

Llandyfaelog Substation

Carmarthenshire

Archaeological Evaluation Report

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Archaeological Evaluation Report

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SUMMARY

Oxford Archaeology undertook a 42-trench evaluation to inform a planning application to build an Air Insulated Substation (AIS) to the north of Llandyfaelog, Carmarthenshire. The evaluation was conducted to investigate the presence of archaeological features associated with a series of putative prehistoric or later enclosures and ring-ditches on the geophysical survey and the projected line of the Roman Via Julia Maritima road. The putative section of the road investigated runs from Carmarthen (a Roman town) due south to a possible coastal fort site at Kidwelly.

Although a combination of LiDAR and geophysical survey seemed to indicate the possible line of the Roman road through Trenches 17, 21 and 24, little evidence for it was found in the trenches. The only possible component feature is a single, wide, shallow ditch that was found in Trench 21. This was possibly a roadside ditch related to the Roman road, although this identification was inconclusive due to a lack of datable materials. The ditch contained a dark silty clay fill but yielded no artefacts or organic material to confirm its date or function. Beyond this, there was little evidence of archaeological significance. No artefacts or identifiable remains from the prehistoric, Roman, or medieval periods were identified within the site.

The desk-based assessment, geophysical survey and trial trenching together have shown that most of the fields investigated have been subject to extensive levelling, drainage and agricultural improvement over a period of several centuries, which would explain why the Roman road is so poorly preserved. These disturbances can also explain the numerous apparently significant magnetic responses on the geophysical survey plot. The historic maps show no trace at all of the Roman road. If it was indeed present on the predicted line, traces of the road line must have been largely removed prior to the earliest available map of the area (the 1844 Tithe Map). Modern mechanised farming has no doubt intensified the process of ground disturbance. Buried cables and pipe trenches criss-cross the site and represent another source of extensive modern ground disturbance.



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The project was managed for Oxford Archaeology by Stuart Foreman. The fieldwork was directed by Lee Sparks, who was supported by Harrysson Waldman, James Cross and Barnaby Rees. Survey and digitising was carried out by Harrysson Waldman and Matt Bradley. Thanks are also extended to the team of OA staff that prepared the archive under the supervision of Nicky Scott.



1 INTRODUCTION

- 1.1 Scope of work
- 1.1.1 Oxford Archaeology (OA) has been commissioned by Stantec on behalf of National Grid to undertake an archaeological evaluation of the site of a proposed Air Insulated Substation (AIS) at Llandyfaelog, Carmarthenshire, Wales.
- 1.1.2 The work was undertaken to inform the Local Planning Authority (Carmarthenshire County Council) in advance of the submission of a planning application. The archaeological evaluation trenching work was informed by a previous Historic Environment Desk Based Assessment (HEDBA; Stantec 2024) and geophysical survey (Heneb 2024) and was undertaken following consultation with Mike Ings, Archaeological Planning Manager at Heneb: The Welsh Archaeological Trust. No brief was prepared but discussions with Mike Ings established the Local Authority's requirements for work necessary to inform the planning process. This document outlines how OA implemented those requirements.
- 1.1.3 All work was carried out in accordance with The Chartered Institute for Archaeologists' Code of Conduct, Standard for archaeological field evaluation (2023) and Universal guidance for archaeological field evaluation (2023).
- 1.1.4 The documentary archive will be deposited with Carmarthenshire Museum under the accession code: CAASG: 2025.0002. As no finds were recovered, no landowner's permission to donate finds is needed. The digital archive will be deposited with Archaeology Data Service (ADS).
- 1.2 Location, topography and geology
- 1.2.1 The site lies to the east of the A484, 1.35km north of the settlement of Llandyfaelog and 6km south of Carmarthen (Fig. 1).
- 1.2.2 The area of proposed development consists of c 52ha of agricultural fields and is surrounded by further agricultural fields, interspersed with farms and woods. The site slopes gently to the south/south-east from 130m aOD in the north to c 120m aOD in the south. The nearest watercourse lies c 890m northwest of the site and c 1.3km east of the site.
- 1.2.3 The geology of the area is mapped as Milford Haven Group argillaceous rocks and sandstone and conglomerate, interbedded, sedimentary bedrock formed between 427.4 and 407.6 million years ago during the Silurian and Devonian periods, with the most southern part of the site being mapped as Senni Formation sandstone, sedimentary bedrock formed between 410.8 and 393.3 million years ago during the Devonian period.
- 1.2.4 Immediately west of the site is an area covered by superficial glacial till deposits, which do not extend into the trenching fields. These deposits formed between 116 and 11.8 thousand years ago during the Quaternary period (Fig. 6).



- 1.3 Archaeological and historical background
- 1.3.1 The archaeological and historical background of the site has been described in detail in the Historic Environment Desk Based Assessment (HEDBA, Stantec 2024). A brief summary is provided below.
- 1.4 Previous Archaeological Investigations
- 1.4.1 Ground investigation (GI) works undertaken within the Site in 2024 were conducted under archaeological monitoring. No archaeological finds or features were recorded during the works (CA 2024).
- 1.4.2 Geophysical survey of the site revealed potential ring ditches, enclosures, and the possible course of the Via Julia Maritima Roman road (Fig. 2). Linear anomalies, probably representing former field boundaries, were identified in Fields 2, 4, 5, 7, 8, 14 and 32. These features are likely to be post-medieval in date and if so, they would likely not be considered archaeologically significant.
- 1.4.3 The survey also identified several potential ring ditches across Fields 6, 7, 14, and 32. Ring ditches have two common interpretations: as either Bronze Age (2500–750 BC) burial mounds/round barrows or roundhouses of either Bronze Age or Iron Age (750 BC 43 AD) date. In this instance, it was thought more likely, prior to the trenching, that the ring ditches represented burial mounds. However, as all detected anomalies were partial arcs, this interpretation was considered tentative (Fig. 2).
- 1.4.4 Three possible enclosures were identified within the survey area. Two possible sub-rectangular enclosures were located in Fields 7–8 and Field 32. Both of these features formed diffuse anomalies, and while their shape and form were compelling, their interpretation was also considered tentative. The third enclosure was located in Field 14 and consisted of two strong curvilinear positive anomalies in the north-western part of the survey area. While the western extent of this feature was obscured by power lines, its form suggests that it could have been a prehistoric enclosure. However, this interpretation remains speculative, as the anomaly did not form a complete enclosure (Fig. 2).
- The most compelling archaeological feature identified in the survey was the Via Julia Maritima Roman road. The road, which connects the Roman forts at Carmarthen and Loughor, was apparently visible in several fields, with the most convincing evidence observed in Field 10, where positive linear anomalies were interpreted as the remains of the fossa (drainage ditches) flanking the road (Fig. 2). The faint negative anomaly between these ditches was thought to be the remains of the agger, the raised road surface. When combined with the LiDAR coverage of the scheme, the route of the road was thought to be quite clearly defined and good preservation was predicted. In the north-eastern and south-western parts of the survey area a linear depression in the LiDAR coverage was interpreted as the road line. In the central part of the survey area, there were apparent upstanding remains in Field 13, whilst the geophysical survey showed what looked like flanking ditches (fossae) and a possible raised road surface (agger) in Field 10.



