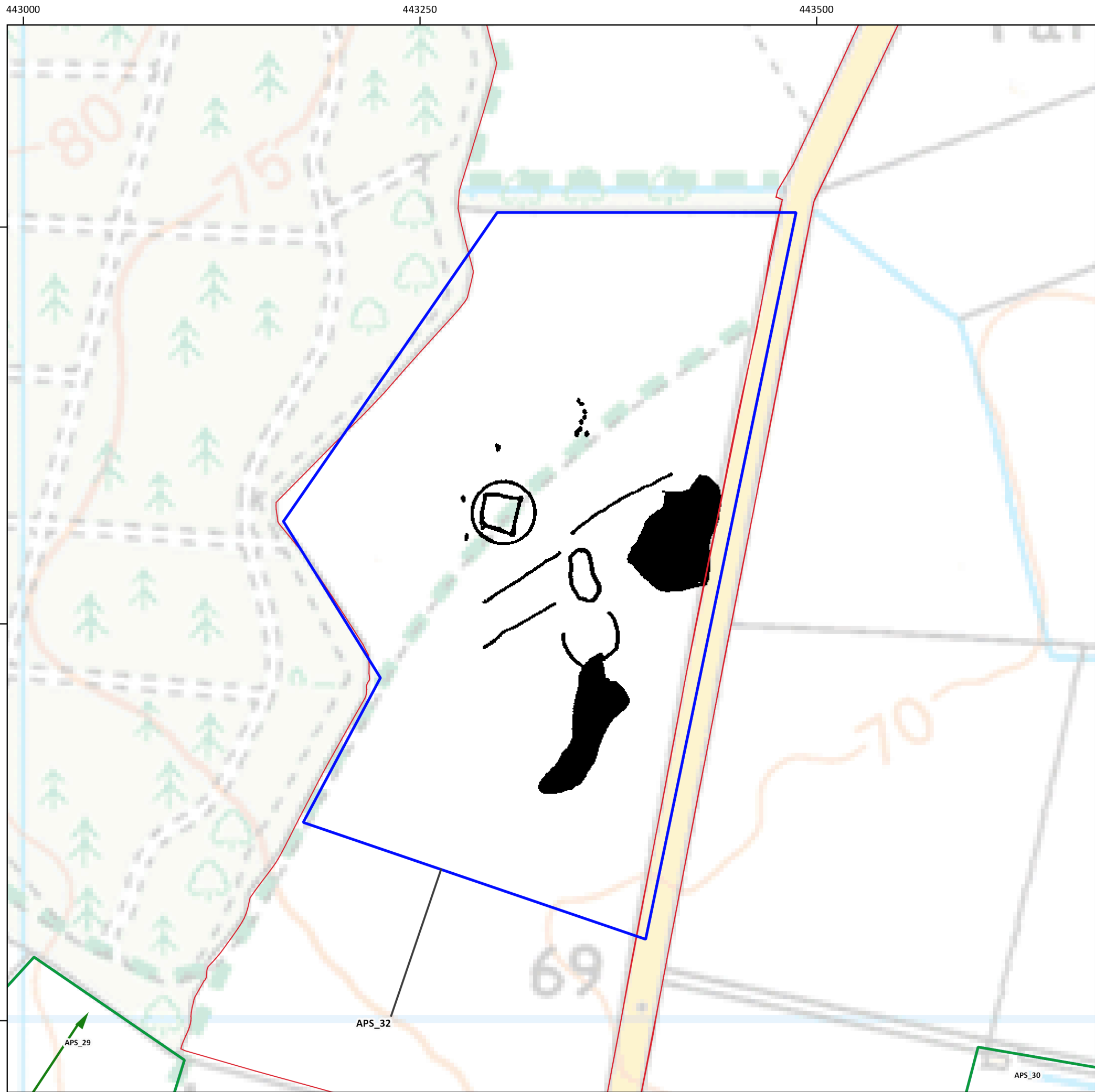
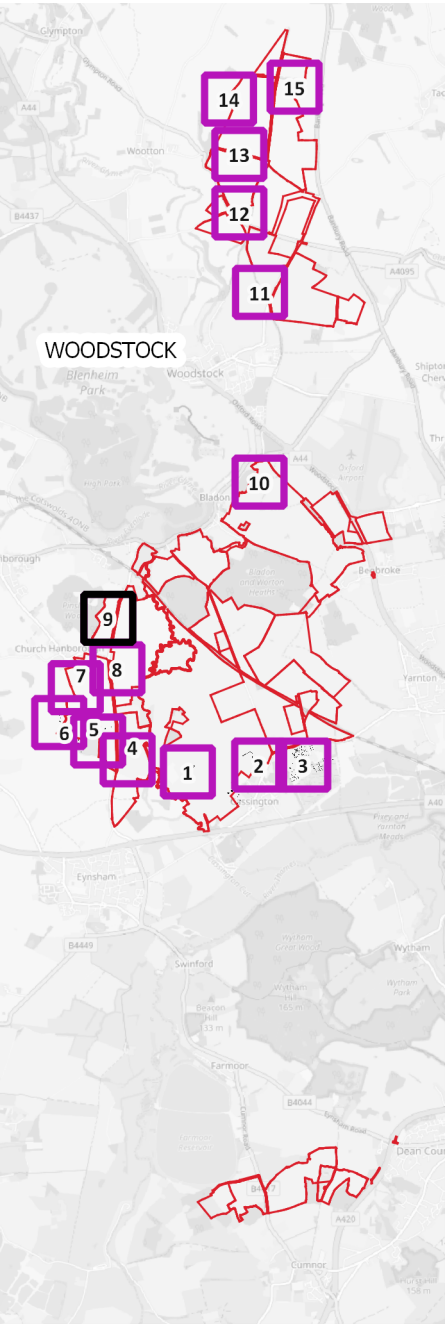
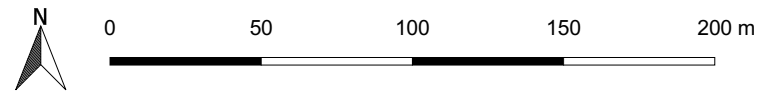


Figure 10: Detail of Sites Page 9



- Botley West Site Areas
- Ridge and Furrow Extents
- Site Extents
- ▶ Ridge and Furrow Directions
- Thames Valley National Mapping Programme



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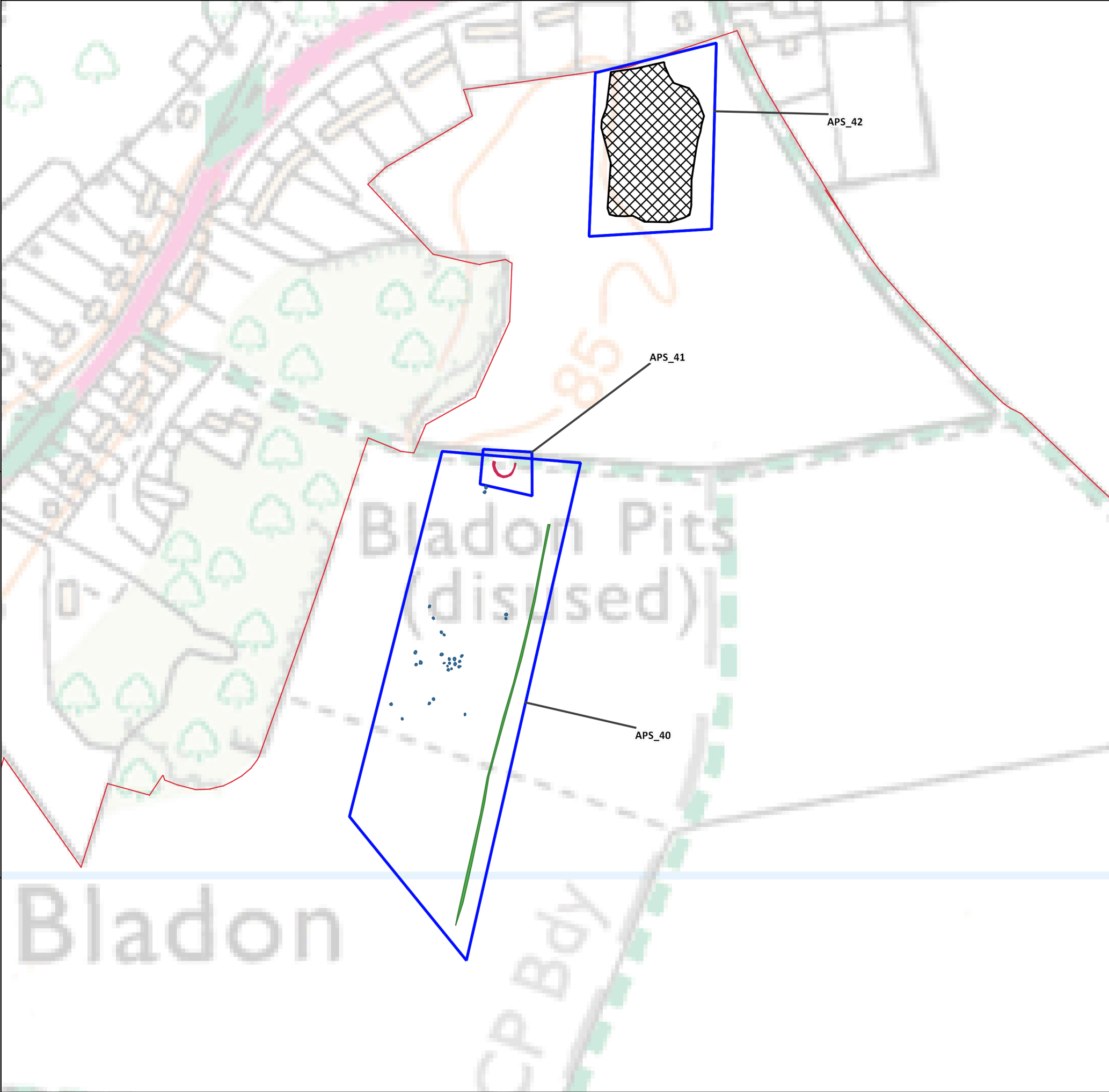
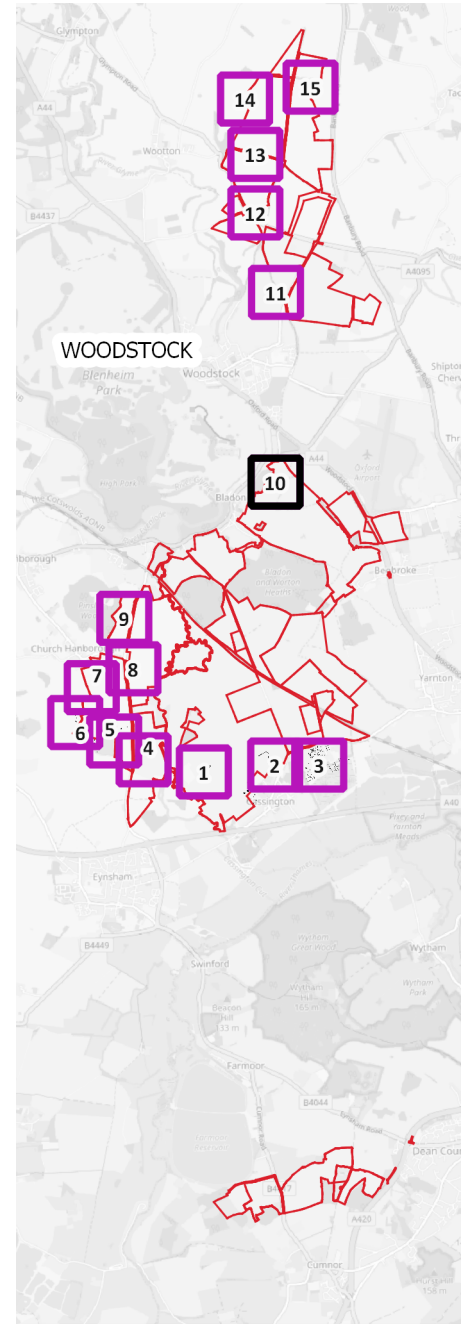
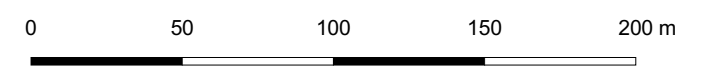


