



# 1EWo3 Enabling Works Contract AWHe Fieldwork Report for Trial Trenching at C21014 Upper Wendover Dean Farm – Wendover - Buckinghamshire (AC210/6) 1C19RLBTT

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# 1 Executive Summary

- 1.1.1 An archaeological evaluation was undertaken on land at Upper Wendover Dean Farm C2a, near Wendover Dean, Buckinghamshire by INFRA.
- 1.1.2 The Site encompassed a single large, arable field located to the south and west of Hartley Farm, covering an area of 5.77ha (NGR 487931 205681; Figure 1).
- 1.1.3 The evaluation was targeted on the proposed site of the Small Dean South Embankments and Rocky Lane Cutting, including HS2 vehicle access construction, provision of satellite construction compounds, pond and basin excavation, public right of way diversion and construction, tree planting and landscaping as outlined in the Project Plan (Document Ref: 1EW03-FUS-EV-REP-CS03\_CL05-002524).
- The Site had the potential for later prehistoric, Roman, medieval and later remains. Prehistoric, Roman and early medieval activity in the area is represented by isolated finds, however the geophysical survey identified anomalies that may be associated with later prehistoric activity. Levelled ridge and furrow earthworks were identified on aerial photographs at the southeast, southwest and to the north of Site, and supported by geophysical survey, indicating the Site was likely cultivated in the medieval or postmedieval period. Metal detecting in the area has produced isolated medieval artefacts.
- 1.1.5 A trial trench evaluation comprising 23 trenches, targeted on geophysical anomalies, LiDAR imagery and blank areas, was designed to archaeologically investigate the Site. No archaeological features or deposits were recorded in any of the trenches. One trench contained a modern disturbance.

The site code issued by Fusion for these works was 1C19RLBTT. The Fusion Site GIS ID No. was C21014.

# 2 Introduction

- 2.1.1 INFRA was commissioned by Fusion on behalf of HS2 to undertake an archaeological trial trench evaluation on land designated as (Fusion Site GIS ID no C21014) Upper Wendover Dean Farm (hereafter referred to as the Site), Rocky Lane Cutting, Wendover, Buckinghamshire (AC210/8) (NGR SP 487969 205521; Figure 1). This report details the results of archaeological trenched evaluation conducted in February 2019.
- The Site encompassed a single large, arable field located to the south and west of Hartley Farm, covering an area of 5.77ha.
- 2.1.3 The archaeological work was required prior to the construction of the Small Dean South Embankment and excavation of the Rocky Lane Cutting, including HS2 vehicle access construction, provision of satellite construction compounds, pond and basin excavation, public right of way (PROW) diversion and construction, tree planting and landscaping.
- 2.1.4 The site code allocated by Fusion for this phase of work was 1C19RLBTT.

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2.1.5 All works were undertaken in accordance with the Project Plan for Trial Trenching Evaluation at Rocky Lane, Small Dean South Embankment and Upper Wendover Dean Farm (Doc Ref 1EWo3-FUS-EV-REP-CSo3\_CLo5-002524) which covers the Site and two adjacent sites; (1EWo3-FUS-EV-REP-CSo3\_CLo5-009415) and Upper Wendover Dean Farm sites C21011 (doc ref 1EWo3-FUS-EV-REP-CSo3\_CLo5-009417) C21014 (doc ref 1EWo3-FUS-EV-REP-CSo3\_CLo5-009422); and the Generic Written Scheme of Investigation: Historic Environment Research and Delivery Strategy (GWSI: HERDS) and the Location Specific Written Scheme of Investigation (LSWSI) (Doc Ref 1EWo3-FUS-EV-REP-CSo3\_CLo6-002529).

A total of 23 trial trenches were excavated measuring 30m x1.8m.

# 3 Project Background

3.1.1 High Speed 2 (HS2) is a new railway network proposed by Government to provide a link between London, the West Midlands, the East Midlands, South Yorkshire, Leeds and Manchester. Phase One of HS2 will involve the construction of a new railway approximately 230km (143 miles) in length between London and the West Midlands. Powers for the construction, operation and maintenance of Phase One are conferred by the High-Speed Rail (London - West Midlands) Act 2017.

The overall framework within which archaeological work will be undertaken is set out in the Environmental Minimum Requirements (EMR), the Heritage Memorandum, the Code of Construction Practice (CoCP) for HS2 Phase One and the GWSI: HERDS. Accordingly, the nominated undertaker or the Archaeological Contractor (in this case Infra JV) are required to implement appropriate and reasonable measures to identify, avoid or where practicable reduce impacts to the significance of heritage assets prior to the start of construction.

# 4 Site Location

- 4.1.1 The Site lies on the eastern side of a dry valley through the Chilterns, which further south becomes the valley of the River Misbourne, the river rising at Great Missenden, a little more than 3km down the valley from the Site.
- 4.1.2 The Site encompasses one large arable field located to the south and west of Hartley Farm, covering an area of 5.77ha, and is centred on NGR 487931 205681 (Figure 1).

# 5 Site Geology and Topography

#### Site Geology

5.1.1 The British Geological Survey¹ maps the underlying geology of the Site as chalk of the Holywell Nodular Chalk Formation and the New Pit Chalk Formation, deposited c.101

<sup>&</sup>lt;sup>1</sup> British Geological Survey 2017 Geology of Britain viewer [online] accessed 01 December 2017 from http://mapapps.bgs.ac.uk/geologyofbritain/home.html

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to 90 million years ago (MYA) in the Cretaceous period. No overlying superficial deposits are recorded over most of the site, though clay, silt, sand and gravel Head Deposits of Quaternary date are indicated along the western margins of land parcel C21010. The parent geology gives rise to freely draining, slightly acid but base-rich soils<sup>2</sup>. Intrusive surveys have been carried out within the site to further inform the stratigraphic sequence but the results of these are not publicly available.

The parent geology gives rise to shallow, loamy, freely draining slightly acid but baserich soils<sup>2</sup>. No intrusive surveys have been carried out to further inform the stratigraphic sequence within the Site.

#### **Topography**

The Site slopes upwards from west to east but the slope is generally gentler than the parcel to the south; rising from c.158m aOD in the west to c.172m aOD in the east.

# 6 Previous Works

- 6.1.1 A Project Plan detailing the scope, aims and methodologies required to address specific GWSI: HERDS research objectives identified as being applicable to this Site was prepared for the works (Document no: 1EW03-FUS-EV-REP-CS03\_CL05-002524).
- 6.1.2 A Location Specific Written Scheme of Investigation (LSWSI) detailing the methodology, deliverables, programme, health, safety and environmental requirements, resources and interfaces necessary to deliver the archaeological evaluation was prepared for Archaeological Evaluation was compiled by Fusion prior to the commencement of work (Document no: 1EW03-FUS-EV-REP-CS03\_CL06-002529).
- An Environmental Statement (ES 3.5.2.10) was prepared in 2013 which provided the evidence base against which the assessment of assets that may be affected by the construction of the Proposed Scheme could be determined. It contained information about known and potential heritage assets from a variety of sources and presented a chronological description and discussion of the development of the study area, placing assets within their historical and archaeological context. No known heritage assets were identified within the Site, nor does the Site lie within an ANA.