- 1.5 Prehistoric Period (500,000 BC AD 43)
- Pen Celli standing stone, the remains of a standing stone of probable Bronze Age date and assumed to be of funerary and/or ritual function, is located c 1.7km east of the Site and other scheduled examples are recorded in the much wider site environs.
- 1.5.2 A possible burnt mound is recorded c 620m north-west of the Site. The feature was recorded during the pipeline works and comprised a slight mound containing charcoal rich soil and fire cracked stone. There appears to be some confusion between this burnt mound and a possible barrow recorded immediately to the north. The Dyfed Regional HER notes that the location of the possible barrow is uncertain and seems to correspond with the subsequently excavated burnt mound.
- 1.6 Romano-British Period (43 410 AD)
- 1.6.1 Heneb recorded evidence of a Roman road immediately north-east of the Site, on the projected route of the Via Julia Maritima Roman road, which ran from Carmarthen to Loughor via Kidwelly. The Royal Commission on the Ancient and Historical Monuments of Wales (RCAHMW) record for the road (423818 and 415842) notes that it was identified during aerial reconnaissance during a drought in 2018. Cropmarks, showing sections of the agger and flanking quarry pits or ditches, indicate a direct route between Carmarthen and Kidwelly. The records note that a faint parch mark could be seen with a flanking ditch at Bwlch y Gwynt. No visible evidence of the road has been detected in Llandyfaelog, although the road alignment has been confirmed in Nantllan where clear parch marks of an agger and quarry pits have been recorded. It is worth noting that the RCAHMW records for the road project more centrally through the Site, though both projections are based on known and inferred sections of the road elsewhere along its route.
- 1.6.2 An earthwork of uncertain nature and function is recorded c 480m northeast of the Site and is noted to be of interest by the Dyfed Regional HER given its proximity to the Roman road, although no further information is available. No evidence of any earthwork is detectable on the LiDAR coverage of the Site, though subtle earthworks can be hard to distinguish using 2m resolution LiDAR. Whilst no earthwork was visible on the available LiDAR data from Data Map Wales, which was limited to 2m resolution, the online data viewer shows an earthwork. The reason for this discrepancy remains unclear. A possible linear feature can be seen traversing the Site on a broadly north-east/south-west alignment on an APU aerial photograph of 1955. The linear feature corresponds with the earthwork from the online data viewer. Given that the feature is cut by later field boundaries as well as the Pontyates to Bancyfelin Gas Pipeline, which can also be seen on DSM LiDAR coverage of the Site, the evidence indicates that this feature represents the remains of the Via Julia Maritima Roman road. A series of trial pits were monitored in the vicinity of the cropmark and no archaeological remains were observed. However, the test pits were neither targeted nor sufficiently thorough to discount the potential for associated archaeological remains.
- During the 2nd century AD the Romans founded a town at Carmarthen, which was deserted by the early 5th century AD. The Site is likely to have



formed part of the agricultural hinterland of the town at Carmarthen during this period. The Rural Settlement of Roman Britain (Allen *et al.* 2015) does not record any excavated Romano-British sites (eg villas, farmsteads or field systems) within the immediate vicinity of the Site, with the closest record comprising a road between Carmarthen and Pontarddulais to the southeast, which very broadly aligns with the route of the B4306, though in places the two converge.

- 1.7 Medieval Period (AD 410 1540)
- 1.7.1 No medieval sites or finds have been recorded from within the site.
- 1.7.2 The Dyfed Regional HER records two medieval sites within the study area. One record relates to the site of an extra parochial church of presumed medieval date recorded c 1km south-east of the Site, though the actual location of the church is unknown, and the evidence is documentary only. The second record, also based on place name evidence, is for church lands immediately west of the Site. The Grade II listed Church of St Maelog, located c 905m south of the Site, has medieval origins, having first been mentioned in 1139. The settlement of Llandyfaelog, surrounding the church, may have origins in this period.
- 1.7.3 The town of Carmarthen (c 6km north of the Site) was, during this period, the largest and most important town and port in Wales. Having started as a small urban settlement, which would later be called 'Old Carmarthen', by the early 12th century 'New Carmarthen' an Anglo-Norman town had been established. The town prospered: a priory and friary were founded, and town defences were established. As in the Romano-British period, the Site would have once again probably formed part of the agricultural hinterland of the town of Carmarthen, as well as the settlement at Llandyfaelog, during this period. There are no detectable earthwork remains indicating such use (eg plough furrows), in the LiDAR coverage of the Site, but the potential for buried remains associated with such activity, such as infilled furrows and drainage/boundary ditches, cannot be discounted.
- 1.8 Post-Medieval Period (AD 1540 1901)
- Three records fall within the Site, including two records in the north of the Site relating to place name evidence ('llan') indicative of former church lands. Tithe mapping indicates that these glebe lands were not associated with the Grade II listed Church of St Maelog. A disused quarry of possible postmedieval date is recorded in the south of the Site, having been noted on 19th-century Ordnance survey mapping as an 'old quarry'. Earthwork remains of these features are evident on LiDAR. The mapped geological deposits or till and Senni formation may have been extracted for aggregate. The route of the A484, immediately west of the Site was utilised as a toll road between the River Twyi at Carmarthen to Kidwelly during this period.
- 1.8.2 Heneb records demonstrate a primarily agricultural use of the Site environs, with multiple farmsteads scattered across the study area and further possible church glebe lands. Other agricultural records include those for field boundaries as well as two pounds and a cow shed. Local industry is largely represented by quarrying, with two further sites in addition to that noted



above, though a kiln and blacksmiths are also recorded and would have been characteristic industry of a rural settlement in this period. The remaining records are largely for cottages and dwellings as well as local infrastructure such as wells, sluices and milestones.

2 AIMS AND METHODOLOGY

- 2.1 Aims
- 2.1.1 The general aims of the evaluation were to determine and understand the date, nature, function and character of the archaeological remains present within the site and their cultural and environmental settings, and to help inform any further mitigation works required.
- 2.1.2 The specific aims and objectives were as follows:
 - i. To identify the nature, character, extent and possible date of any archaeological sites and/or features within the Site
 - ii. To assess the survival, quality, condition and significance of any archaeological remains
 - iii. To ensure the preservation by record of all archaeological remains revealed during the course of the further archaeological work; and
 - iv. To prepare an appropriate archaeological archive including the treatment and preservation of any artefacts
- 2.2 Research Framework
- 2.2.1 The evaluation took place within Carmarthenshire and may contribute to the goals of Regional Research Frameworks relevant to this area.
- A Research Framework for the Archaeology of Wales has been established and was last refreshed in 2017, although draft documents relating to a 2022 review are available.
- 2.2.3 Research themes identified in the 2022 review that may be relevant to this programme of archaeological evaluation include:
 - Improving and refining chronology in 1st millennium BC Wales;
- Given the location of the site a few miles south of Carmarthen along the line of a Roman road, the Roman period research objectives for South-West Wales are particularly relevant. The following regional weaknesses in the archaeological record have been identified:
 - 'There is a lack of understanding as to the nature and extent of Roman influence within the rural context. It is not clear whether this is because of insufficient data or a failure to explore the potential of what is available.'
 - The role of the native elite as advocates of Romanisation is unclear. Social organisation within the local population has yet to be clarified.' Roman roads are often a focus for human burial and burials (where soil conditions permit preservation) and are rich sources of information on status and social organisation.