Figure 10: Detail of Sites Page 10



- Botley West Site Areas
- Site Extents
- Ditch
- ▨ Extraction
- Pit
- Ring Ditch



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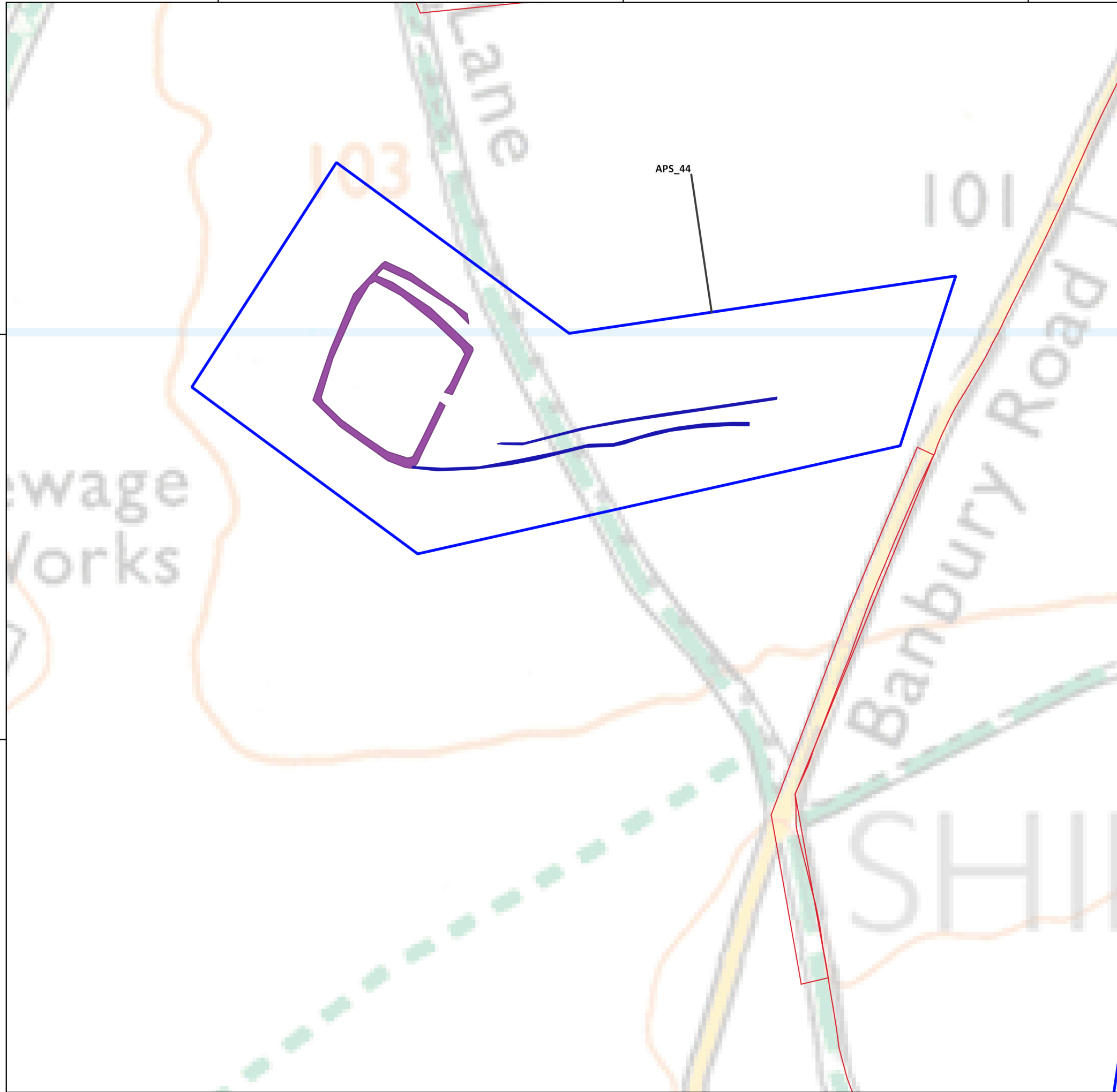
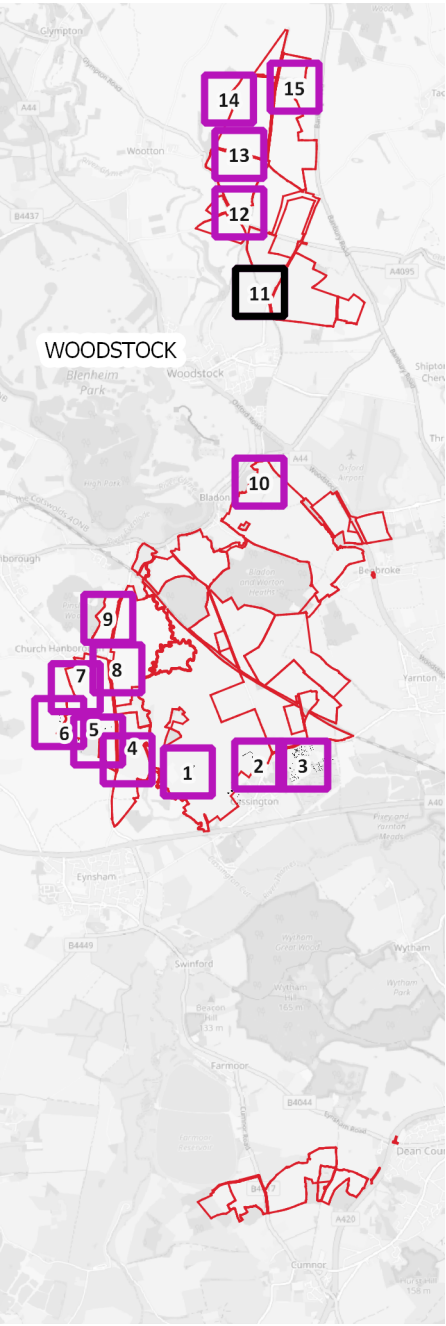
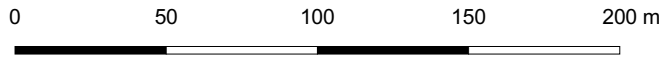


Figure 10: Detail of Sites Page 11



- Botley West Site Areas
- Site Extents
- Enclosure
- Trackway



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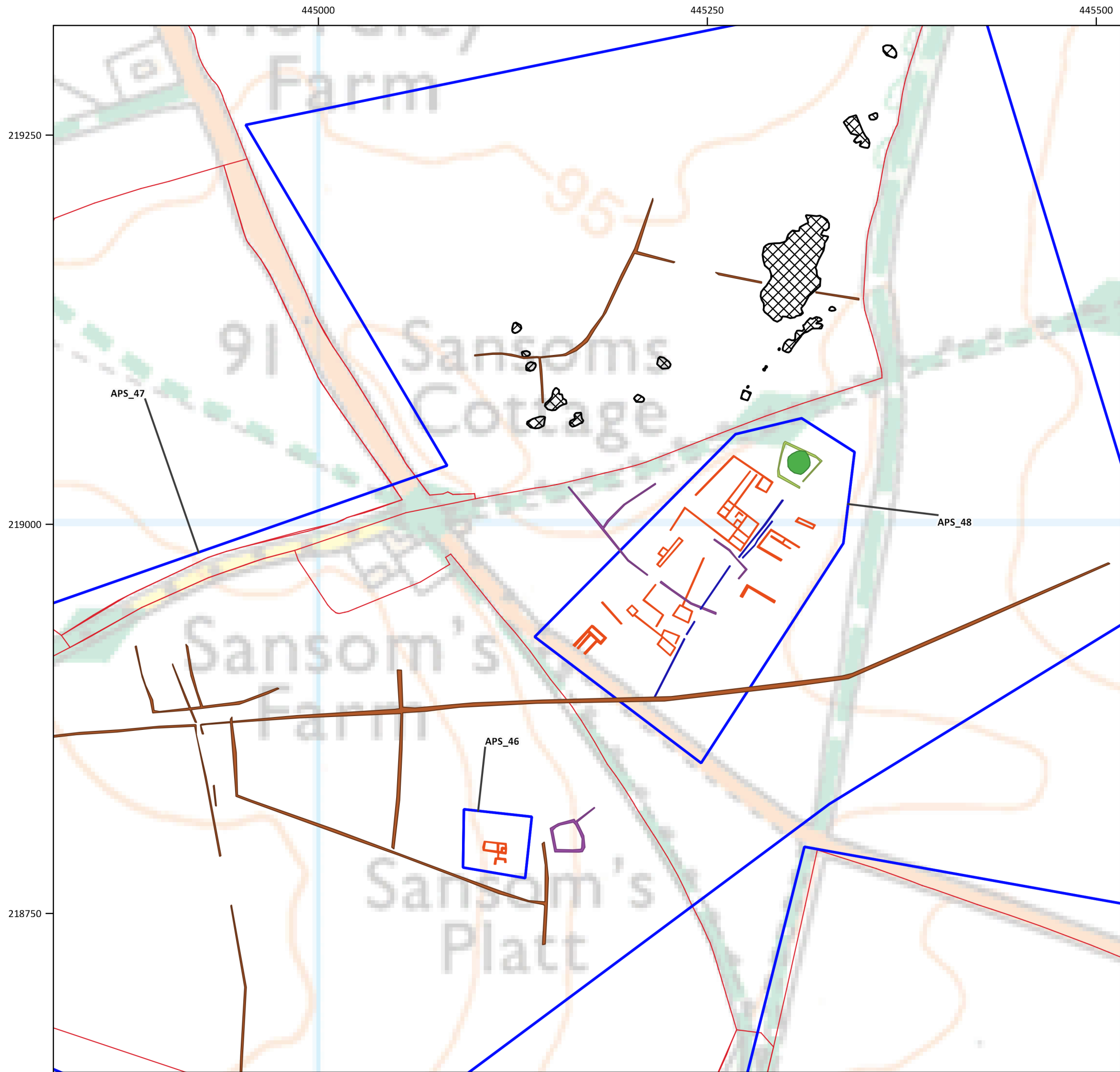
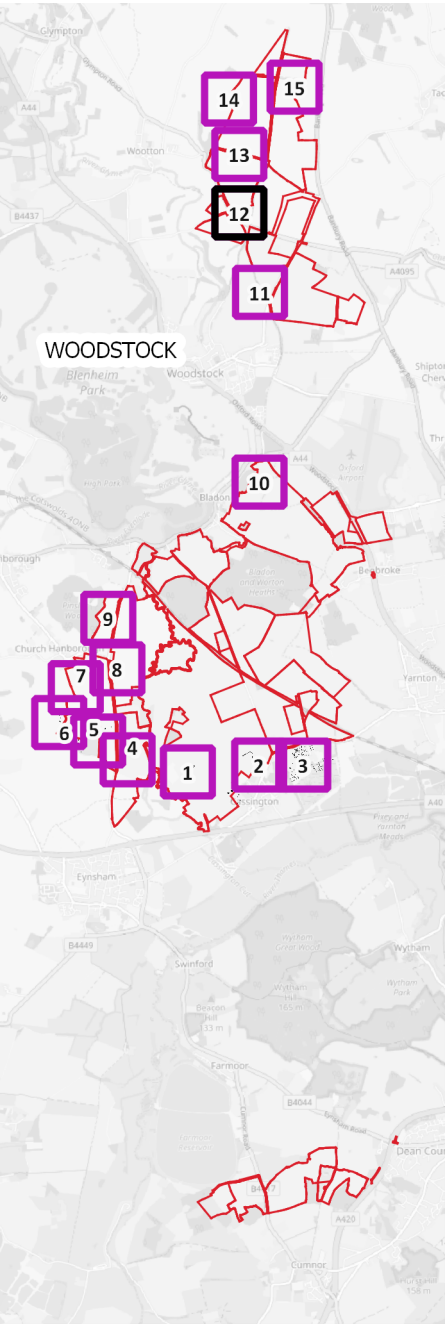
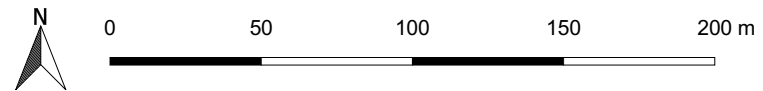