#### **Geophysical Survey**

6.1.4 A geophysical survey undertaken as part of the HS2 project identified linear anomalies interpreted as plough marks as well as discrete trends and anomalies of uncertain origin (C252-ETM-EV-REP-020-000263\_P02).

<sup>&</sup>lt;sup>2</sup> Cranfield Soil and Agrifood Institute 2017 *Soilscapes* [online] accessed 27-03-2019 from www.landis.org.uk/soilscapes/

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#### **Previous Disturbance**

6.1.5 There is little indication that the site has undergone significant disturbance, for example, there is no sign of quarrying within the area to be evaluated, though there is also likely to have been some impact from agricultural ploughing.

#### **Assumptions and Limitations**

- 6.1.6 Archaeological features may contain no dating evidence, limiting the extent to which reliable interpretations can be made.
- 6.1.7 The 2% random sampling trench layout could make features seem artificially isolated.

Geophysical survey may have missed the presence of significant archaeological remains due to ground conditions at the time of survey.

# 7 Aims and Specific Objectives

7.1.1 The full aims and objectives for the archaeological trial trenching can be found in Section 4 of the Project Plan (Doc Ref 1EWo3-FUS-EV-REP-CSo3\_CLo5-002524). Trial trench investigation provides the most suitable method for the recovery of archaeological evidence to inform the research objectives. Section 5 of the Project Plan provides a methodology and deliverables for the trial trench evaluation.

#### 7.2 General Aims

- 7.2.1 The aims of the trial trenching were to:
  - Confirm the presence/absence, extent and depth of any surviving archaeological remains within the Site:
  - Determine the nature, date, condition, state of preservation, complexity and significance of any archaeological remains;
  - Determine the likely range, quality and quantity of artefactual and environmental evidence present;
  - Suggest measures, if appropriate and feasible, for further archaeological investigation to mitigate identified significant impacts; and
  - Contribute to the delivery of GWSI: HERDS Specific Objectives.

## 7.3 Specific HERDS Objectives

- 7.3.1 The trial trenching is required to help clarify the location, extent, survival and significance of any heritage assets in the vicinity of Upper Wendover Dean Farm (Figure 2) and will contribute to the following specific GWSI: Historic Environment Research and Delivery Strategy (HERDS) objectives:
  - KC5: Identifying settlement location and developing models for settlement patterns for the Mesolithic, Neolithic and Early Bronze Age

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• KC15: Can we identify regional patterns in the form and location of Late Bronze Age and Iron Age settlements across the route, and are there associated differences in landscape organisation and enclosure?

- KC21: Assess the evidence for regional and cultural distinctiveness along the length of the route in the Roman period, with particular regard to the different settlement types encountered along the route;
- KC23: Identify evidence for late Roman occupation and attempt to identify any
  continuity in settlement patterns between the end of the Romano-British period
  and the Early Medieval period;
- KC40: Identify patterns of change within medieval rural settlement from the 11th to mid-14th century.

# 8 Scope and Methodology

## 8.1 Scope

8.1.1 The archaeological evaluation of Upper Wendover Dean Farm was undertaken during February 2019 and comprised 23 trenches. These trenches measured 30m x c.2m.

Trenches 64, 65, 68 and 76 were c.4m wide. This included 16 targeted trenches over anomalies revealed by the remote sensing and geophysical surveys in addition to 7 trenches in 'blank areas', giving a total sample of the Site by area of approximately 2%.

#### **Change Control**

8.1.2 During the archaeological investigation unexpected, complex or undated archaeological remains may be encountered. These encounters could necessitate the implementation of a contingency or a variation of the methodology which were defined through change control procedures as outlined in the Project Plan. No trenches were descoped, however, trench 77 was moved during the trial trenching as it was previously located outside of the site boundary, within the overhead exclusion zone and crossed an area of overflowing effluent from a modern cess-pit. Trench 77 was moved south-west by c.5m while maintaining the same orientation.

# 8.2 Methodology

- 8.2.1 This section briefly summarises the methodology utilised during the evaluation. A more detailed description can be found in the project plan.
- 8.2.2 The trial trench evaluation was undertaken in accordance with specific guidance produced by HS2, namely the Technical Standard Specification for historic environment investigations (HS2-HS2-EV-STD-000-000035) and the GWSI: HERDS (HS2-HS2-EV-STR-000-000015), and the Project Plan for Trial Trench Evaluation Investigation at Upper Wendover Dean Farm, Wendover, Buckinghamshire (1EW03-FUS-EV-REP-CS03\_CL05-002524).
- 8.2.3 The field work followed the Standard and Guidance: Archaeological Evaluation (CIfA 2014), the Management of Archaeological Projects 2 (English Heritage 1991), the

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Management of Research Projects in the Historic Environment (MORPHE): Project Managers' Guide (Historic England 2015) and the Technical Standard Specification for historic environment investigations (HS2-HS2-EV-STD-000-000035).

#### **Artefact Recovery**

8.2.4 During the trenching process, approximately 0.5m³ of overburden was sieved at either end of the trench and centrally for the recovery of finds. There were no finds recovered as the Site was sterile.

#### **Setting out**

- 8.2.5 All special setting out and recording was undertaken in accordance with the Ordnance Survey National Grid and Ordnance Survey Newlyn Datum (ODN) as defined by the OS Active Global Navigation Satellite System (GNSS) network and use of a Virtual reference system.
- 8.2.6 Trenches were located to a horizontal accuracy of +/-500mm with surface levels recorded to an accuracy of 10mmÖk: where 'k' was the total distance levelled in kilometres.

#### **Machine Excavation**

- 8.2.7 Trenches were excavated to either the first archaeological horizon or the natural substrate, whichever was reached first, using a mechanical excavator fitted with a toothless bucket.
- 8.2.8 Each machine was under the constant supervision of a suitably trained, competent and experienced archaeologist.
- 8.2.9 Each trench was excavated in 300mm spits and scanned with a CAT scanner to ensure no unidentified services were present.
- 8.2.10 Topsoil and subsoil were stripped and stored separately on either side of the trench as per trench standard soil resource plan.