- 'The degree to which Roman material culture penetrated this remote part of the province has not been established. The poverty of the region may not have been taken into account. The chronology of occupation remains unresolved.'
- 'Outside Carmarthen excavation has largely focused on evidence of military occupation. With the exception of the recent work near Wolfs Castle civilian and native sites have not been investigated.'
- 'Establishing the chronology, function and significance of the numerous small rectilinear enclosures is essential to our understanding of this period.'

2.3 Methodology

- The evaluation comprised 42 trenches, each 40m long and 1.5m wide. They were positioned to provide as even a coverage of the site as possible, whilst also targeting various geophysical and LiDAR anomalies and avoiding services and ecological constraints (Fig. 2). As a result of late amendments to the trenching scope the trenches are numbered from 1 to 46. Trenches 1, 2, 43 and 44 were cancelled. Trenches 36 and 37 were moved from their original position, also with the agreement of Heneb, to allow for a 30m diameter exclusion zone from a badger sett.
- 2.3.2 The trenches were excavated using two JCB 3CX wheeled mechanical excavators fitted with toothless buckets under the direct supervision of an archaeologist. The exposed surface of each trench was then sufficiently cleaned to establish the presence/absence of archaeological remains. All archaeological remains were then excavated and recorded as specified in the WSI for the project.

3 RESULTS

- 3.1 Introduction and presentation of results
- 3.1.1 The results of the evaluation are presented below and include a stratigraphic description of the trenches that contained features. The full details of all trenches with dimensions and depths of all deposits can be found in Appendix A. No artefacts or environmental samples were recovered.
- 3.2 General soil and ground conditions
- 3.2.1 The soil sequence in the trenches was relatively uniform with a shallow sequence of subsoil and topsoil directly overlying the natural geology, which comprised patchy weathered sandy clay and gravel in the majority of the trenches. Plates 1 to 12 are a selection of trench record photos intended to illustrate the range of geology, site conditions and potential features present in the trenches. Plates 12-14 show sections dug by hand through archaeological features.
- 3.2.2 Ground conditions throughout the evaluation were generally good, and the site remained largely dry throughout. Archaeological features, where present, were easy to identify against the underlying natural geology.



- 3.3 General distribution of archaeological deposits
- Trenches 17, 18, 21, 22, 24 and 42 (Fig. 3) were all positioned to directly investigate the projected line of the Julia Maritima Roman road. Of these, only Trench 21 revealed any archaeological features at all. The others came down onto bedrock geology at shallow depths, with no visible archaeological features or deposits. A few linear features were recorded and investigated but proved to either geological features such as periglacial scarring or recent agricultural features visible in the topsoil.
- The following sections provide the most likely explanations for various apparent archaeological features in the geophysical survey, arranged by field in the same geographical order as used in the geophysical survey report (Heneb 2024). Field 31 was not trenched.
- 3.4 Field 32
- No archaeology at all was found in Trenches 3, 4, 5 or 6, all located in Field 32. The survey in this field recorded a possible rectangular ditched enclosure, response 32 (1) and 32 (2-9) all of which broadly followed the same alignment as the surrounding modern field system and are probably best explained as agricultural features in the topsoil. Two putative partial ring ditches, responses 32-(10-11), are not at all clearly defined and as noted in the report, could equally result from fluctuations in background geology.
- 3.5 Field **14**
- This field included Trenches 7, 8, 9, 10 and 11, in which no features at all were visible. Geophysical responses 14 (1-5) result from the adjacent electrical cables and are not archaeologically significant. Response 14 (6) was a very faint linear anomaly which is most likely an agricultural drainage feature. Response 14 (7 and 8) was interpreted as a potentially significant enclosure. However, the features look typical of agricultural disturbances elsewhere on the site. In the absence of any corresponding features in the trenches they are not considered archaeologically significant. Responses 14 (9-13) all consisted of faint, mostly positive, curvilinear responses that form arcs, appearing to form incomplete circles with a diameter of less than 20 m. The survey report acknowledged that their interpretation as roundhouses is tenuous and they could equally be explained by variations in the geology or agricultural activity.
- 3.6 Field 1
- 3.6.1 This field included Trenches 12 and 14 of which Trench 12 was the only one to contain features. Trench 14 was entirely devoid of features. None of the magnetic responses noted in this field were thought to be archaeological.
- Trench 12 contained two linear features (Fig. 7, Sections 1200 and 1201; Plates 12 and 13). The north-south aligned linear (1203), appears to have been filled with a gravel deposit derived from the weathered bedrock. Linear feature 1205 is visible on the geophysical survey plot. It is aligned NE-SW and contains a single dark grey-brown silty clay fill. These features are probably both naturally formed periglacial scars.



- 3.7 Fields 11 and 12
- 3.7.1 This field contained no trenches. None of the magnetic responses recorded were thought to be archaeologically significant.
- 3.8 Field 13
- Trench 17 was the only trench dug in Field 13. None of the magnetic responses recorded in this field were thought to be archaeologically significant. Response 13(2) is the projected line of the Via Julia Maritima Roman Road, as detected faintly on the lidar plot, but no sign of the road could be discerned on the geophysical survey plot or in Trench 17.
- 3.9 Field 10
- Response 10(7) is a pair of positive north-east to south-west aligned linear features approximately 8m apart. This represents the clearest section of the Julia Maritima Roman road on the geophysical survey. In contrast the road is not visible in the lidar data in this section. The response was investigated by Trench 42, but no archaeological features or upstanding earthworks were visible. That was the only trench to be dug in this field, due in large part to a junction of buried modern service trenches.
- 3.10 Field 42
- None of the magnetic responses in Field 42 were thought to be archaeologically significant and no trenches were dug.
- 3.11 Field 9
- Response 9(4) marks the location where the Via Julia Maritima road is thought to run. It is not particularly identifiable on the geophysical survey plot within this field and no other archaeologically significant magnetic responses were present. No trenches were dug in this field.
- 3.12 Field 38
- Nether of the magnetic responses in Field 38 were archaeologically significant and no trenches were dug.
- 3.13 Field 7
- Trenches 33, 34, 45 and 46 were dug in this field, none of which revealed any archaeological features. Trench 46 contained evidence for animal burrowing and tree rooting in the form of an irregular tree-throw hole that contained a brown sandy-silt fill.
- A group of geophysical anomalies in Field 7 coincided with outcrops of solid bedrock geology and are not archaeologically significant. The geophysical survey report acknowledges that the potentially archaeological anomalies in this field are most likely the result of geological banding. Response 7(6), a possible ring-ditch is one such feature. Response 7(7), interpreted as a possible track, coincides with a ridge of solid bedrock running through the middle of Trench 33. Response 7(1) was interpreted as a possible ditch that seemed to continue into Field 8. This feature is most likely an infilled



drainage ditch within the topsoil. Other magnetic anomalies in Field 7 were clearly modern, related to the Pontiets to Bancyfelin Gas Pipeline.

3.14 Field 8

3.14.1 No trenches were dug in Field 8 and no archaeologically significant magnetic responses were identified either. Response 8(1) is evidence for post-medieval or modern agricultural earthworks to improve the pasture by levelling the ground. Response 8(2) conforms to a post-medieval field boundary seen in the 1844 Tithe map and 1st edition OS mapping of the area. By the 2nd edition OS mapping, the field boundary had moved to its present location (Heneb 2024).