Figure 10: Detail of Sites Page 12



- Botley West Site Areas
- Site Extents
- Ditch
- Enclosure
- Extraction
- Field Boundary
- Foundation
- Rectilinear Ditch
- Trackway



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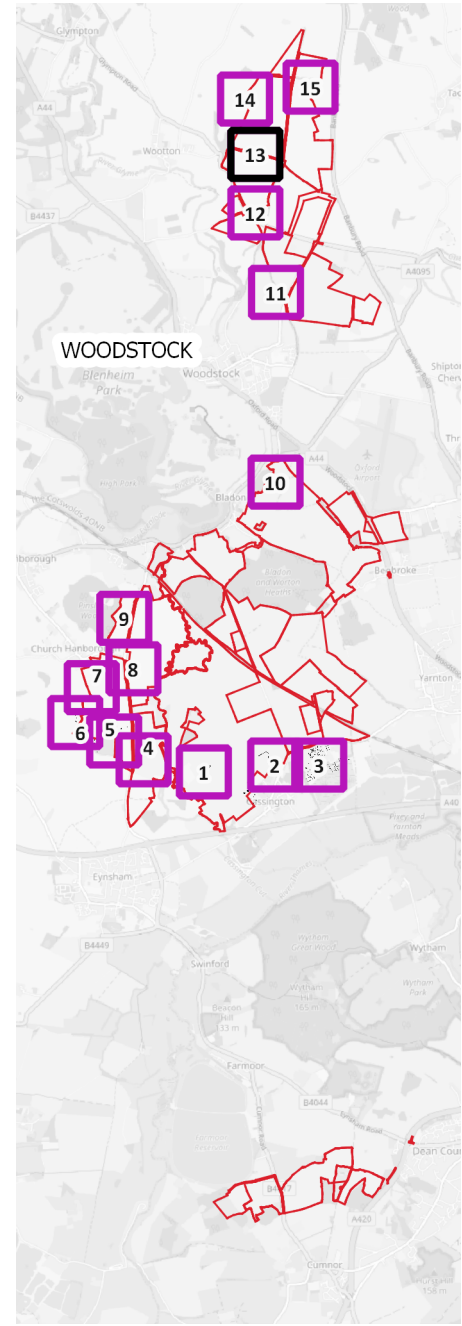


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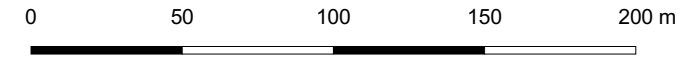
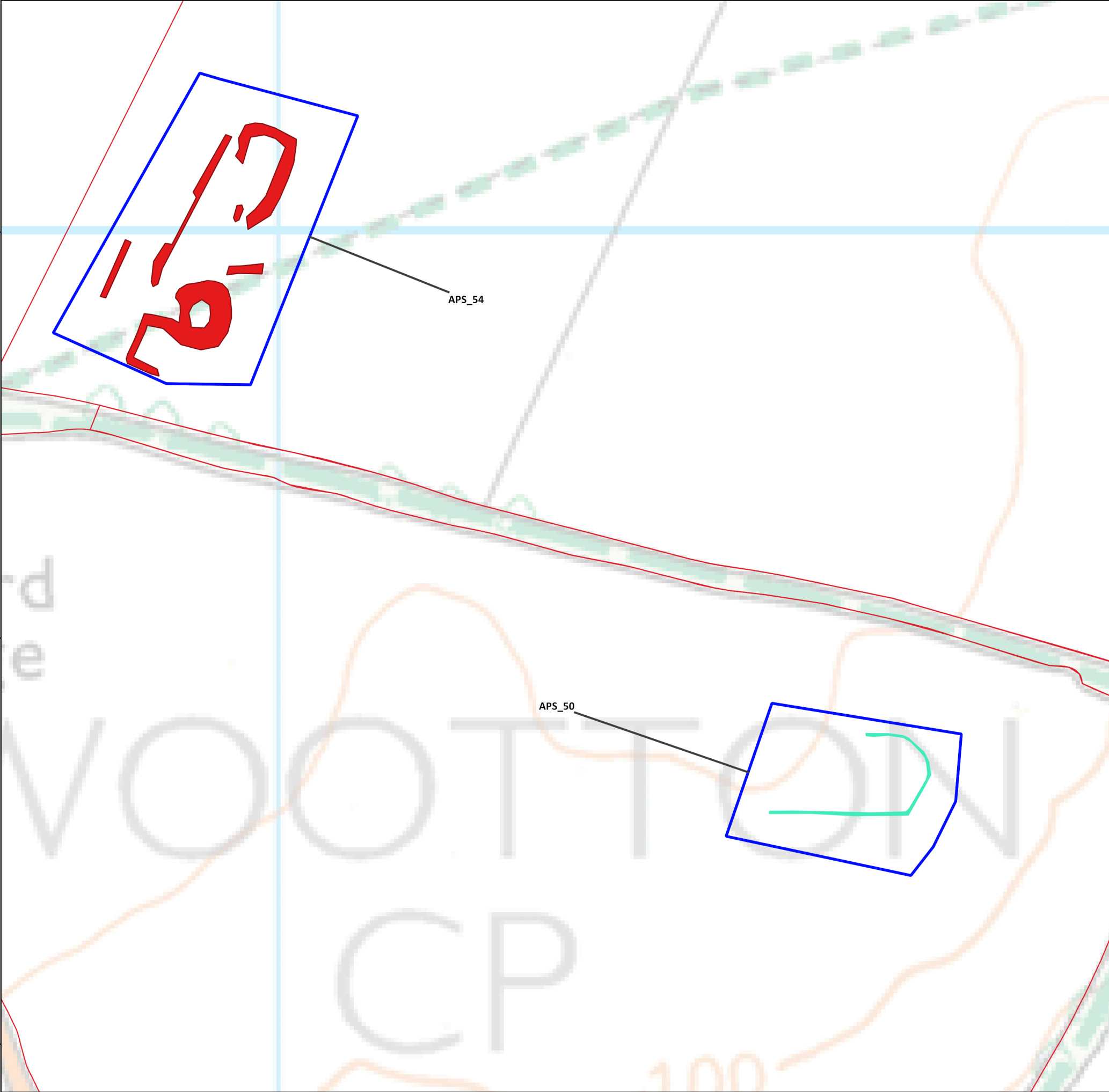
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Figure 10: Detail of Sites Page 13



- Botley West Site Areas
- Site Extents
- Bank
- Curvilinear Ditch



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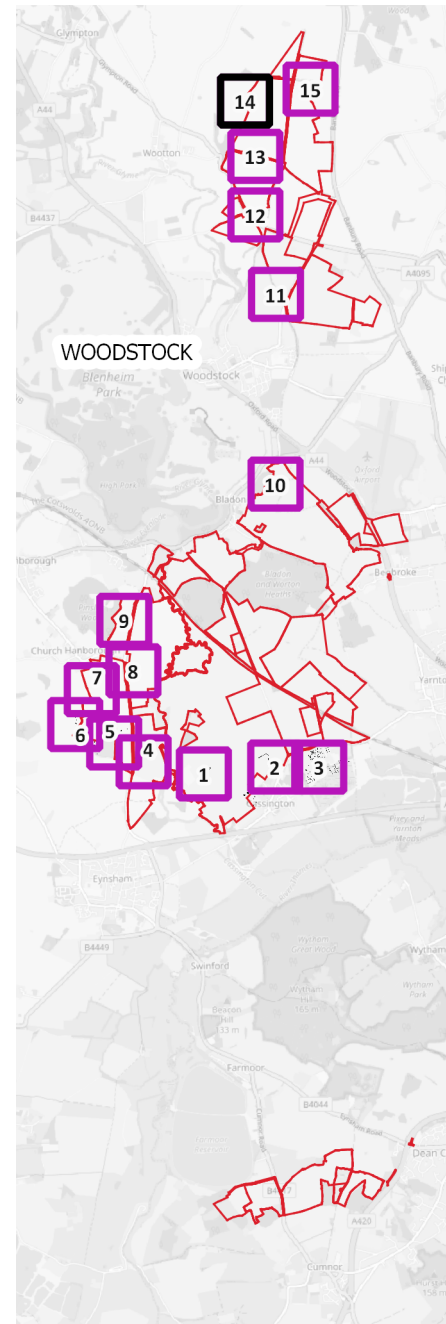
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Figure 10: Detail of Sites Page 14