#### Fieldwork Recording

- 8.2.11 A sufficient sample of each feature was excavated to meet the requirements of the GWSI: HERDS.
- 8.2.12 Archaeological recording included as a minimum:
  - At least one representative section at (1:10 or 1:20 scale) of each evaluation trench, from ground level to the base of the excavation;
  - the written record of individual context descriptions on appropriate pro-forma;
  - plans prepared at appropriate scales (1:10, 1:20 or 1:50);
  - photographs and other appropriate drawn and written records; and
  - other sections, including the half-sections of individual layers or features drawn as appropriate to 1:10 or 1:20.

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- 8.2.13 A 'site location plan', indicating site north was prepared at 1:1250.
- 8.2.14 Individual 'trench plans' were prepared at 1:200 (or 1:100).
- 8.2.15 The location of site plans was identified using OSGB coordinates.

#### **Environmental Sampling**

- 8.2.16 In line with HS2s Technical Standard Specification for Historic Environment Investigations (HS2-HS2-EV-STD-000-00035) the following sampling strategy was implemented:
  - Archaeological features (pits, gullies, boundary ditches and postholes);
  - Deposits representing the main phases of activity on site (to assess whether there were changes in rates of deposition, or material survival over time).
- 8.2.17 Samples were taken using ten litre plastic buckets (with lids and handles), or strong polythene bags (double bagged) secured at the neck, for the recovery of bulk 'disturbed' environmental samples. Labelling followed the guidance set out in the Technical Standard Specification for Historic Environment Investigations (HS2-HS2-EV-STD-000-000035).

#### **Backfilling**

8.2.18 Once recording was completed the trenches were backfilled in reverse order (subsoil first then topsoil) and the ground made good.

# 9 Results

## 9.1 Geological Sequence

- 9.1.1 The natural geology or archaeological horizon comprised of dark orange-brown silt clay with common small angular stones.
- 9.1.2 Topsoil on the Site consisted of dark grey brown silt clay with occasional small stones between 0.22m and 0.38m thick, which overlay a subsoil of dark orange brown silt clay with occasional small stones between 0.1m and 0.28m thick where present.

## 9.2 Archaeological Results

9.2.1 None of the 23 trenches contained archaeological features. One trench contained a modern disturbance.

Plate 1: Summary of trench results

Trench Number	Features	Provisional Date
60-76	Blank	
77	1 x modern disturbance	modern
78-82	Blank	

9.2.2 The result of the one positive trench is discussed below.

#### Trench 77 (figure 4)

9.2.3 A shallow depression [307704], located down slope from a modern cess pit, measured approximately 1.4m wide and 0.35m deep and was located centrally in the trench. It was filled with a wet deposit which had organics present. The depression appeared to be connected to a modern cess pit, located upslope. This was overflowing at the time of investigation and therefore no further recording was conducted.

# 10 Finds Assessment

10.1.1 No finds were retrieved.

# 11 Palaeoenvironmental Assessment

11.1.1 No environmental samples were taken as there were no archaeological features apart from a modern disturbance from an overflowing cess pit.

# Assessment and Interpretation of Results

- No archaeological features were recorded within the trial trenches, with almost all proving blank and one containing a modern disturbance, thought to be associated with a modern cess pit. There was no indication of human activity on the site that was not modern in date.
- No evidence was found of the geophysical anomalies interpreted as ridge and furrow ploughing, nor of the anomalies identified as trends of uncertain origin.
- The results of the evaluation of the Site are unable to directly contribute to any of the specific HERDS objectives for the Site outlined in Section 7.3.1 above. However, the results could contribute to the overall analyses of settlement patterns identified within objectives KC5 and KC15 when incorporated with the evaluation results of surrounding areas by providing evidence of areas which were not settled.

# 13 Statement of Potential of Archaeology

- 13.1.1 The results of the archaeological evaluation on land at Upper Wendover Dean Farm produced no archaeological remains. The Site was previously identified as likely being under cultivation through the medieval and post-medieval periods however no direct evidence of this activity was discovered during the evaluation.
- 13.1.2 Evidence of post-medieval agriculture in the form of ridge and furrow identified during the geophysical survey as per paragraph 11.1.2 are indicative of ongoing ploughing within the Site which could have resulted in the partial disturbance or truncation of any shallow archaeological features.

# 14 Conclusion and Recommendations for Further Investigation

#### 14.1 Conclusions

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14.1.1 No archaeological evidence of activity from any period was revealed during the trial trench evaluation of land at Upper Wendover Dean Farm.

#### 14.2 Recommendations

14.2.1 Due to the absence of archaeological remains from the trial trench evaluation at Upper Wendover Dean Farm, no further work is recommended for this Site.

# 14.3 Consideration of Results and Conclusions within their Wider Context

The absence of archaeological activity found during the evaluation of the Site is not unexpected given the lack of known sites from any period in the vicinity as detailed in the Project Plan (doc ref. 1EWo3-FUS-EV-REP-CSo3-002524). Prehistoric, post-medieval and undated features were revealed during trial trench evaluations at Rocky Lane (C21010) to the immediate north of Site (doc. ref. 1EWo3-FUS-EV-REP-CSo3\_CLo5-009415), and Upper Wendover Dean Farm (21011) to the immediate south (doc. ref. 1EWo3-FUS-EV-REP-CSo3\_CLo5-009417). The existence of a nearby prehistoric settlement with which this activity could be associated was postulated, however the absence of activity within Upper Wendover Dean Farm (21014) could indicate the presence of separate or migrated activity. The forthcoming assessment results of the evaluation of Upper Wendover Dean Farm (21011) will further refine the wider context of the results of this evaluation.

# 15 Evaluation of Methodology

## 15.1 Summary

15.1.1 The trial trench evaluation has demonstrated no areas of positive archaeological activity and one area of modern disturbance within the site. This information can be used in order to inform an appropriate mitigation strategy.

# 15.2 Strategy Appraisal

- The trial trench evaluation comprised 23 trenches across the site. Each measuring c.3om x 1.8m, apart from trenches 64, 65, 68 and 76 which were double-width trenches at 3.6m wide. The width was dictated by the size of the bucket on the excavator.
- 15.2.2 It was possible to excavate all the trenches, and within the trenches it was possible to investigate all of the exposed features, which consisted of a single modern feature within trench 77 contained overflow from a modern cess pit, therefore minimal recording was conducted.

15.2.3 The soil horizons throughout the stratigraphic sequence were clear and well-defined. It is very unlikely that features were not identified. The trenching methodology is judged to be a suitable method of evaluation in this landscape.

# 16 Publication and Dissemination Proposals

- 16.1.1 The authors of this report are employed by Fusion. The work reported herein was carried out under a deed placed by High speed Two (HS2) Limited and should not be relied upon as authoritative by any third party.
- 16.1.2 This report shall not be copied or reproduced in whole or in part except with the express consent of High speed Two (HS<sub>2</sub>) Limited.
- 16.1.3 A copy of the report will be provided to Fusion-JV in the first instance and then to HS2 for approval. The report will become a public document after a period not exceeding six months. Copyright of the report will remain with Fusion-JV, but will be licenced for use by the Client, and the local Historic Environment Team for planning purposes and bona fide research purposes. On completion of this project an appropriate short article summarising the work will be submitted to the Local Museum Services.