3,15 Field 5

- Trenches 39, 40 and 41 were excavated in this field, of which Trench 39 was the only one to contain a feature. Responses 5(3) and 5(4) are probable post-medieval field boundaries, although no trace of 5(4) was found in Trench 40. It is likely that the features are confined to the topsoil.
- Trench 39 contained a small east-west aligned gully, probably a modern drainage feature (Fig 7 Section 3900, Plate 16). It contained a dark black-grey silty clay fill that appeared similar to the topsoil and is probably recent in date.
- 3.16 Field 8
- No trenches were dug in Field 8. Responses 8(1) and 8(3) appear to be similar to adjacent response 7(1) in Field 7 which were not visible as features in Trench 45 and are probably the result of geological banding or agricultural drainage features in the topsoil.
- 3.17 Field 6
- This field included Trenches 27, 28, 29, 30, 31 and 33. Of these only Trench 30 contained any features, a very shallow east-west aligned gully which does correspond with a feature on the geophysical survey and is probably a post-medieval or modern drainage feature (Fig. 7 Section 30, Plates 8 and 15). The geophysical survey includes an array of possible features some of which are clearly parallel geological bands or cultivation marks, response 6(1). Responses 6(2, 3 and 4) are probable post-medieval field boundaries. Given the lack of features in most trenches, remains of the boundaries must be largely confined to the topsoil.
- Potentially significant responses in Field 6 include response 6 (8-9) and 6 (10) which were interpreted as possible prehistoric ring-ditches, although the report acknowledges that the interpretation is very tenuous and they could equally result from geological banding. All were very poorly defined and obscured by the parallel geological banding or cultivation marks which are very pronounced in this field. Given the absence of features in the trenches they are not considered archaeologically significant.



3.18 Field 2

- 3.18.1 Trenches 13, 18, 19, 20, 21, 22 and 23 were excavated in this field. One wide shallow ditch, possibly relating to the Via Julia Maritima Roman road, was found in Trench 21 in Field 2 (Fig. 5, Fig. 7 Section 2100, Plates 6 and 14). The ditch was clearly visible as a linear soil mark during machine excavation of the trench. It contained a single, dark reddish-brown silty clay fill that contained no artefacts or organic traces. No soil sample was taken due to the shallow, sterile and inorganic nature of the fill. The north-south alignment of the feature coincides with the projected line of the Roman road, but it did not produce any dating evidence. The same trench contained some shallow irregular discreet features interpreted as tree-throw holes or animal burrows.
- 3.18.2 Trench 23 contained two irregular features (2303 and 2305) that were filled with a black-grey clayey sand. Both features were probably the result of animal burrowing (Fig. 7 Section 2300, 2301).
- 3.18.3 Geophysical responses in Field 2 included 2(1 -4) which were not archaeologically significant. Response 2(5) corresponded with a known post-medieval field boundary. Response 2(6) was interpreted as a probable post-medieval boundary although not known from historic maps. Response 2(7) was the projected line of the Julia Maritima Roman Road. A very faint positive anomaly corresponded with the road line but would only be recognised as such with prior knowledge of the road.
- 3.19 Field 3
- Trench 24 was the only one excavated in this field. It was also placed to investigate the projected line of the Roman road, Response 3(4), but no buried features or earthworks were found. A very faint positive anomaly corresponded with the road line could be seen on the survey plot but would only be recognised as such with prior knowledge of the road. Responses 3(1, 2 and 3) were modern features of no archaeological significance.
- 3.20 Field 61
- 3.20.1 The geophysical survey recorded no archaeologically significant magnetic responses in this field and no trenches were excavated.
- 3.21 Field 4
- 3.21.1 Trenches 25 and 26 were excavated in this field, neither of which revealed any features. The magnetic responses in this field were limited to geological banding that could result from agricultural practises 4(1-2). Response 4 (3) could be a quarry pit.
- 3.22 Potential cut features investigated by hand
- 3.22.1 Cut features were recorded and investigated by hand in Trenches 12, 21, 23, 30, 39 and 46, as described by field above, although for the most part these are interpreted as either the result of post-medieval or modern land improvement and drainage, or geological features interpreted as periglacial scars and tree-throws. Small groups of irregular discreet features in Trench 21 and 23 are interpreted as probable infilled animal burrows.



- 3.23 Finds summary
- 3.23.1 No artefacts were recovered during the evaluation.
- 3.24 Environmental summary
- 3.24.1 No soil samples were recovered during the evaluation.

4 DISCUSSION

- 4.1 Reliability of field investigation
- The trenching layout provided good coverage of the site and also enabled the geophysical and LiDAR anomalies to be tested. The archaeological remains were found to be heavily truncated and disturbed by agricultural earthworks. Where present, features were easy to identify and record. Overall, the results of the investigation are considered to be a reliable indicator of the archaeological remains surviving on the site, although much has probably been lost due to extensive pasture improvement groundworks. The geophysical survey suggests that the extent of disturbance is variable between fields. Localised patches of survival may be expected in fields that have been subject to least disturbance. None of the fields showed any discernible sign of upstanding earthworks.
- 4.2 Evaluation objectives and results
- 4.2.1 One wide shallow ditch, possibly relating to the Via Julia Maritima Roman road, was found in Trench 21. It contained a single, dark reddish-brown silty clay fill that produced no artefacts or organic traces.
- 4.2.2 Otherwise, very little evidence for surviving archaeological remains was uncovered. No evidence for prehistoric, Roman or medieval remains was found within the study area. The 2m LiDAR analysis carried for the study area did not show any trace of the road (Heneb 2024, Fig. 8). However, Datamap Wales lidar coverage of the site (Heneb 2024, Plate 3) does appear to show a faint earthwork corresponding with the projected road line on a north-east to south-west alignment through Trenches 17, 21 and 24. This may suggest that the earthwork is very slight. The poor preservation of the road and absence of any associated datable features means that the regional research objectives outlined above cannot be addressed.
- 4.2.3 A small number of other features were investigated across the site that were shown to be either geological features or widely dispersed individual, undated ditches, probably post-medieval or modern in date, that are probably agricultural drainage or cultivation features of low significance.
- 4.2.4 The somewhat variable weathered sandy clay and gravel natural geology encountered in most trenches is consistent with the weathered upper surface of the Milford Haven Group sedimentary bedrock. While glacial till deposits are mapped by BGS in the areas immediately adjacent (Fig. 6), no superficial deposits are mapped within the fields which were evaluated. In the south-eastern field (Field 7) a group of geophysical anomalies interpreted in the geophysical survey report as potentially archaeological were found to correlate with outcropping ridges of solid Sandstone bedrock.



The BGS map shows a change from sedimentary bedrock to sandstone in that field (Fig. 6). There were variations in the depth of the subsoil which correlated with the undulating topography of the field. However, there was no indication of thickened soil sequences correlating with the projected line of the Julia Maritima Roman road.