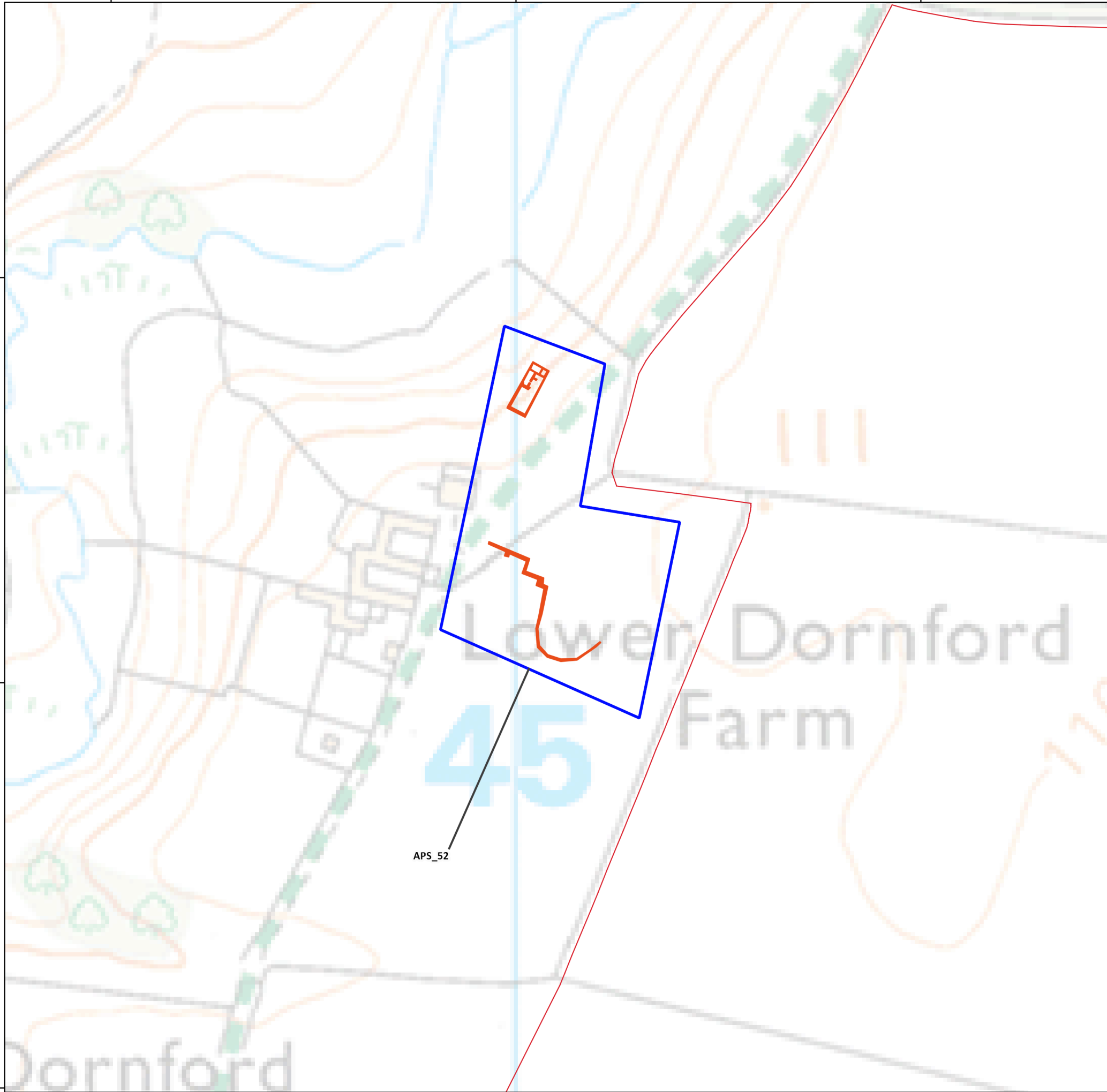


- Botley West Site Areas
- Site Extents
- Foundation

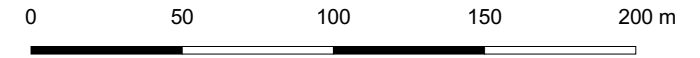
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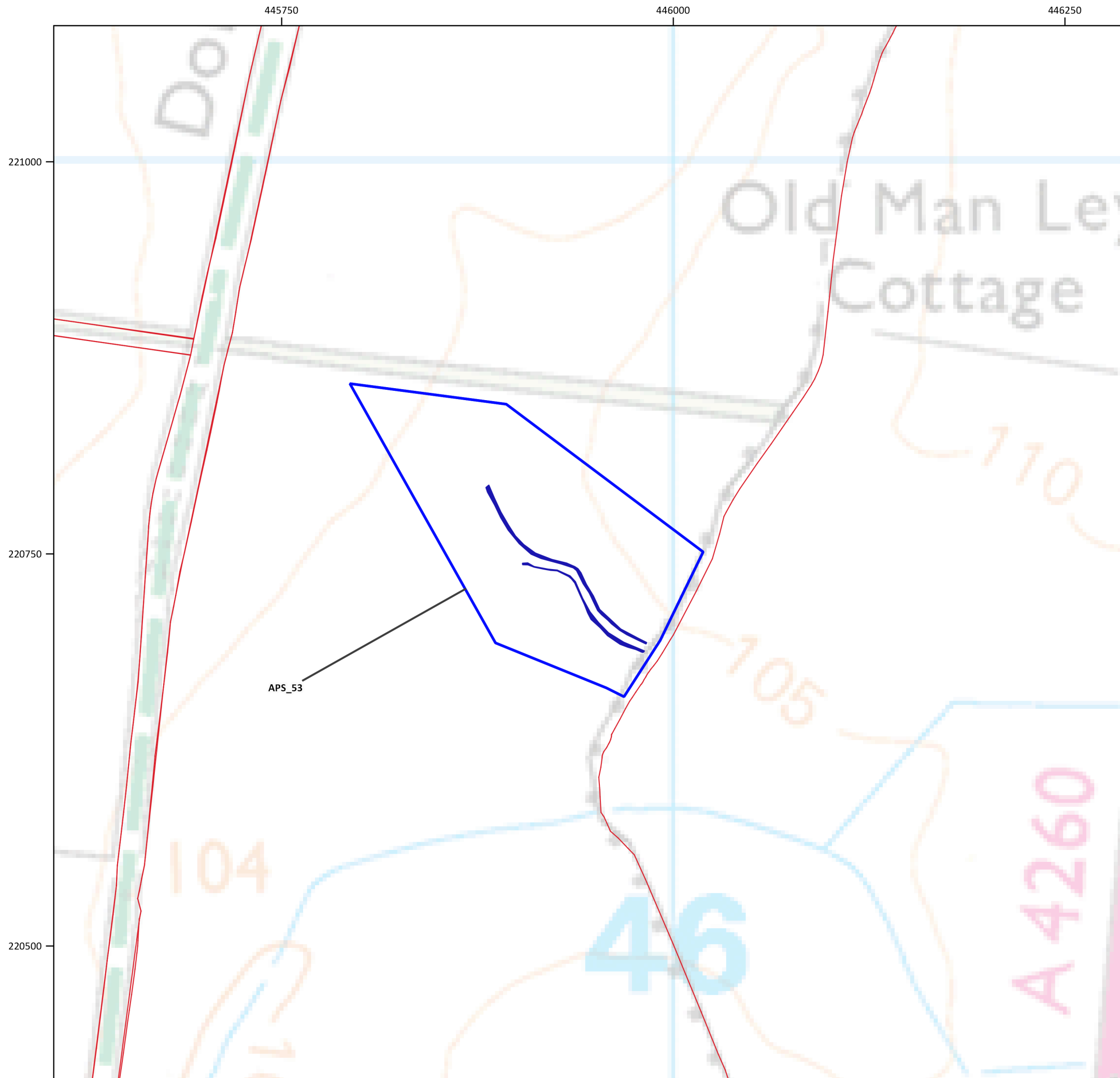
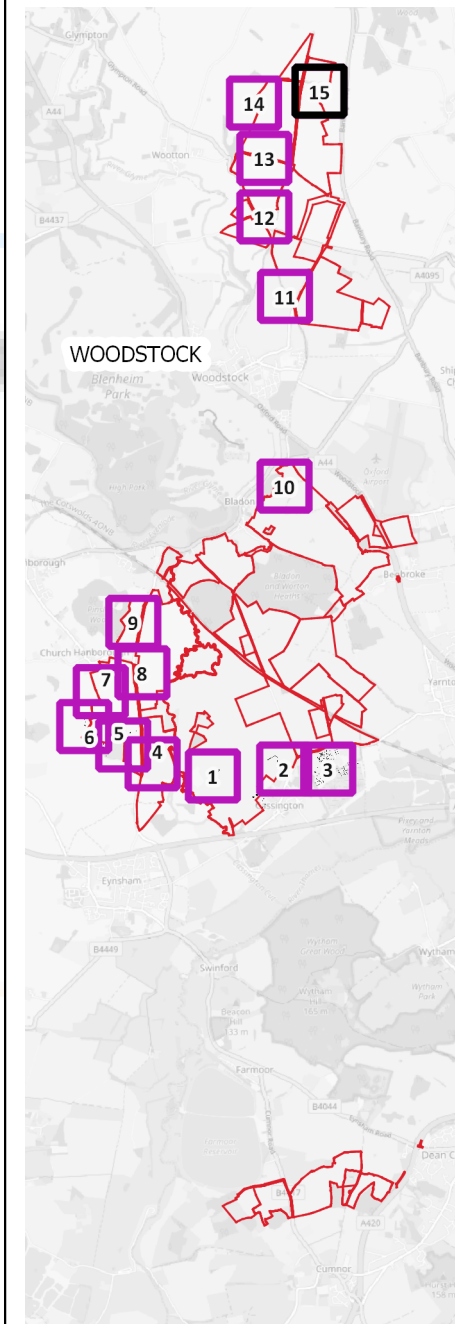
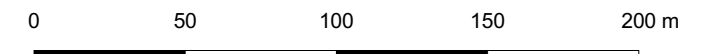


Figure 10: Detail of Sites Page 15



- Botley West Site Areas
- Site Extents
- Trackway



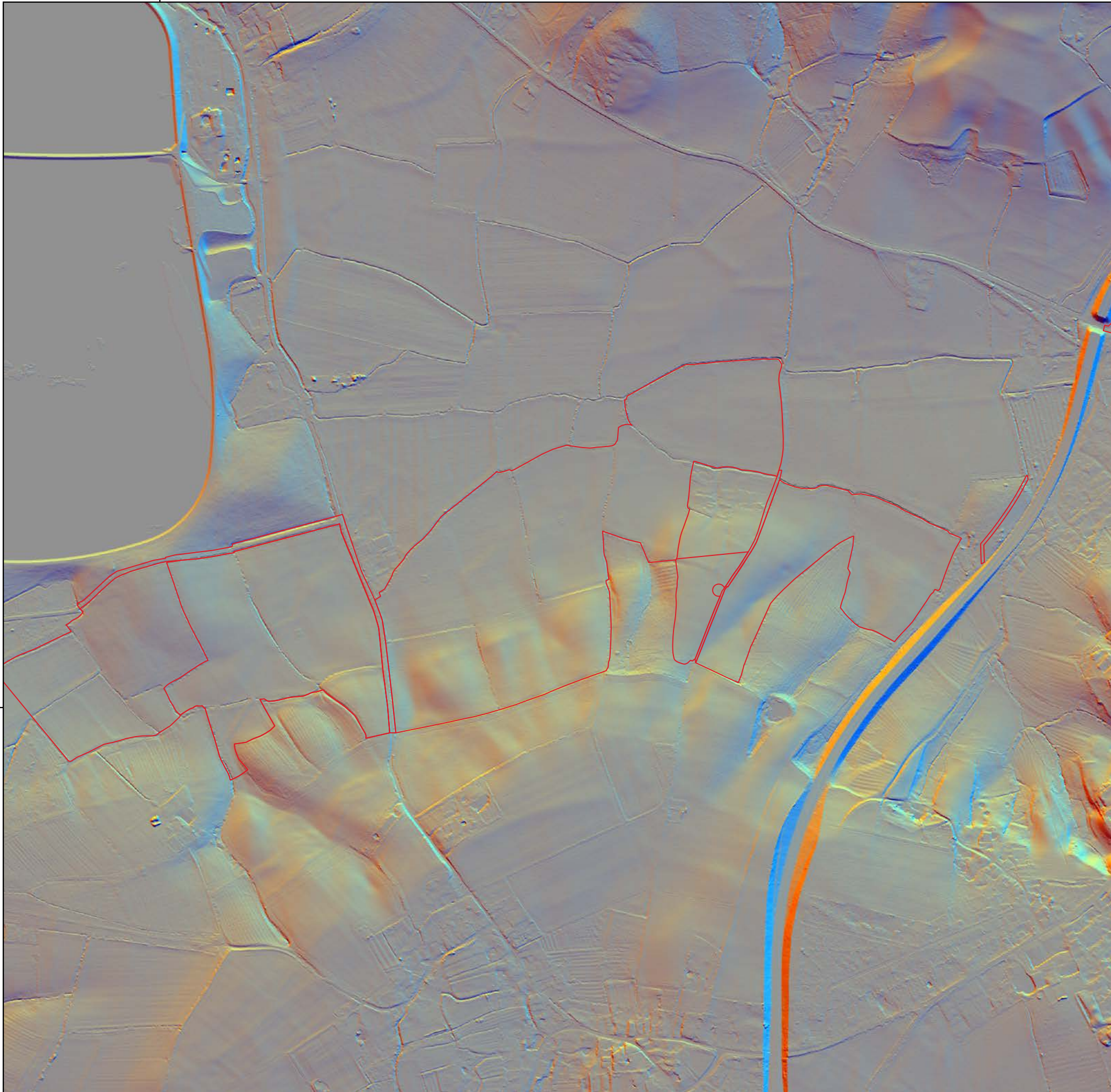
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Figure 11: LiDAR Hillshade Visualisation Page 1