# 17 Archive Deposition

All retained finds and archaeo-environmental samples will be treated and conserved in accordance with the English Heritage guidance document A Strategy for the Care and Investigation of Finds (English Heritage, 1995) and the UKIC's document Guidelines for the Preparation of Excavation Archives for Long Term Storage (UKIC, 1990). Should no further work be required, an ordered, indexed, and internally consistent site archive will be prepared and deposited in accordance with Archaeological Archives: A Guide to Best Practice in Creation, Compilation, Transfer and Curation (Archaeological Archives Forum 2007). A summary of information from the project has been entered onto the OASIS online database of archaeological projects in Britain. A digital copy of the archive will be deposited with the Archaeological Data Service in line with their deposition guidelines (ADS 2015)

# 18 Acknowledgements

18.1.1 INFRA acknowledges the contributions made by all its staff, the help and advice provided by the Fusion HERDS team, and HS2 for commissioning the project.

# 19 References

Title	Reference
AAF 2007 Archaeological Archives: A Guide to Best Practice in Creation, Compilation, Transfer and Curation	Archaeological Archives Forum guidance

ADS 2015 Guidelines for Depositors	Archaeological Data Service guidance
CIfA 2014 Standard and guidance for archaeological field evaluation. Chartered Institute for Archaeologists	Chartered Institute for Archaeologists guidance
English Heritage 1991. The Management of Archaeological Projects 2.	Historic England guidance
English Heritage 1995. A Strategy for the Care and Investigation of Finds.	Historic England guidance
Historic England, 2015. Management of Research Projects in the Historic Environment (MORPHE): Project Managers Guide	Historic England guidance
HS2. Generic Written Scheme of Investigation: Historic Environment Research and Delivery Strategy	HS2-HS2-EV-STR-000-000015
HS2. Location Specific Written Scheme of Investigation for Trial Trench Evaluation at Rocky Lane, Small Dean South Embankment, Upper Wendover Dean Farm, Rocky Lane Cutting, Grove Farm, Small Dean north Embankment, Wellwick Farm and Ellesborough Road Hospital, Wendover Tunnel, Wendover, Buckinghamshire (AC210/W3).	1EWo3-FUS-EV-REP-CSo3_CLo6- 002529
HS2 Phase One Environmental Statement, Supplementary	ES 3.2.1.10
Environmental Statements and Geophysical Survey Reports	ES 3.5.2.10.4
	ES 3.5.2.10.5
	ES 3.5.2.10.6
	ES 3.5.2.10.7
	R2016 C252-ETM-EV-REP-020- 000263_P02
	P1C2-ETM-EV-REP-000- 000008_P01
HS2. Project Plan for Trial Trenching Evaluation at Rocky Lane, Small Dean South Embankment and Upper Wendover Dean Farm.	1EWo3-FUS-EV-REP-CSo3_CLo5- 002524
HS2, Technical Standard Specification for historic environment investigations.	HS2-HS2-EV-STD-000-000035
UKIC 1990 Guidelines for the Preparation of Excavation Archives for Long Term Storage	United Kingdom Institute for Conservation guidance

# 20 Glossary of Terms and Acronyms

The following terms have been used in this report:

#### **Terms**

Evaluation	A form of archaeological investigation involving the excavation of trenches to help determine the character and date of any discovered archaeology
Fusion	The organisation undertaking the Enabling Works for Area Central on behalf of HS2.
Generic Written Scheme of Investigation: Historic Environment Research and Delivery Strategy (GWSI: HERDS)	The framework for delivering all historic environment investigations undertaken as part of the HS2 Phase 1 programme.
HS2 – HS2 Ltd	The organisation responsible for delivery of HS2 Phase One Scheme and all terms and conditions, policies, procedures, and payments
Infra	The organisation undertaking the archaeological works for Fusion.
Location	A specific HS2 worksite or group of worksites that are being addressed as a combined historic environment investigation programme of assessment, evaluation and investigation.
Location Specific Written Scheme of Investigation (LSWSI)	Specification document assembling one or more Project Plans within an area of land defined primarily for construction programme purposes.
Project Plan	Specification document for each specific package of activity (e.g. a survey, desk-based assessment, excavation, recoding project). The plans would respond to the Specific Objectives set out in the GWSI: HERDS and be delivered within an agreed budget.
Works	The specific historic environment assessment, evaluation or investigation works at each