4.2.5 Many of the magnetic anomalies interpreted as potentially archaeological in the geophysical survey report are now thought to be features in the topsoil and subsoil resulting from levelling and drainage of the pasture fields in the post-medieval or modern periods, probably including ploughing of most fields. Most fields show evidence for closely spaced ridged magnetic anomalies that look like cultivation marks and follow the same alignment as the modern field boundaries (Fields 6, 7, 8, 9, 10, 13, 14, 32 and 42). The extent and character of disturbance varies considerably between fields, probably due to different landowners applying different improvement methods and/or due to differing ground conditions. Two placenames on the 1844 Tithe Map indicate that one field in the northern part of the site (Tithe Map Field 629, "Peat Field") and one in the south-east (Tithe Map Field 674, "Peat Pond") once included peat deposits, which have been drained in the period since (Heneb 2024). A former quarry is recorded in the southern part of the site (Heneb 2024, reference 40846). Evidence for bands of disturbance on the geophysical survey is notably absent in Field 38. If most of the fields investigated have been subject to levelling, drainage and agricultural improvement over a period of several centuries it would explain why the Roman road is so poorly preserved. The historic maps show no trace at all of the Roman road. If it was indeed present on the predicted line, traces of the road line must have been largely removed prior to the earliest available map of the area (the 1844 Tithe Map). Modern mechanised farming has no doubt intensified the process of ground disturbance. Buried cables and pipe trenches criss-cross the site and represent another source of extensive modern ground disturbance.

4.3 Interpretation

- 4.3.1 The single ditch recorded in Trench 21 may possibly be a roadside ditch associated with the Julia Maritima Roman road. The north-south alignment of the feature coincides with the projected line of the road but, due to the poor preservation of the road within the study area, and the lack of artefactual dating evidence, it cannot be said with certainty that the feature is related to the road.
- 4.3.2 The results of this evaluation have shown that the site contains very limited surviving archaeological remains of prehistoric to Roman date or other periods. This is probably due in part to levelling and agricultural improvement of the pasture fields, evidence for which is extensive on the geophysical survey plot. No artefacts at all were recovered, which suggests that the site lies at some distance from any historic settlement focus, and/or that settlements in the area were poor in terms of material culture.





APPENDIX A TRENCH DESCRIPTIONS AND CONTEXT INVENTORY

General de								
	scription					Orientation		
Not excava	ated					Length (m)		
						Width (m)		
						Avg. depth (m)		
Context	Туре	Fill	Width	Depth	Description		Finds	Date
No.		Of	(m)	(m)				
Trench 2								
General de	scription					Orientation		
Not excava	ated					Length (m)		
						Width (m)		
						Avg. depth (m)		
Context	Туре	Fill	Width	Depth	Description		Finds	Date
No.		Of	(m)	(m)				
Trench 3						T		I
General de						Orientation		N-S
					l and subsoil overlying	Length (m)		40
the mixed	naturai g	geology	siity grave	eis.		Width (m)		1.5
	_	ı		1	T	Avg. depth (m)	1	0.35
Context	Type	Fill	Width	Depth	Description		Finds	Date
No. 300	Lavor	Of	(m)	(m) 0.22	Topsoil. Dark brown cl	avov silt		
301	Layer			0.22				
302	Layer			0.2	Subsoil. Light orangey Natural. Dark pinkish-			
302	Layer				mottles of light yellow			
	l				Thocaes of light yellow	ish orange clayey she		<u> </u>
Trench 4								
General de	scription					Orientation		E-W
Trench dev	oid of ar	chaeol	ogy. Consis	ts of topso	il and subsoil overlying	Length (m)		40
the natura	l geology	of gra	vels.			Width (m)		1.5
						Avg. depth (m)		0.35
Context	Туре	Fill	Width	Depth	Description	•	Finds	Date
No.		Of	(m)	(m)				
400	Layer			0.2	Topsoil. Mid-dark grey	clayey silt		
100	Layer			0.21	Subsoil. Light yellow-b	prown clayey silt		
401	Layer					l gravels		Ī





General de	escription					Orientation		N-S
Trench de	void of ar	chaeolo	ogy. Consis	ts of topsoi	il and subsoil overlying	Length (m)		40
the mixed	natural o	geology	of clay an	d gravels.		Width (m)		1.5
						Avg. depth (m)		0.35
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
500	Layer			0.23	Topsoil. Mid-dark brov	vn clayey silt		
501	Layer			0.2	Subsoil. Dark orange-l	brown clayey silt		
502	Layer				Natural. Dark pink-red of light greyish yellow	=		
Trench 6								
General de	escription					Orientation		NNW-
Trench de	void of ar	chaeolo	ogy. Consis	ts of topsoi	il and subsoil overlying	Length (m)		40
the natura	al mixed o	geology	of silty gr	avels.		Width (m)		1.5
					Avg. depth (m)		0.3	
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
600	Layer	01	(111)	0.12	Topsoil. Mid-dark brov	vn clavev silt		
601	Layer			0.16	Subsoil. Dark orange-l			
602	Layer			0.10	Natural. Dark pink-red			
Trench 7 General de	escription					Orientation		N-S
			oav. Consis	ts of topsoi	il and subsoil overlying	Length (m)		40
			of clay an	•	,,	Width (m)		1.5
						Avg. depth (m)		0.35
Context	Туре	Fill	Width	Depth	Description	3 1 2 1 7	Finds	Date
No.	71	Of	(m)	(m)				
700	Layer			0.15	Topsoil. Dark-brown cl	layey silt		
701	Layer			0.22	Subsoil. Light yellow-b	prown clayey silt		
702	Layer				Natural. Dark pink-red purple silty clay weatl			
Trench 8								
General de	escription					Orientation		N-S
			ogy. Consis	ts of topsoi	il and subsoil overlying	Length (m)		40
			of clay an	•	, 3	Width (m)		1.5
						Avg. depth (m)		0.35
Context	Туре	Fill	Width	Depth	Description	1 2 ,	Finds	Date
No. 800	Layer	Of	(m)	(m) 0.25	Topsoil. Mid dark-brow	yn clavev silt	+	
801	1			0.23	Subsoil. Dark orange-l		+	
001	Layer		1	0.2	Jubsuli. Dark urange-l	DIOWII Clayey SIIL		





802	Layer				Natural. Dark pink-re	ed silty clay gravels		
Trench 9								
General de	escription					Orientation		E-W
					l overlying subsoil	Length (m)		40
overlying	mixed cla	y and g	jravel bedr	ock geolog	Jy.	Width (m)		1.5
	_	ı	1	1	T	Avg. depth (m)	1	0.25
Context	Type	Fill Of	Width	Depth	Description		Finds	Date
No. 900	Layer	Oi	(m)	(m) 0.23	Topsoil. Light pink-gr	rov clavov cilt		
901	1			0.26	Subsoil. Light orange			
	Layer			0.20				
902	Layer				bedrock	ed silty clay and gravel		
Trench 10	· 							B13.47
General de	escription					Orientation		NW- SE
Trench de	void of ar	chaeolo	gy. Consis	ts of topsoi	l overlying subsoil	Length (m)		40
overlying	mixed cla	y and g	gravel geol	ogy.		Width (m)		1.5
						Avg. depth (m)		0.4
Context	Туре	Fill	Width	Depth	Description	1	Finds	Date
No.		Of	(m)	(m)				
1000	Layer			0.22	Topsoil. Light grey-re	ed clayey silt		
1001	Layer			0.67	Subsoil. Red-brown s	silty clay		
1002	Layer				Natural. Light pink-regravel/bedrock	ed silty clay with mixed		
Trench 11	<u> </u>							
General de	escription					Orientation		NW- SE
Trench de	void of ar	chaeolo	gy. Consis	ts of topsoi	l overlying subsoil	Length (m)		40
				ock geolog		Width (m)		1.5
						Avg. depth (m)		0.45
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
1100	Layer	<u> </u>	(111)	0.2	Topsoil. Light pink-gr	rey clayey silt	+	
1101	Layer			0.65	Subsoil. Red-brown s		1	
1102	Layer				Natural. Light pink-ro			
	1	I	I	1	1 gravely bearook		1	[
Trench 12	2							
General de	escription					Orientation		NW- SE
						Length (m)		40