— 222 10 01 Site Boundary

2020 1m National LiDAR Project  
Digital Terrain Model  
Multidirectional Hillshade



0 100 200 300 400 m



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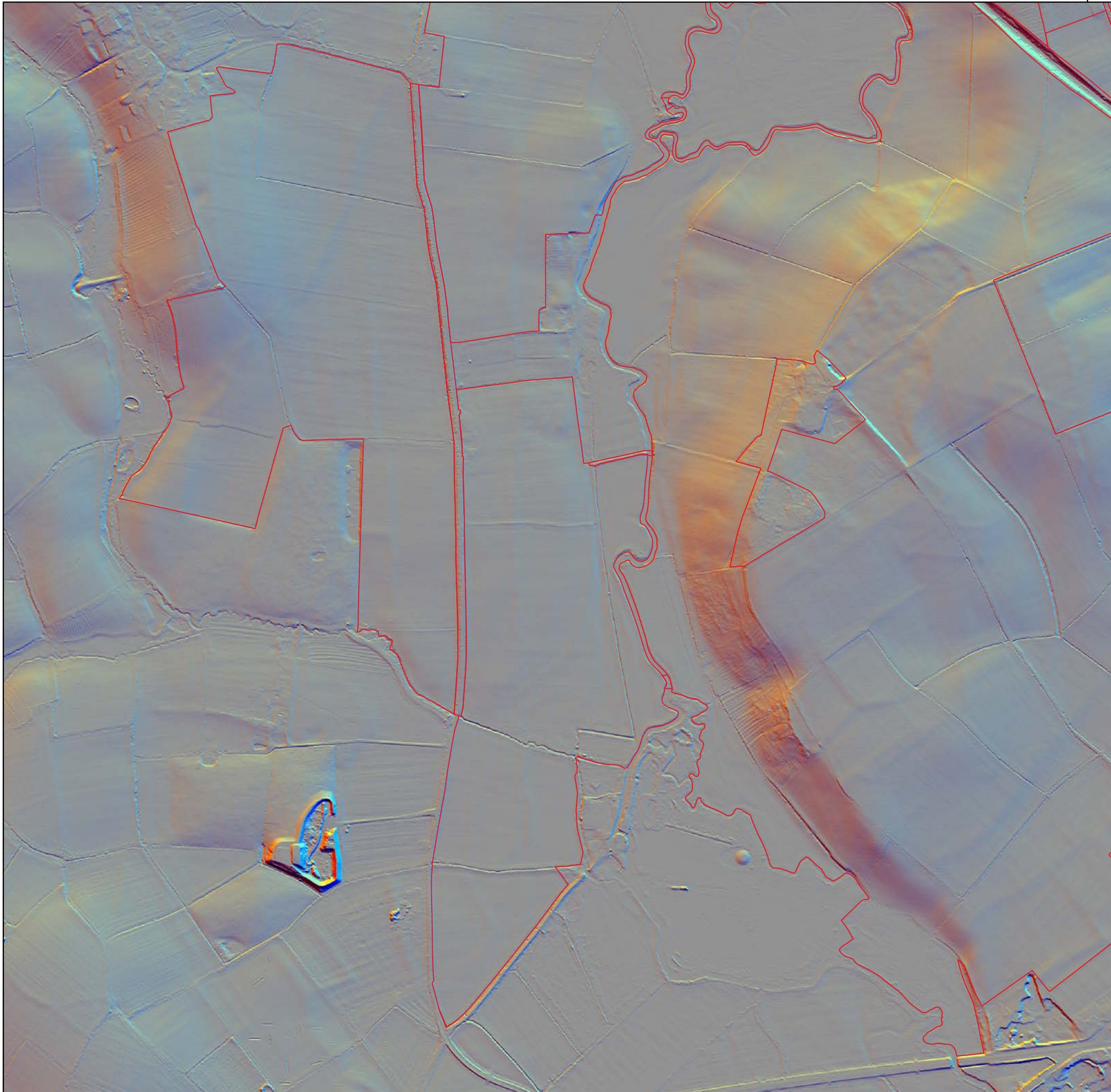
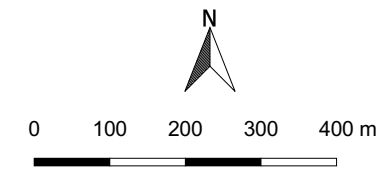


Figure 11: LiDAR Hillshade Visualisation Page 1

— 222 10 01 Site Boundary  
 2020 1m National LiDAR Project  
 Digital Terrain Model  
 Multidirectional Hillshade



Botley West  
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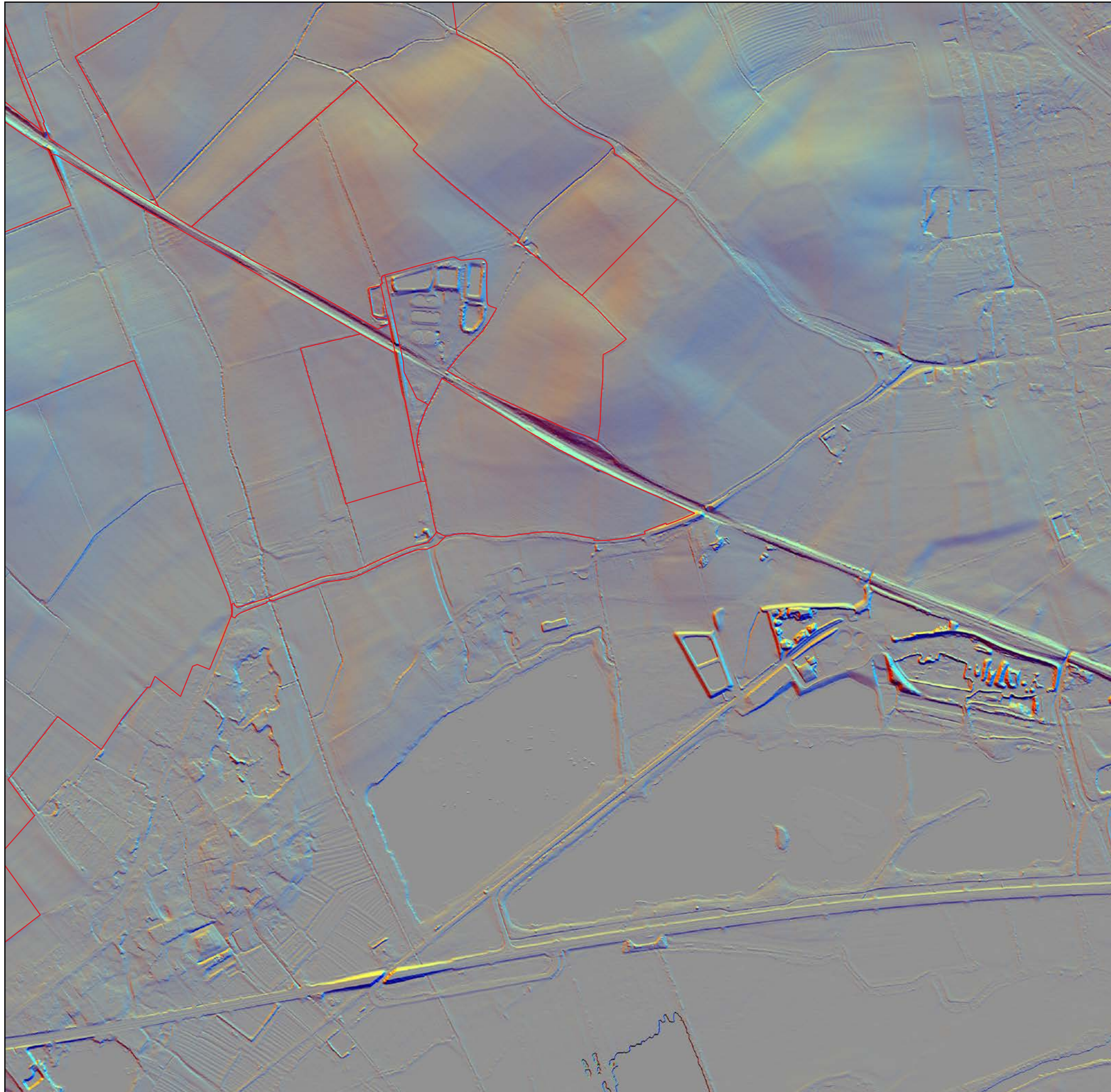
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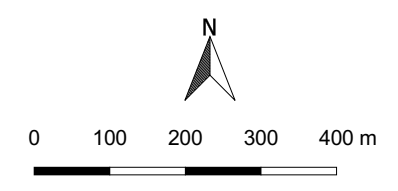
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Figure 11: LiDAR Hillshade Visualisation Page 1



— 222 10 01 Site Boundary  
2020 1m National LiDAR Project  
Digital Terrain Model  
Multidirectional Hillshade