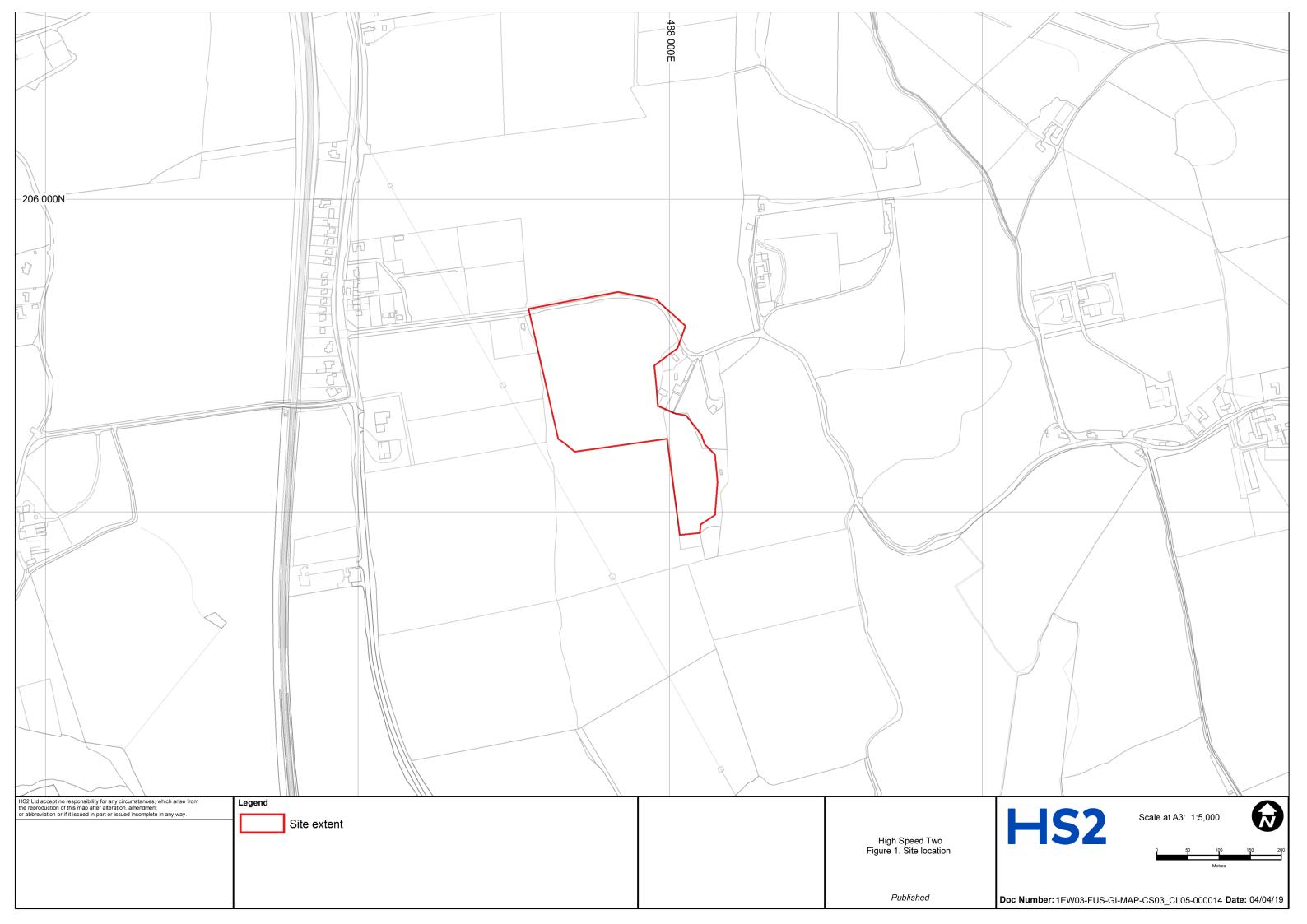
#### **Acronyms**

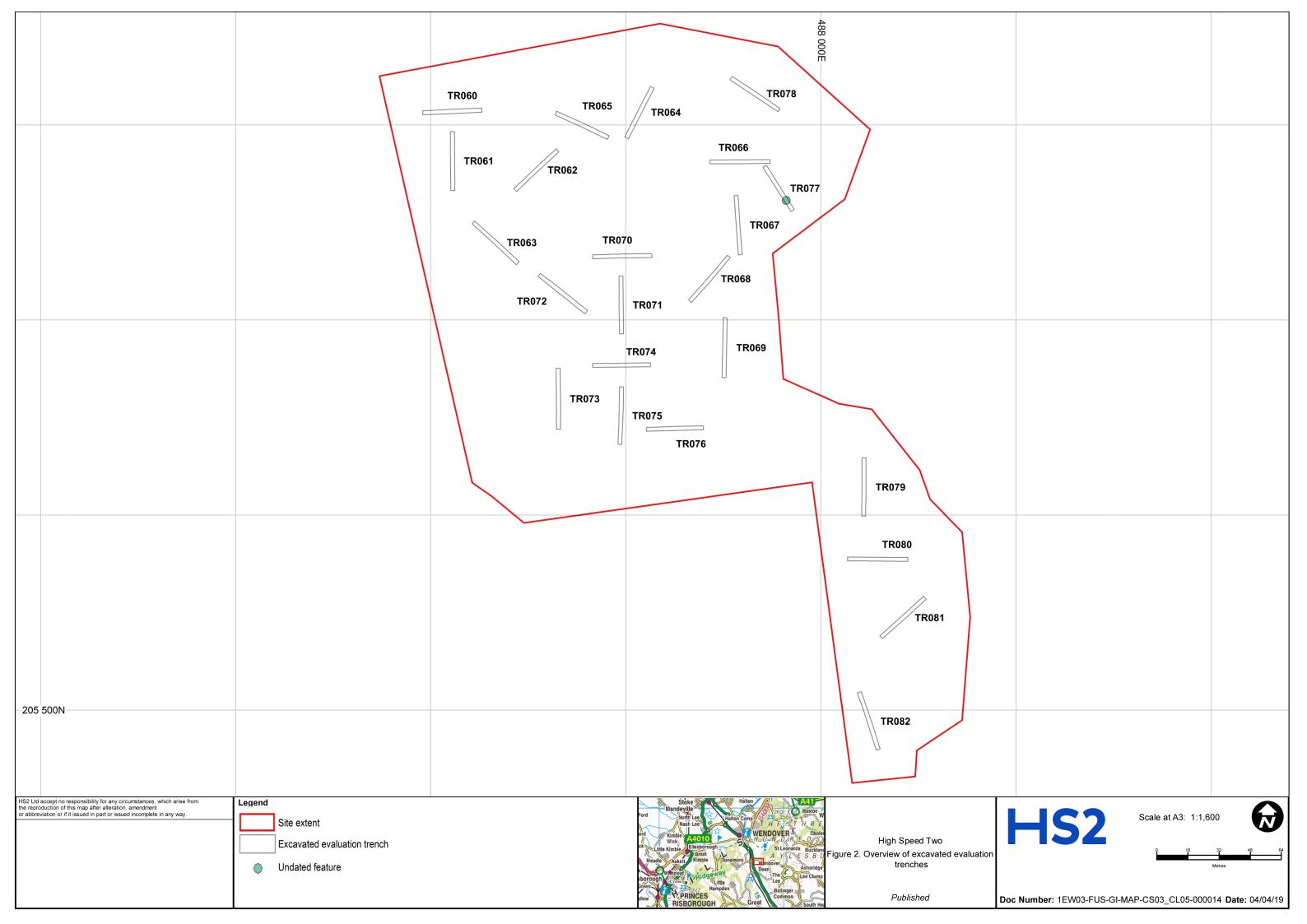
AAF	Archaeological Archives Forum
ACA	Archaeological Character Area
aOD	above Ordnance Datum
AD	Anno Domini
ANA	Archaeological Notification Area
ASZ	Archaeological Character Sub-Zone
ВС	Before Christ