				s of topsoil	and subsoil overlying	Width (m)		1.5
the natura	al geology	of clay	<u>′. </u>			Avg. depth (m)		0.4
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
1200	Layer	<u> </u>	()	0.2	Topsoil. Firm dark brov	vn clayey silt		
1201	Layer			0.2	Subsoil. Firm reddish b	prown with mottles of		
					light yellowish grey silt	y clay		
1202	Layer				Natural. Firm red silty	•		
					mid dark-grey silty clay		1	
1203	Cut		0.58	0.24	Ditch. Irregular linear,	_		
1204	Fill	1203	0.58	0.24	moderate-steep sides Secondary Fill. Firm, da			
1204	FIII	1203	0.56	0.24	clay, naturally silted fi			
1205	Cut		0.56	0.2	Ditch. NE-SW aligned			
					shallow sides and a co	-		
1206	Fill	1205	0.56	0.2	Secondary Fill. Dark gr	ey brown silty clay,		
					naturally silted fill of d	itch		
Trench 13	3					T		1
General d	escription					Orientation		NE-
								SW
					il and subsoil and	Length (m)		40
Colluviulli	overrying	uie iia	turar geore	ogy of clay.	•	Width (m)		1.5
		l	1	1 .	T	Avg. depth (m)	1 .	0.35
Context	Type	Fill	Width	Depth	Description		Finds	Date
No. 1300	Layer	Of	(m)	(m) 0.15	Topsoil. Dark brown cla	avov cilt		
1301	-			0.13	-		1	
1302	Layer			0.15	Subsoil. Red gravels, sl		1	
	Layer			0.15	Colluvial Layer. Firm da		1	
1303	Layer				Natural. Light brown-g	•		
					dark yellow-brown and	i light grey silty clay		
Trench 14								
General d	-					Orientation		WNW
Jeneral u	coc. iption					J. ICHICAGOTT		-ESE
Trench de	void of ar	chaeolo	gy. Consis	ts of topsoi	il overlying subsoil	Length (m)		40
overlying	clay geol	ogy.		-		Width (m)		1.5
						Avg. depth (m)		0.4
Context	Type	Fill	Width	Depth	Description	<u> </u>	Finds	Date
No.		Of	(m)	(m)	<u> </u>			
1400	Layer			0.23	Topsoil. Light grey-bro	wn clayey silt.		
1401	Layer			0.33	Subsoil. Mid red/yellow	y-brown silty clay		
1402	Layer				Natural. Brown-red cla	y geology with some		
Trench 15	•							



General d	escription					Orientation		NE-
Tronch do	void of ar	chaoole	ay Consis	ts of topsoi	il and subsoil overlying	Longth (m)		SW 40
the natura				ts or topsor	ii and subsoil overlying	Length (m)		1.5
	900.097	0. 0.0	, .			Width (m)		
<u> </u>	1 -	E.II	347 J.L	T 5	I Book to the control of the control	Avg. depth (m)	T = 1.	0.38
Context No.	Type	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
1500	Layer	Oi	(111)	0.25	Topsoil. Firm dark bro	wn clavev silt		
1501	Layer			0.15	Subsoil. Dark-grey wit			
1301	Layer			0.13	yellowish grey clay	ir mottles or light		
1502	Layer				Natural. Firm red silty	clay with mottles of		
	,				orangey brown and lig			
	•		1	1	-			I
Trench 16	5							
General d	escription					Orientation		N-S
Trench de	void of ar	chaeolo	ogy. Consis	ts of topsoi	il and subsoil overlying	Length (m)		40
the natura	al geology	of clay	/.			Width (m)		1.5
						Avg. depth (m)		0.35
Context	Туре	Fill	Width	Depth	Description	1	Finds	Date
No.		Of	(m)	(m)				
1600	Layer			0.25	Topsoil. Firm dark bro	wn clayey silt		
1601	Layer			0.1	Subsoil. Light brown-g	grey with mottles of		
					dark orangey brown s	silty clay		
1602	Layer				Natural. Firm red-bro			
					orangey brown and m	id-dark grey silty clay		
	-							
Trench 17						Ta		
General d	escription					Orientation		NW-
Trench de	void of an	chaeolo	ay Consis	ts of tonsoi	il overlying subsoil	Length (m)		SE 40
overlying				ts or topsor	il Overlying Subson	Width (m)		1.5
, ,		, 3	37					
Contact	Tura	Eill	اعلام (۱۸ <i>۱)</i>	Donth	Description	Avg. depth (m)	- Cin da	0.45
Context No.	Type	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
1700	Layer	01	(''')	(''')	Topsoil. Firm red-brow	n clavev silt		
1701	Layer			0.37	Subsoil. Light red-brow			
1702	Layer			5.57		clay with yellow sandy		
1702	Layer				patches and gravel	ciay with yellow salidy		
	1	l	1	1	T Paceries and Grater		1	<u>I</u>
Trench 18	3							
General d	escription					Orientation		NW-
								SE
Trench de	void of ar	chaeolo	gy. Consis	ts of topsoi	l overlying subsoil	Length (m)		40
overlying	clay geol	ogy.				Width (m)		1.5
, -								



Context	Туре	Fill	Width	Depth	Description		Finds	Date
No.	<u> </u>	Of	(m)	(m)				
1800	Layer			0.2	Topsoil. Dark red-brow	vn clayey silt.		
1801	Layer			0.3	Subsoil. Dark red-brow	vn silty clay		
1802	Layer				Natural. Firm pink-red	l clay with frequent		
					gravels and small pate	ches of light yellow		
					sandy clay			
Trench 19)							
General de						Orientation		NW-
50.70.a. a.								SE
Trench de	void of ar	chaeolc	gy. Consis	ts of topsoi	il and subsoil overlying	Length (m)		40
the natura	al geology	of clay	/ .			Width (m)		1.5
						Avg. depth (m)		0.35
Context	Туре	Fill	Width	Depth	Description	1	Finds	Date
No.		Of	(m)	(m)				
1900	Layer			0.15	Topsoil. Firm dark bro			
1901	Layer			0.2	Subsoil. Firm dark red	d-brown clayey silt		
1902	Layer				Natural. Firm pink-red	clayey silt and gravels		
					with mottles of light b			
					light yellow-grey silty	clay		
Trench 20						T		
General d						Orientation		N-S
					il overlying subsoil	Length (m)		40
overlying	gravel an	d bedro	ock geology	y with clay		Width (m)		1.5
			_			Avg. depth (m)	ı	0.5
Context	Type	Fill	Width	Depth	Description		Finds	Date
No.	1.	Of	(m)	(m)	T 11 D 11			
2000	Layer			0.2	Topsoil. Red-brown cla	• •		
2001	Layer			0.4		wn silty clay with some		
2002	Lavor				gravel inclusions	ad alay with anayal and		
ZUUZ	Layer				· ·	I pink-red clay with gravel and I some patches of lighter white-		
					pink clays	some pateries of lighter write-		
		I	1	<u> </u>			1	
Trench 21	• <u> </u>							
General d	escription					Orientation		E-W
Trench rev	/ealed a d	itch. Co	onsists of to	psoil overl	ying subsoil overlying	Length (m)		40
gravel and	d clay geo	logy				Width (m)		1.5
						Avg. depth (m)		0.3
Context	Туре	Fill	Width	Depth	Description	_ · · · ·	Finds	Date
No.		Of	(m)	(m)				
					_			
2100	Layer			0.15 0.25	Topsoil. Firm dark bro	wn clayey silt		