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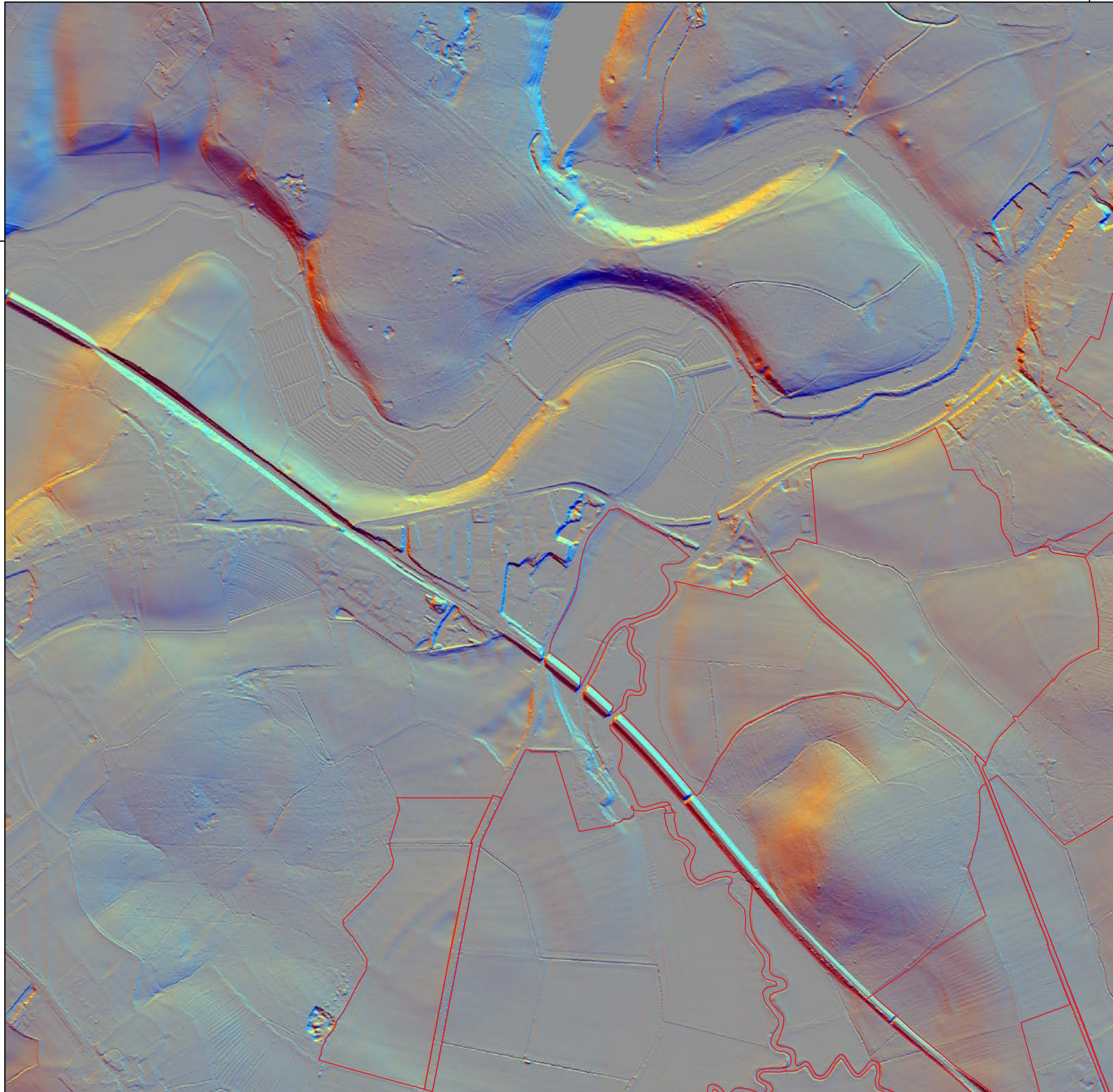


Figure 11: LiDAR Hillshade Visualisation Page 1

— 222 10 01 Site Boundary

2020 1m National LiDAR Project  
Digital Terrain Model  
Multidirectional Hillshade



0 100 200 300 400 m

Botley West  
Assessment of Aerial Imagery

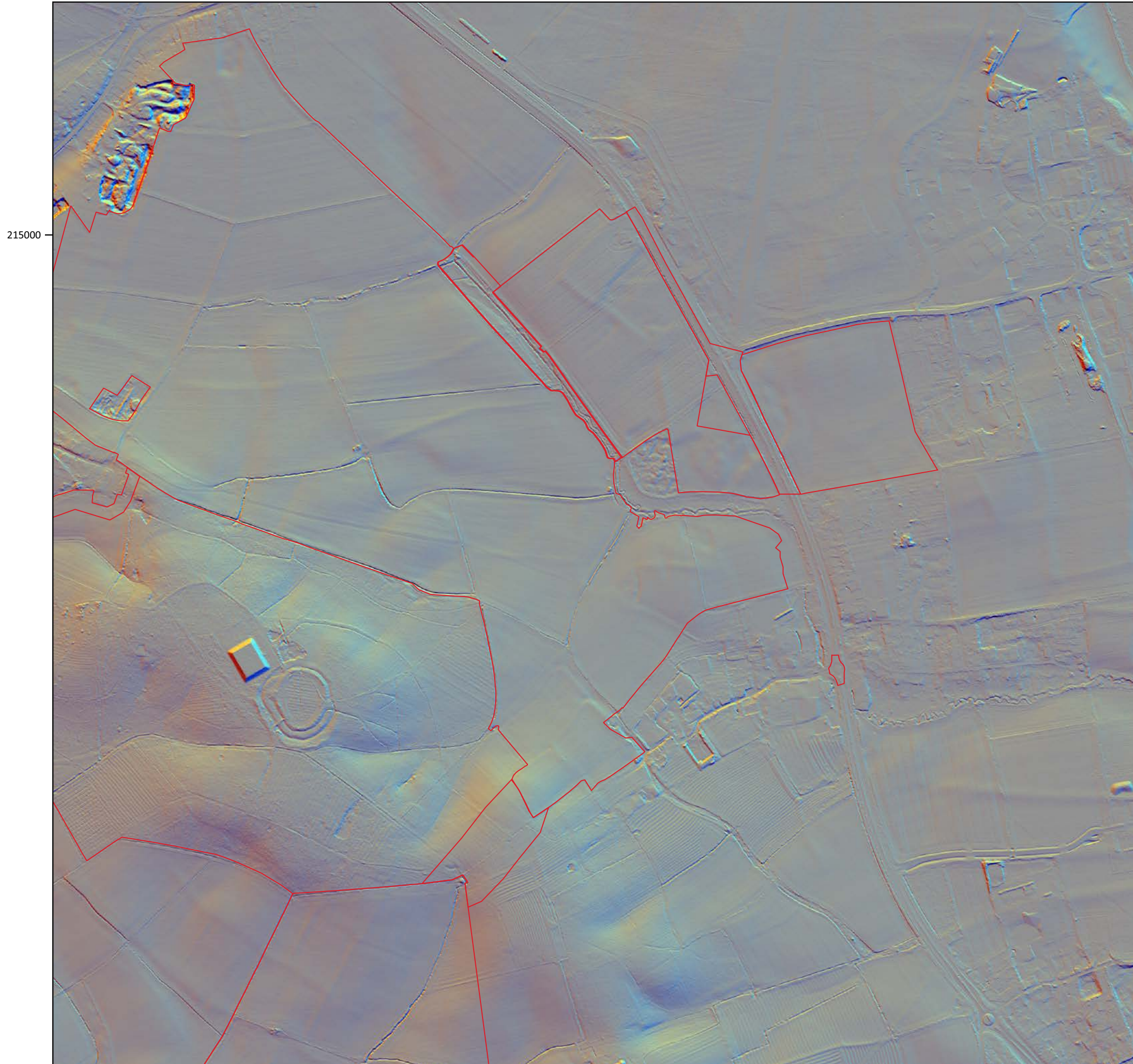
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| By      | Adam Jarvis ACIfA  |
| Source  | Environment Agency LiDAR                                 |



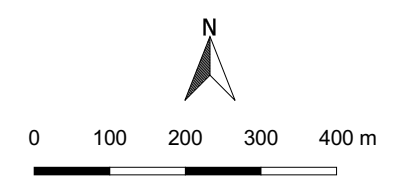
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Figure 11: LiDAR Hillshade Visualisation Page 1



— 222 10 01 Site Boundary  
2020 1m National LiDAR Project  
Digital Terrain Model  
Multidirectional Hillshade



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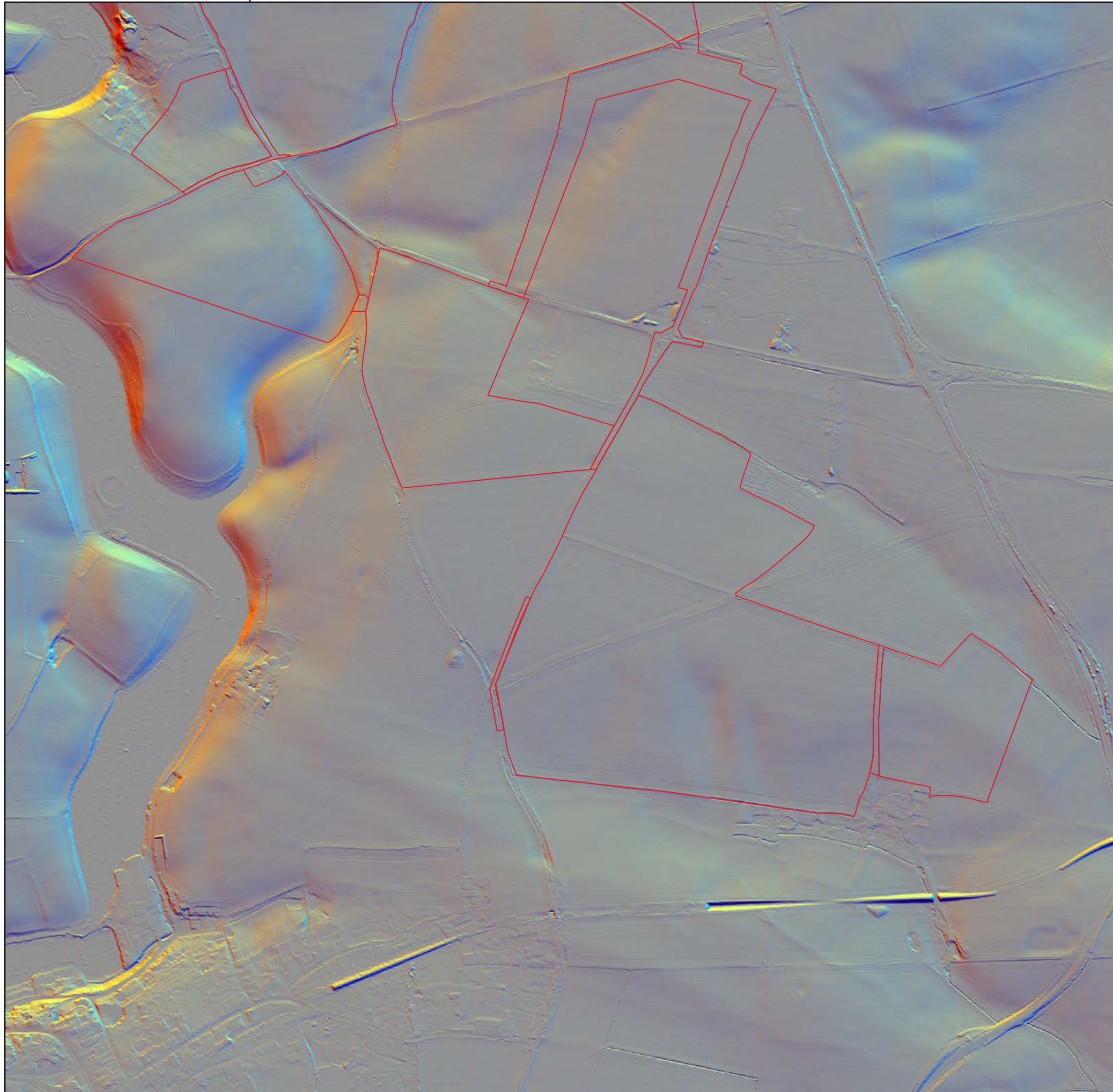
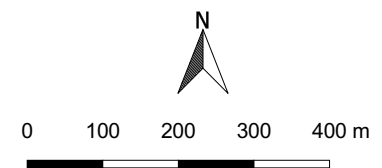