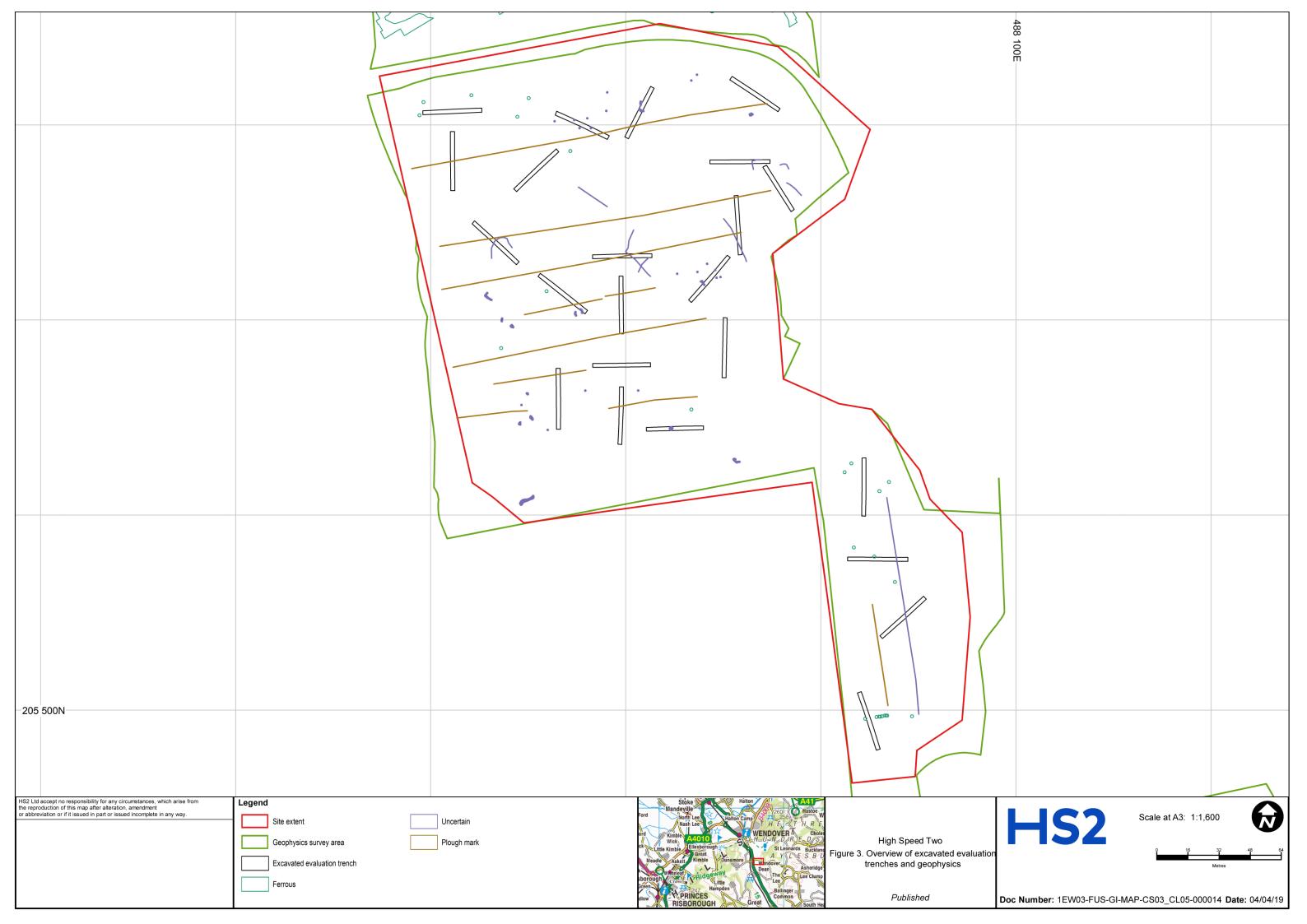
BHER	Buckinghamshire Historic Environment Record
CAT	Cable Avoidance Tool
CFA	Community Forum Area
CIfA	Chartered Institute of Archaeologists
СоСР	Code of Construction Practice
EMR	Environmental Minimum Requirements
ES	Environmental Statement
GIS	Geographic Information Systems
GNSS	Global Navigation Satellite System
ha	Hectare
HE	Historic Environment
HER	Historic Environment Record
HERDS	Historic Environment Research and Delivery Strategy
ID	Identification
JV	Joint Venture
km	Kilometre
LiDAR	Light Detection and Ranging
m	Metre
mm	Millimetre
MORPHE	Management of Research Projects in the Historic Environment
mya	Million Years Ago
NGR	National Grid Reference
No.	Number
OASIS	Online Access to the Index of Archaeological Investigations
OD	Ordnance Datum
ODN	Ordnance Survey Newlyn Datum
OS	Ordnance Survey
OSGB	Ordnance Survey Great Britain
PROW	Public Right of Way
UKIC	United Kingdom Institute for Conservation

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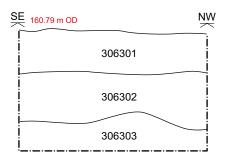
# Appendix 1 – Figures

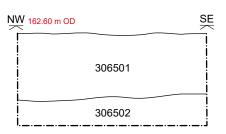


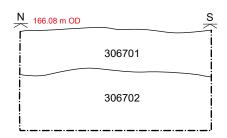


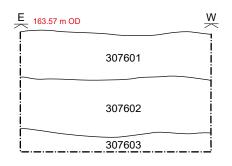


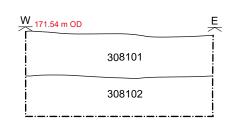
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High Speed Two Figure 4. Details of trench 77  High Speed Two Figure 4. Details of trench 77			C307705	
High Speed Two Figure 4. Details of trench 77  High Speed Two Figure 4. Details of trench 77				
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High Speed Two Figure 4. Details of trench 77  High Speed Two Figure 4. Details of trench 77				
High Speed Two Figure 4. Details of trench 77  High Speed Two Figure 4. Details of trench 77				
	HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it issued in part or issued incomplete in any way.	Undated archaeological feature	Figure 4. Details of trench 77	Metres











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Legend





Stone

High Speed Two Figure 5. Representative sections Trenches 063, 065, 067, 076 and 081

Published

Doc Number: 1EW03-FUS-GI-MAP-CS03\_CL05-000006 Date: 07/06/19

# **Appendix 2 Context Register**

Trench	Context No.	Туре	Fill of:	Filled by:	Length (m)	Width (m)	Depth (m)	Description	Interpretation
	306001	Deposit	-	-	Trench	Trench	0.38	Dark grey brown silty clay, occ. small stones. Firm.	Topsoil
	306002	Deposit	-	-	Trench	Trench	0.25	Dark orange brown silty clay. Occasional small stone. Firm.	Subsoil
060	306003	Deposit	-	-	-	-	-	Dark orange brown. Common small angular stones, silty clay. N.B. Trench shallows from west (deep) to east (shallow).	Natural geology
	306101	Deposit	-	-	Trench	Trench	0.32	Dark grey brown silty clay, firm compaction. Moderate root disturbance.	Topsoil
061	306102	Deposit	-	-	Trench	Trench	0.10	Mid orange brown silty clay, firm compaction, occasional sub-angular stones.	Subsoil
	306103	Deposit	-	-	-	-	-	Light yellow-brown silty clay. Firm compaction, frequent sub-angular stones (medium).	Natural geology
	306201	Deposit	-	-	Trench	Trench	0.26	Dark grey brown silty clay loam. Occasional small subangular chert. Firm.	Topsoil
062	306202	Deposit	-	-	Trench	Trench	0.16	Dark orange brown with areas of light yellow chalk.	Subsoil
	306203	Deposit	-	-	-	-	> 0.06	go% Dark orange with frequent small sub-angular stone. 10% light yellow chalky deposit.	Natural geology