2102	Layer				Natural. Firm pink-red	d gravels with mottles		
					of light brown and or			
					clay with manganese			
2103	Cut		2.36	0.62	_	allow ditch with shallow		
					sides and a flat base			
2104	Fill	2103	2.36	0.62	Secondary Fill. Dark r	eddish brown silty clay		
Trench 2	•							
General d	_					Orientation		NW-
ocherar a	CSCHPCION					Officiation		SE
Consists o	of topsoil o	verlving	ı subsoil o	verlvina ar	avel and clay geology	Length (m)		40
		,	,	,	, 500	Width (m)		1.5
						Avg. depth (m)		0.4
<u> </u>	T_	EII	140 III	T		Avg. depth (III)	F. 1	
Context No.	Type	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
2200	Layer		, ,	0.2	Topsoil. Firm dark red	l-brown clayey silt		
2201	Layer			0.4	Subsoil. Firm dark ora	ange-red/brown silty		
					clay with some grave	·I		
2202	Layer				Natural. Firm mid pin	k-red clay with		
					frequent gravel and s	ome patches of off-		
					white/yellow			
Trench 23	3							
Trench 23						Orientation		NE-
General d	escription	opsoil o	verlving s	ubsoil whic	h overlies colluvium			NE- SW
General d	escription	opsoil o	verlying s	ubsoil whic	h overlies colluvium	Length (m)		SW 40
General d	escription	opsoil o	verlying s	ubsoil whic	h overlies colluvium	Length (m) Width (m)		SW 40 1.5
General d Trench co and natur	escription nsists of t			,		Length (m)	Finds	SW 40 1.5 0.5
General d Trench co and natur Context	escription	Fill	Width	Depth	h overlies colluvium Description	Length (m) Width (m)	Finds	SW 40 1.5
General d Trench co and natur Context No.	escription nsists of t al Type			Depth (m)	Description	Length (m) Width (m) Avg. depth (m)	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300	nsists of tal Type Layer	Fill	Width	Depth (m) 0.1	Description Topsoil. Firm dark bro	Length (m) Width (m) Avg. depth (m)	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301	rsists of tal Type Layer Layer	Fill	Width	Depth (m) 0.1 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-rec	Length (m) Width (m) Avg. depth (m) wwn clayey silt d gravels	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300	nsists of tal Type Layer	Fill	Width	Depth (m) 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r	Length (m) Width (m) Avg. depth (m) wwn clayey silt d gravels	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302	rsists of tal Type Layer Layer Layer Layer	Fill	Width	Depth (m) 0.1 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels	Length (m) Width (m) Avg. depth (m) own clayey silt d gravels mid-dark grey with	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301	rsists of tal Type Layer Layer	Fill	Width	Depth (m) 0.1 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red	Length (m) Width (m) Avg. depth (m) wwn clayey silt d gravels mid-dark grey with d silty clay gravels with	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302	rsists of tal Type Layer Layer Layer Layer	Fill	Width	Depth (m) 0.1 0.1 0.35	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro	Length (m) Width (m) Avg. depth (m) own clayey silt d gravels mid-dark grey with d silty clay gravels with own silty clay	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302	rype Layer Layer Layer Layer Layer Layer	Fill	Width (m)	Depth (m) 0.1 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro	Length (m) Width (m) Avg. depth (m) wwn clayey silt d gravels mid-dark grey with d silty clay gravels with	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302	rype Layer Layer Layer Layer Layer Layer	Fill	Width (m)	Depth (m) 0.1 0.1 0.35	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro Tree Throw. Sub-oval	Length (m) Width (m) Avg. depth (m) wun clayey silt d gravels mid-dark grey with d silty clay gravels with wun silty clay with shallow sides and	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302 2303 2304	rype Layer Layer Layer Layer Layer Cut	Fill Of	Width (m) 0.42 0.42	Depth (m) 0.1 0.1 0.35	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro Tree Throw. Sub-oval concave base Secondary Fill. Black-red	Length (m) Width (m) Avg. depth (m) wun clayey silt d gravels mid-dark grey with d silty clay gravels with wun silty clay with shallow sides and	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302 2303 2304	rype Layer Layer Layer Layer Cut Fill	Fill Of	Width (m) 0.42	Depth (m) 0.1 0.1 0.35 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro Tree Throw. Sub-oval concave base Secondary Fill. Black-red	Length (m) Width (m) Avg. depth (m) Own clayey silt d gravels mid-dark grey with d silty clay gravels with with shallow sides and grey clayey sand //irregular with shallow	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302 2303 2304 2305 2306	rype Layer Layer Layer Layer Cut Fill	Fill Of	Width (m) 0.42 0.42	Depth (m) 0.1 0.1 0.35 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro Tree Throw. Sub-oval concave base Secondary Fill. Black-r Tree Throw. Sub-oval	Length (m) Width (m) Avg. depth (m) wun clayey silt d gravels mid-dark grey with d silty clay gravels with wun silty clay with shallow sides and grey clayey sand /irregular with shallow se	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302 2303 2304 2305 2306	rype Layer Layer Layer Layer Cut Fill Cut	Fill Of	0.42 0.42 0.75	Depth (m) 0.1 0.1 0.35 0.1 0.1 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro Tree Throw. Sub-oval concave base Secondary Fill. Black-red Tree Throw. Sub-oval, sides and concave base	Length (m) Width (m) Avg. depth (m) wun clayey silt d gravels mid-dark grey with d silty clay gravels with wun silty clay with shallow sides and grey clayey sand /irregular with shallow se	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302 2303 2304 2305 2306 2307	rype Layer Layer Layer Layer Cut Fill Cut Fill	Fill Of	0.42 0.42 0.75	Depth (m) 0.1 0.1 0.35 0.1 0.1 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro Tree Throw. Sub-oval concave base Secondary Fill. Black-red Tree Throw. Sub-oval, sides and concave base	Length (m) Width (m) Avg. depth (m) wun clayey silt d gravels mid-dark grey with d silty clay gravels with wun silty clay with shallow sides and grey clayey sand /irregular with shallow se	Finds	SW 40 1.5 0.5
General d Trench co and natur Context No. 2300 2301 2302 2303 2304 2305 2306 2307 Trench 24	rype Layer Layer Layer Layer Cut Fill Cut Fill	Fill Of 2304	0.42 0.42 0.75	Depth (m) 0.1 0.1 0.35 0.1 0.1 0.1	Description Topsoil. Firm dark bro Subsoil. Firm pink-red Colluvial Layer. Firm r pink-red gravels Natural. Firm pink-red mottles of yellow-bro Tree Throw. Sub-oval concave base Secondary Fill. Black-red Tree Throw. Sub-oval, sides and concave base	Length (m) Width (m) Avg. depth (m) wun clayey silt d gravels mid-dark grey with d silty clay gravels with wun silty clay with shallow sides and grey clayey sand /irregular with shallow se	Finds	SW 40 1.5 0.5