Figure 11: LiDAR Hillshade Visualisation Page 1

— 222 10 01 Site Boundary

2020 1m National LiDAR Project  
Digital Terrain Model  
Multidirectional Hillshade



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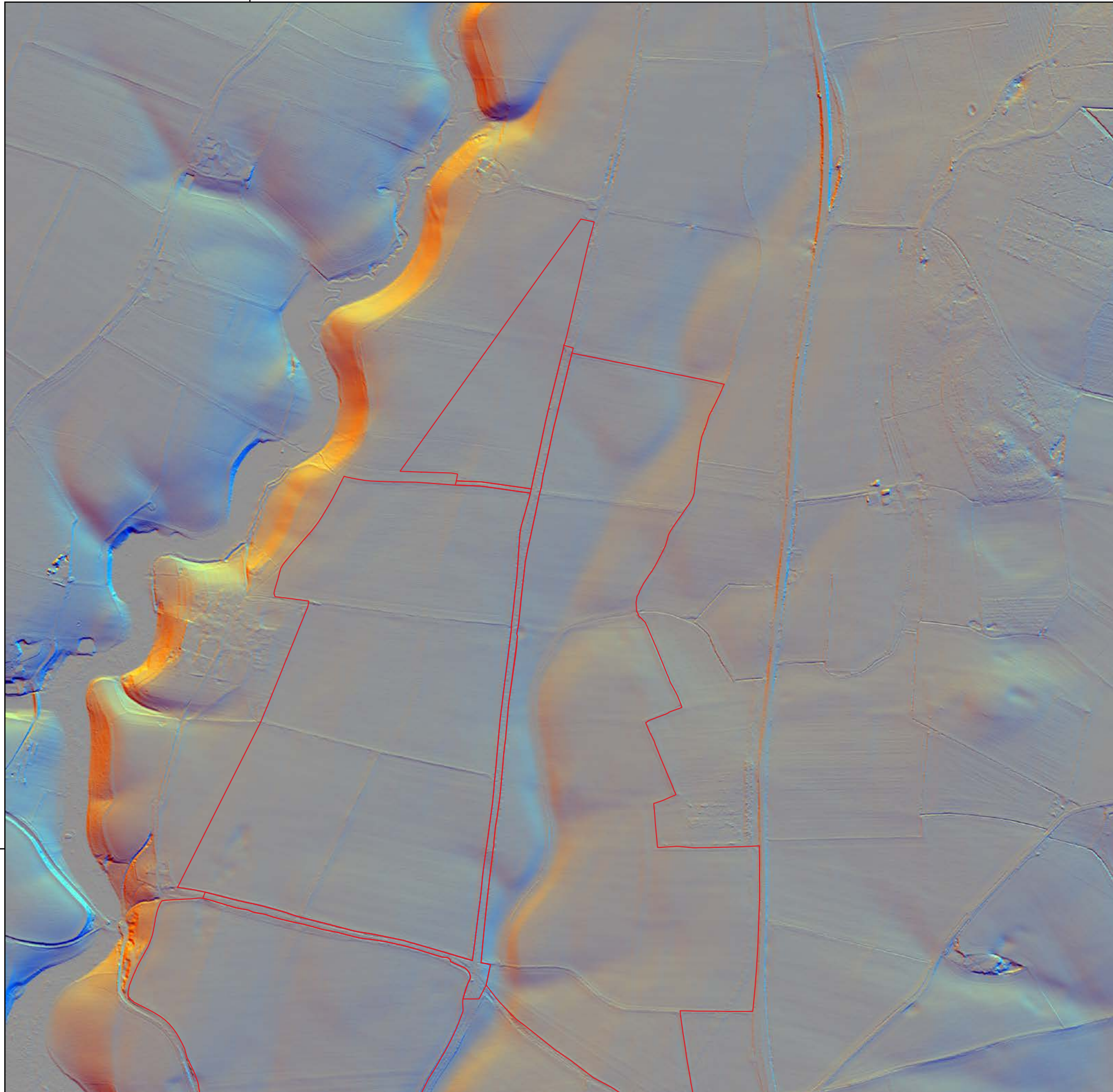
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Figure 11: LiDAR Hillshade Visualisation Page 1

— 222 10 01 Site Boundary

2020 1m National LiDAR Project  
Digital Terrain Model  
Multidirectional Hillshade



0 100 200 300 400 m



Botley West  
Assessment of Aerial Imagery

|         |  |
|---------|--|
| Client  | RPS Heritage on behalf of Photovolt Development Partners |
| Date    | April 2023   |
| Project | APS 222 10 01  |
| By      | Adam Jarvis ACIfA  |
| Source  | Environment Agency LiDAR                                 |



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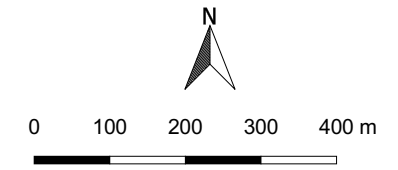
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Figure 12: LiDAR Simple Local Relief Model  
Visualisation Page 1

— 222 10 01 Site Boundary  
 2020 1m National LiDAR Project  
 Digital Terrain Model  
 Simple Local Relief Model



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 Project APS 222 10 01  
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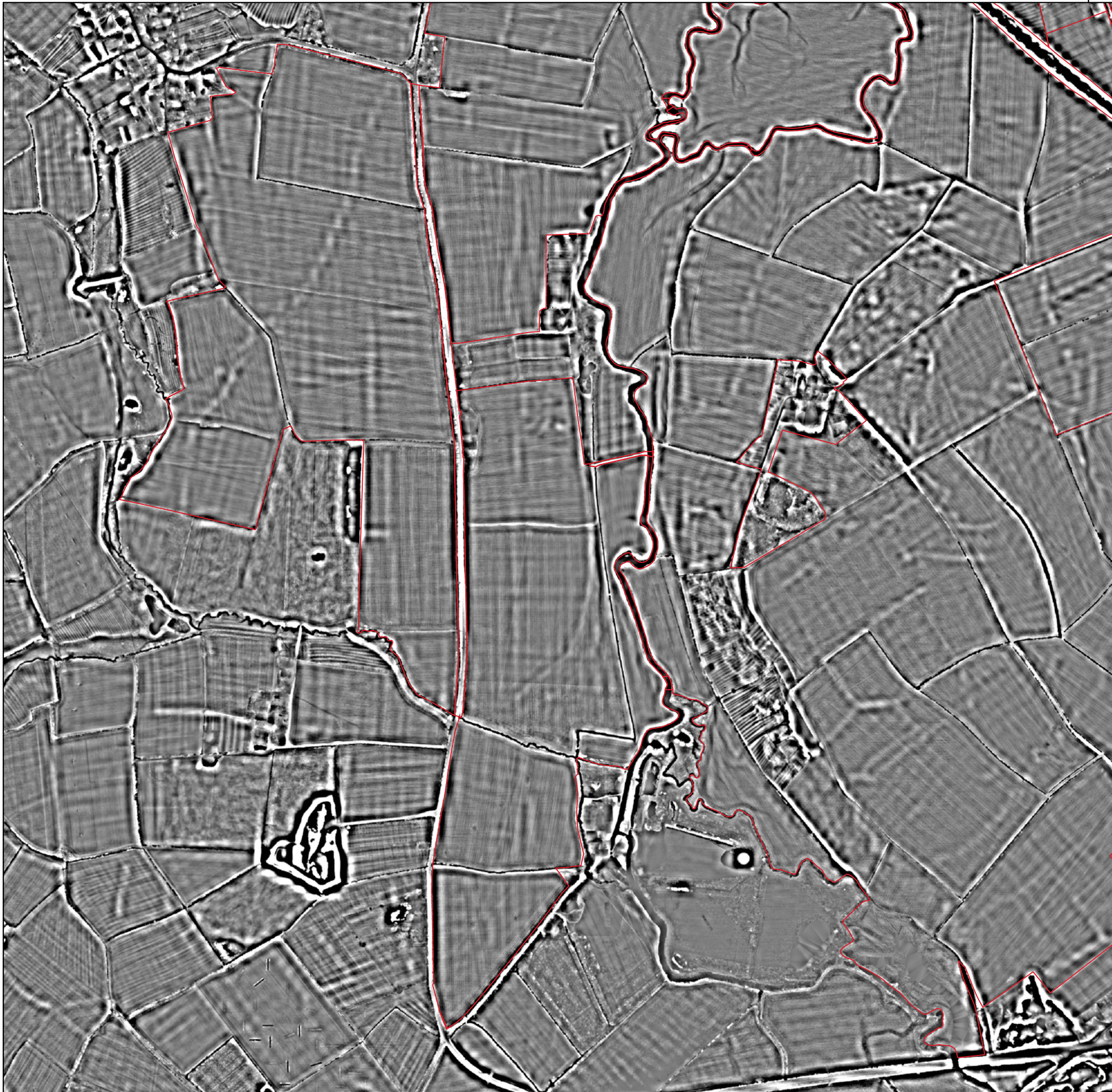
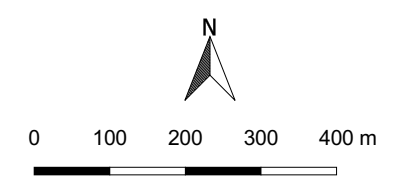


Figure 12: LiDAR Simple Local Relief Model  
 Visualisation Page 1

— 222 10 01 Site Boundary  
 2020 1m National LiDAR Project  
 Digital Terrain Model  
 Simple Local Relief Model



Botley West  
 Assessment of Aerial Imagery

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 Date April 2023  
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 Source Environment Agency LiDAR

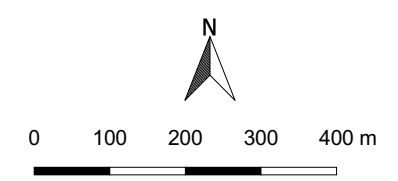






Figure 12: LiDAR Simple Local Relief Model  
Visualisation Page 1

— 222 10 01 Site Boundary  
2020 1m National LiDAR Project  
Digital Terrain Model  
Simple Local Relief Model



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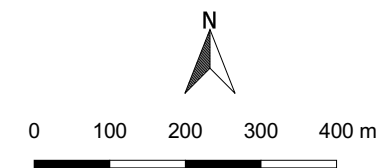
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Figure 12: LiDAR Simple Local Relief Model  
 Visualisation Page 1

— 222 10 01 Site Boundary  
 2020 1m National LiDAR Project  
 Digital Terrain Model  
 Simple Local Relief Model



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 Assessment of Aerial Imagery