Trench	Context No.	Туре	Fill of:	Filled by:	Length (m)	Width (m)	Depth (m)	Description	Interpretation
	306301	Deposit	-	-	Trench	Trench	0.22	Dark grey brown clayey silt, with moderate amount of small sub-angular stones. Friable.	Topsoil
063	306302	Deposit	-	-	Trench	Trench	0.28	Mid orange brown silty clay with moderate amount of stones. Moderately compact.	Subsoil
	306303	Deposit	-	-	-	-	0.18 -	Mid orange brown silty clay, stony patches of light brownish – yellow silty clay with mod stones and chalk.	Natural geology
	306401	Deposit	-	-	Trench	(double width) trench	0.35	Mid grey brown silty clay Rare small sub-angular stone. Firm.	Topsoil
064	306402	Deposit	-	-	Trench	(double width) trench	0.28	Dark orange brown silty clay. Firm. Occasional small sub-angular chert.	Subsoil
	306403	Deposit	-	-	-	-	0.10 -	Dark orange brown silty clay (55%). Light yellow white chalk inclusions (45%).	Natural geology
	306501	Deposit	-	-	Trench	(double width) trench	0.32	Dark grey brown silty clay. Occasional small angular stone. Firm.	Topsoil
065	306502	Deposit	-	-	Trench	(double width) trench	0.12	Dark orange brown silt clay. Occasional small stone, sub- angular. Firm.	Subsoil
	306503	Deposit	-	-	-	-	-	Dark orange brown, silty clay. Frequent small angular stone, lighter patches (10%).	Natural geology (no archaeology)
o66	306601	Deposit	-	-	Trench	Trench	0.25	Dark grey brown silty clay, occasional small chert. Firm.	Topsoil
	306602	Deposit	-	-	-	-	-	Light yellow white flecks	Natural geology

Trench	Context No.	Туре	Fill of:	Filled by:	Length (m)	Width (m)	Depth (m)	Description	Interpretation
								(80%). Mid orange brown (20%).	(no archaeology)
067	306701	Deposit	-	-	Trench	Trench	0.22	Dark grey brown clayey silt with occasional sub-angular stones. Friable.	Topsoil
	306702	Deposit	-	-	Trench	Trench	0.32	Mid orange brown silty clay, stony. Patches of light brownish orange silty clay with moderate amount of stones and chalk.	Subsoil
	306703	Deposit	-	-	-	-	-	Light yellow, firm compaction, occasional flecks of chalk, silty clay, grey, frequent flints.	Natural geology
o68	306801	Deposit	-	-	Trench	(double width) trench	0.20	Dark grey brown clayey silt with moderate amount of stones. Friable.	Topsoil
	306802	Deposit	-	-	Trench	(double width) trench	0.35	Mid orange brown silty clay with moderate amount of stones. Patches of light brownish yellow silty clay.	Subsoil
	306803	Deposit	-	-	-	-	-	Light yellow, firm compaction, occasional flecks of chalk, silty clay, grey, frequent flints.	Natural geology
	306901	Deposit	-	-	Trench	Trench	0.38	Dark grey brown, firm compaction, frequent small sub-rounded/sub-angular stones silty clay.	Topsoil
069	306902	Deposit	-	-	Trench	Trench	0.36	Mid orange brown, firm compaction, occasional small sub-angular/sub-rounded stones, silty clay.	Subsoil
	306903	Deposit	-			-	-	Light yellow, firm	Natural geology

Trench	Context No.	Туре	Fill of:	Filled by:	Length (m)	Width (m)	Depth (m)	Description	Interpretation
								compaction, occasional flecks of chalk, silty clay, grey, frequent flints.	
	307001	Deposit	-	-	Trench	Trench	0.37	Mid grey brown, silty clay loam, firm to friable. Rare subangular stone.	Topsoil
070	307002	Deposit	-	-	Trench	Trench	0.70	Dark orange brown silty clay. Light yellow chalk fragments moderately sorted patches.	Subsoil
	307003	Deposit	-	-	-	-	-	Light yellow, firm compaction, occasional flecks of chalk, silty clay, grey, frequent flints.	Natural geology
	307101	Deposit	-	-	Trench	Trench	0.26	Dark grey brown, clayey silt. Moderate amount of stones. Friable.	Topsoil
071	307102	Deposit	-	-	Trench	Trench	0.40	Mid orange brown silty clay. Moderate amount of sub- angular stones. Moderately compact.	Subsoil
	307103	Deposit	-	-	-	-	0.1 -	Orange brown clay, stony patches of light brownish-yellow, with occasional stones and mod chalk.	Natural geology
	307201	Deposit	-	-	Trench	Trench	0.30	Dark grey brown, firm compaction silty clay. Moderate root disturbance.	Topsoil
072	307202	Deposit	-	-	Trench	Trench	0.24	Mid orange brown firm compaction silty clay. Occasional sub-rounded and sub-angular stones.	Subsoil
	307203	Deposit	-	-	-	-	-	Light yellow-grey, firm compaction. Occasional	Natural geology

Trench	Context No.	Туре	Fill of:	Filled by:	Length (m)	Width (m)	Depth (m)	Description	Interpretation
								chalk flecks, frequent medium flints.	
	307301	Deposit	-	-	Trench	Trench	0.26	Dark grey brown, silty clay. Firm, moderate root disturbance.	Topsoil
073	307302	Deposit	-	-	Trench	Trench	0.10	Mid grey brown silty clay. Firm, occasional sub-angular stones.	Subsoil
	307303	Deposit	-	-	-	-	-	Light grey brown silt clay. Occasional chalk flecks and small stones.	Natural geology
	307401	Deposit	-	-	Trench	Trench	0.24	Dark grey brown silty clay, firm compaction, moderate root disturbance.	Topsoil
074	307402	Deposit	-	-	Trench	Trench	0.08	Mid orange brown silty clay. Firm compaction. Frequent inclusions of small subrounded, sub-angular stones.	Subsoil
	307403	Deposit	-	-	-	-	-	Light yellow grey silty clay. Firm compaction, frequent flints, occasional chalk flecks.	Natural geology
	307501	Deposit	-	-	Trench	Trench	0.34	Dark grey brown silty clay, firm compaction, moderate root disturbance.	Topsoil
075	307502	Deposit	-	-	Trench	Trench	0.10	Mid orange brown silty clay. Firm compaction. Occasional small sub- rounded, sub-angular stones.	Subsoil
	307503	Deposit	-	-	-	-	-	Light yellow grey silty clay. Firm compaction, frequent flints & pebbles, occasional	Natural geology