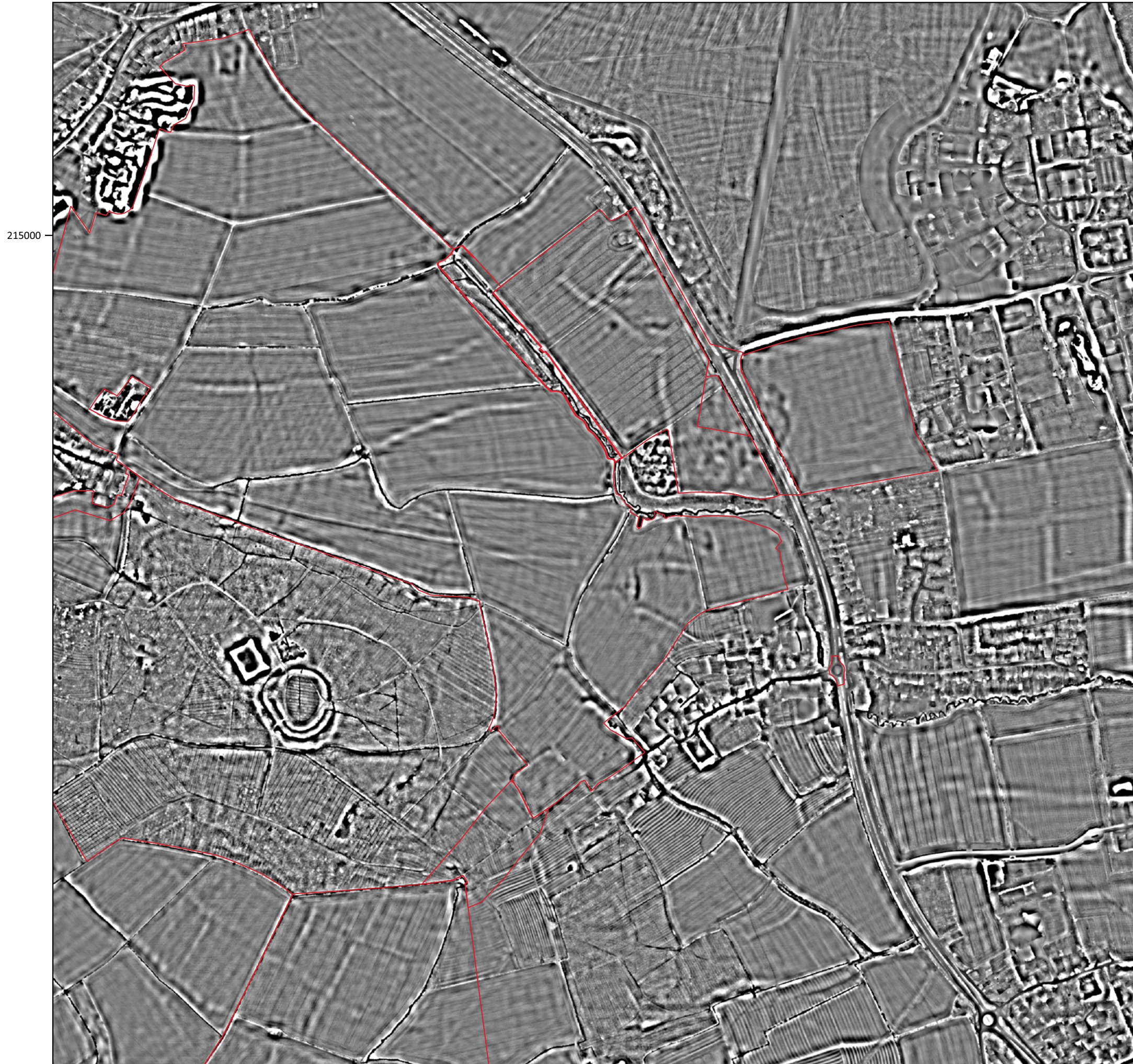
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 By Adam Jarvis ACIfA  
 Source Environment Agency LiDAR



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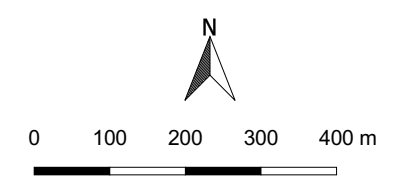
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Figure 12: LiDAR Simple Local Relief Model  
Visualisation Page 1



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— 222 10 01 Site Boundary  
2020 1m National LiDAR Project  
Digital Terrain Model  
Simple Local Relief Model



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Assessment of Aerial Imagery

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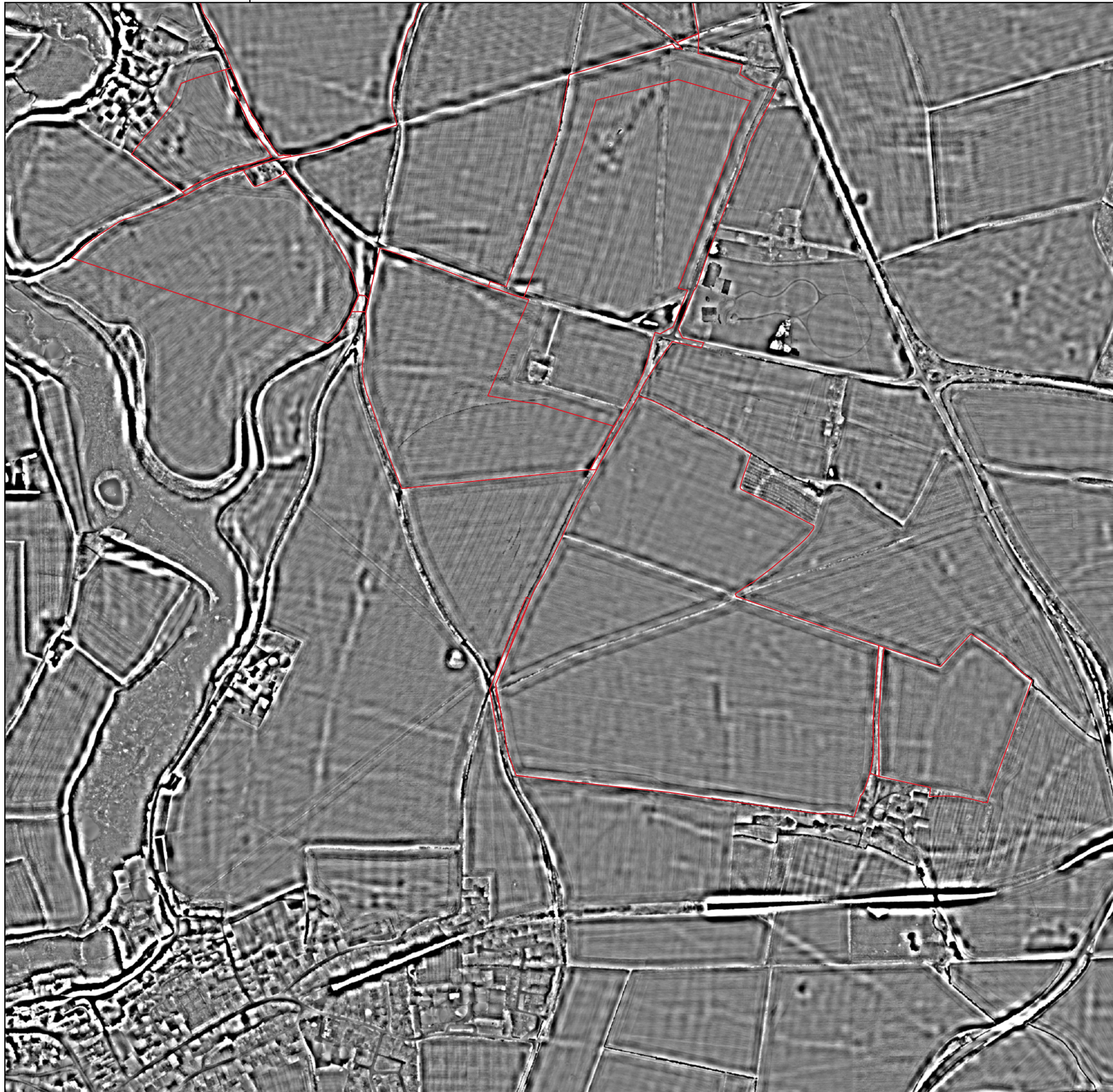
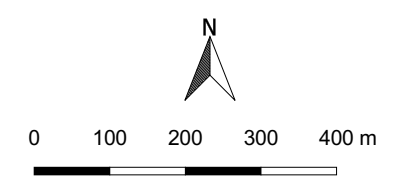


Figure 12: LiDAR Simple Local Relief Model  
Visualisation Page 1

— 222 10 01 Site Boundary  
2020 1m National LiDAR Project  
Digital Terrain Model  
Simple Local Relief Model



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Client RPS Heritage on behalf of Photovolt Development Partners  
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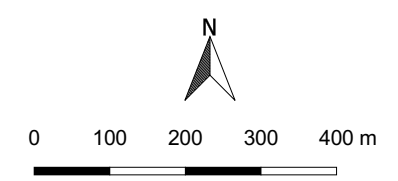
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Figure 12: LiDAR Simple Local Relief Model  
Visualisation Page 1

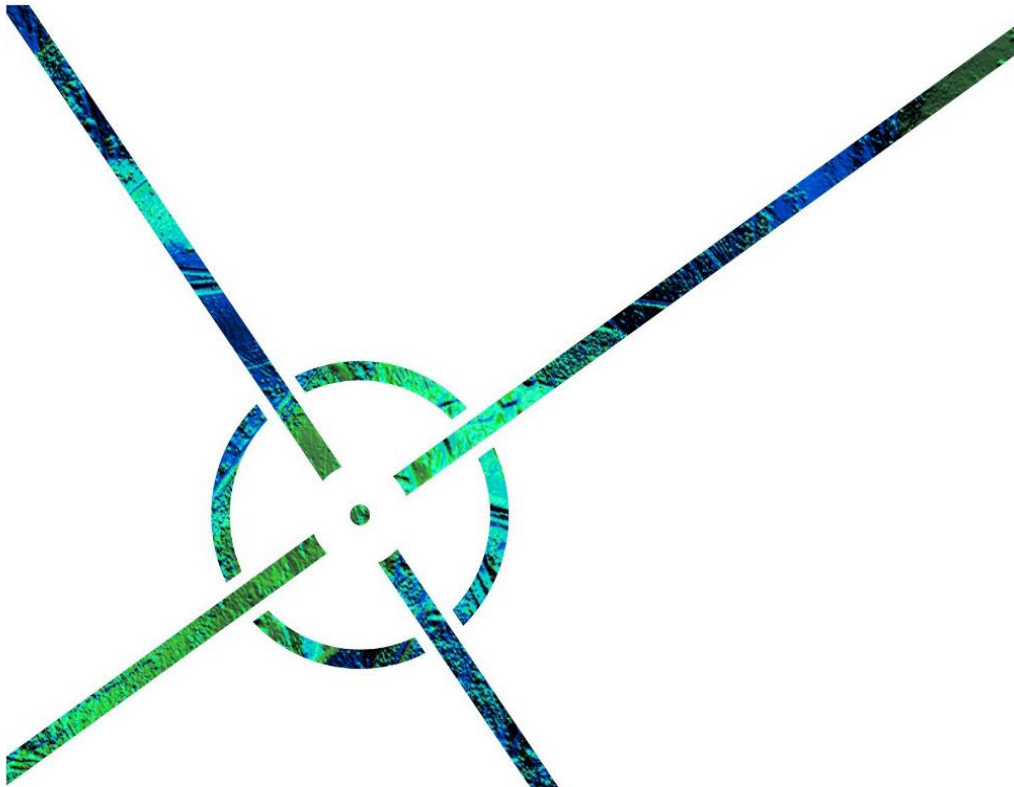
— 222 10 01 Site Boundary  
 2020 1m National LiDAR Project  
 Digital Terrain Model  
 Simple Local Relief Model



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# AIR PHOTO SERVICES

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