Trench	Context No.	Туре	Fill of:	Filled by:	Length (m)	Width (m)	Depth (m)	Description	Interpretation
								chalk flecks.	
	307601	Deposit	-	-	Trench	(double width) trench	0.24	Dark grey brown silty clay, firm compaction, moderate root disturbance.	Topsoil
076	307602	Deposit	-	-	Trench	(double width) trench	0.30	Mid orange brown silty clay. Firm compaction. Frequent sub-rounded, sub-angular stones.	Subsoil
	307603	Deposit	-	-	-	-	-	Light yellow-brown clay silt. Firm compaction, frequent pebbles & grit, medium flints.	Natural (no archaeology)
	307701	Deposit	-	-	Trench	Trench	0.30	Dark grey brown silty clay loam.	Topsoil
	307702	Deposit	-	-	Trench	Trench	0.35	Dark orange brown silty clay. Light yellow brown, chalk fragments.	Subsoil
	307703	Deposit	-	-	-	-	-	Light yellow, white chalky fragments.	Natural geology
077	307704	Deposit	[307705]	-	4.25	> 1.8	-	Mix of _ redeposited clay, dark brown with dark brown, black silty organic clay, mid red brown. Frequent small subangular chalk, rare medium subangular chalk.	Mixed deposit of a modern organic material on NW side and redeposited natural material comprising 90% of fill.
	307705	Cut	-	(307704)	4.25	> 1.8	-	Steep sided in section, not excavated to base.	Modern intrusion cutting topsoil into natural.
078	307801	Deposit	-	-	Trench	Trench	0.22	Dark grey brown silty clay loam. Rare inclusions.	Topsoil

Trench	Context No.	Туре	Fill of:	Filled by:	Length (m)	Width (m)	Depth (m)	Description	Interpretation
	307802	Deposit	-	-	Trench	Trench	0.10	Light yellow/white fragmented chalk, angular fragments (85%). Patches mid orange brown (15%).	Subsoil
	307803	Deposit	-	-	-	-	-	Light yellow grey silty clay. Firm compaction, frequent flints, occasional chalk flecks.	Natural geology
	307901	Deposit	-	-	Trench	Trench	0.32	Dark grey brown silty clay, firm compaction, moderate root disturbance.	Topsoil
079	307902	Deposit	-	-	Trench	Trench	0.08	Mid grey brown silty clay. Firm compaction. Occasional small subangular stones.	Subsoil
	307903	Deposit	-	-	-	-	-	Light grey white silty clay. Firm compaction, moderate sub-angular flints.	Natural geology
	308001	Deposit	-	-	Trench	Trench	0.22	Dark grey brown silty clay, firm compaction, moderate root disturbance.	Topsoil
080	308002	Deposit	-	-	Trench	Trench	0.12	Mid orange brown silty clay. Firm compaction. Occasional small subangular stones.	Subsoil
	308003	Deposit	-	-	-	-	-	Light grey white silty clay. Firm compaction, moderate medium sub-angular stones and chalk flecks.	Natural geology
081	308101	Deposit	-	-	Trench	Trench	0.24	Dark grey brown silty clay. Occasional inclusions.	Topsoil
-	308103	Deposit	-	-	-	-	-	Distinct banded natural with light grey white and mid	Natural geology

Trench	Context No.	Туре	Fill of:	Filled by:	Length (m)	Width (m)	Depth (m)	Description	Interpretation
								orange grey.	
	308201	Deposit	-	-	Trench	Trench	0.35	Dark grey brown silty clay loam. Rare inclusions.	Topsoil
082	308203	Deposit	-	-	-	-	-	Mid yellow brown bands with moderately well sorted white light chalky bands.	Natural geology

Revision: Co2

# Appendix 3 – OASIS Form

# **OASIS DATA COLLECTION FORM: England**

#### **List of Projects**

#### Main

This is the main page of the OASIS form, the form is split into sections as listed below.

You can fill as much or as little of each section in at any one time. Once you have filled in a section completely, please tick the completed box at the bottom of that section. The form will then check to see that all the mandatory fields (marked with a \*) have been completed. If this is the case it will return to this page, if not it will ask you complete the missing fields.

There are some fields that must be filled in: the project name, the location and your name and email address.

We would like to remind you that any personal information provided in an OASIS form, and associated files, is intended for online publication unless otherwise stated. It is your responsibility to make sure that in completing the OASIS form you are adhering to General Data Protection Regulation (2018).

Please note: the form entries are only saved when the Save record has been pressed. If you leave the form inactive for over 30 minutes any entries will be lost, this is to retain the security of your username and password.

#### OASIS ID: hs2infra1-348183

Project details

Add or edit entries

Project name

Upper Wendover Dean Farm C21014

Short description

of the project

An archaeological evaluation was undertaken on land at Upper Wendover Dean Farm (C21014), near Wendover Dean, Buckinghamshire by INFRA. A total of 23 trenches were

excavated. No archaeological features or deposits were recorded in any of the trenches

with one trench containing a modern disturbance.

Project dates

Start: 13-02-2019 End: 18-02-2019

Previous/future

work

Not known / Not known

Type of project Field evaluation

Site status None

Current Land use Cultivated Land 2 - Operations to a depth less than 0.25m

Status Incomplete

Missing Fields Monument type, Significant Finds, Fields from the project type section

Project location

Add or edit entries

Site location BUCKINGHAMSHIRE CHILTERN GREAT MISSENDEN Upper Wendover Dean Farm

Study area 5.77 Hectares

Site coordinates LL - 0 0 (decimal)

LL - 487931 00 00 N 205681 00 00 E (degrees)

Height OD / Depth Min: 158m Max: 172m

**Status** Incomplete

Project creators

Add or edit entries

Name of Organisation

**INFRA** 

1 of 2 18/04/2019, 14:20 Project brief **Fusion** originator

Project design

**INFRA** 

originator

Project **David Bonner** 

director/manager

Louis Stafford Project supervisor

Type of

**Highways Agency** 

sponsor/funding

body

Status Incomplete

Project archives

Add or edit entries

Physical Archive

Exists?

No

**Status** Incomplete

Digital Archive recipient, Digital Contents, Paper Archive recipient, Paper Contents Missing Fields

Project bibliography 1 Choose a Publication type

Add or edit entries

**Status** Incomplete

In order to complete this form you must enter your name and email address here, so that any queries about this form can be directed to you.

Name	Email address

This information may be shared with the Historic Environment Record that will validates your form or the appropriate National body. This information will be kept until the record is signed off and is complete, at which point this information is deleted from our database. You can find out more about how we look after your personal information in our Privacy Policy.

Save record

Back to Summary page

# **OASIS:**

Please e-mail Historic England for OASIS help and advice

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