			<i>J</i> ,	•	l overlying subsoil	Width (m)		1.5
overlying	mixed cla	y and	gravel geol	ogy		Avg. depth (m)		0.7
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
2400	Layer			0.34	Topsoil. Red-grey brov	vn clayey silt		
2401	Layer			0.5	Subsoil. Red brown silt	cy clay		
2402	Layer				Natural. Light pink-red	d clay and gravel		
Trench 25	5							
General de	escription					Orientation		NNE- SSW
Trench de	void of ar	chaeolc	av. Consis	ts of topsoi	l overlying subsoil	Length (m)		40
				some clay	• •	Width (m)		1.5
						Avg. depth (m)		0.3
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
2500	Layer	Oi	(111)	0.22	Topsoil. Light pink-bro	wn clavev silt		
2501	Layer		1	0.47	Subsoil. Red-brown gr			
2501	Layer			0.17	orange silty clay	raveis with some		
2502	Layer				Natural. Light pink-red	ed gravel with silty clay		
General d						Orientation		NNW- SSE
Trench de	void of ar	chaeolc	av. Consis	ts of topsoi	l overlying subsoil	Length (m)		40
overlying	mixed cla	y and	gravel geol	ogy.		Width (m)		1.5
						Avg. depth (m)		0.6
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
2600	Layer			0.2	Topsoil. Light pink-bro	wn clayey silt		
2601	Layer			0.3	Subsoil. Pink-brown si	lty clay		
2602	Layer				Natural. Light pink bed some patches of orang	· ·		
T 1.55								
Conoral d						Orientation		E \\/
General de		ab = - '	- C- · ·	ha of t-	il aubaail	Orientation		E-W
				il subsoil and colluvium I	Length (m)		40	
							1.5	
Context	Туре	Fill	Width	Depth	Description	Avg. depth (m)	Finds	0.5 Date
No.		Of	(m)	(m)				
2700	Layer			0.18	Topsoil. Red brown cla	yey silts		
2701	Layer			0.22	Subsoil. Brown clayey	silts		
2702	Layer	Ī	1	0.22	Colluvial Layer. light-n	منالم برميره ماميره مناهم	1	





2703	Layer				Natural. red-brown we gravels	athered silty clay with			
Trench 28	3								
General d	escription					Orientation		NW- SE	
Trench co	nsists of t	opsoil o	verlying su	ıbsoil which	n overlies natural	Length (m)		40	
		•	, 3			Width (m)		1.5	
						Avg. depth (m)		0.48	
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date	
2800	Layer	Oi	(111)	0.24	Topsoil. red-brown clay	vev silts			
2801	Layer			0.17	Subsoil. light-mid red-				
2802	Layer			0.2	Natural. red-brown/pii clay/weathered sandy	nk-brown silty			
Trench 29)								
General d						Orientation		NW- SE	
Trench devoid of archaeology. Consists of topsoil overly					l overlying subsoil	Length (m)		40	
overlying mixed bedrock and clay geology.						Width (m)		1.5	
						Avg. depth (m)		0.3	
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description	Finds			
2900	Layer		,	0.25	Topsoil. Pink-brown cla	yey silt			
2901	Layer			0.4	Subsoil. Orangey red si	Ity clay			
2902	Layer				Natural. Light pink-red bedrock				
)								
	escrintion					Orientation		N-S	
General d		aully (Consists of	topsoil ove	erlvina subsoil	Orientation		N-S 40	
General d Trench re	vealed on	-	Consists of		erlying subsoil	Length (m)		40	
General d Trench re	vealed on	-			erlying subsoil	Length (m) Width (m)		40 1.5	
General d Trench re overlying Context	vealed on	and som	e silty clay	/ geology Depth	erlying subsoil Description	Length (m)	Finds	40	
General d Trench re overlying Context No.	vealed one bedrock a	and som	ne silty clay	Depth (m)	Description	Length (m) Width (m) Avg. depth (m)	Finds	40 1.5 0.4	
General d Trench re overlying Context No. 3000	tealed one bedrock a Type Layer	and som	e silty clay	Depth (m) 0.2	Description Topsoil. Pink-brown cla	Length (m) Width (m) Avg. depth (m) yey silt	Finds	40 1.5 0.4	
General d Trench re overlying Context No.	vealed one bedrock a	and som	e silty clay	Depth (m)	Description Topsoil. Pink-brown cla Subsoil. Light orangey Natural. Light pink-rec	Length (m) Width (m) Avg. depth (m) yey silt red/brown silty clay	Finds	40 1.5 0.4	
General d Trench re overlying Context No. 3000	Type Layer Layer	and som	e silty clay	Depth (m) 0.2	Description Topsoil. Pink-brown cla Subsoil. Light orangey	Length (m) Width (m) Avg. depth (m) Eyey silt red/brown silty clay I bedrock with some inage gully with	Finds	40 1.5 0.4	



Trench 3	L							
General d	escription					Orientation		NW- SE
Trench de	void of ar	chaeolo	gy. Consis	ts of topsoi	l overlying subsoil	Length (m)		40
overlying	mixed gra	avel and	d some cla	y geology.		Width (m)		1.5
						Avg. depth (m)		0.8
Context	Туре	Fill	Width	Depth	Description		Finds	Date
No.		Of	(m)	(m)				
3100	Layer			0.27	Topsoil. Light red-brow	wn clayey silt		
3101	Layer			0.6	Subsoil. Orangey red s	silty clay with some		
3102	Layer				Natural. Light pink-red some patches of clay	d bedrock/gravel with		
Trench 32	2							
General d	escription					Orientation		N-S
Trench de	void of ar	chaeolo	gy. Consis	ts of topsoi	l and subsoil overlying	Length (m)		40
natural						Width (m)		1.5
						Avg. depth (m)		0.3
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
3200	Layer		, ,	0.1	Topsoil. Mid-dark brov	vn clayey silt		
3201	Layer			0.15	Subsoil. Orange-brow	n clayey silt		
3202	Layer				Natural. Firm mid-dar with gravel	k pinkish red clayey silt		
3203	Void				J			
Trench 33	3							
General d	escription					Orientation		ENE- WSW
Trench de	void of ar	chaeolo	gy. Consis	ts of topsoi	l and subsoil overlying	Length (m)		40
the natura	al geology	of clay	′ .			Width (m)		1.5
						Avg. depth (m)		0.5
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
3300	Layer		, ,	0.22	Topsoil. Firm mid-dark	c grey clayey silt		
3301	Layer			0.3	Subsoil. Firm dark ora	nge-brown clayey silt		
3302	Layer				Natural. Firm dark pin dark purple silty clay	nk-red with mottles of weathered with gravels		
Trench 2								
Trench 34						Orientation		N-S
General d	escription	chaeolo	ogy, Consis	ts of tonsoi	l and subsoil overlying	Orientation Length (m)		N-S 40



						Avg. depth (m)		0.4
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description	-	Finds	Date
3400	Layer		()	0.23	Topsoil. Firm mid-dar	rk brown clayey silt		
3401	Layer			0.25	Subsoil. Dark orange			
3402	Layer				Natural. Firm dark pir gravels			
Trench 35	5							
General de	escription			Orientation		NNW- SSE		
Trench co	nsists of t	opsoil c	verlying su	ubsoil whic	h overlies natural.	Length (m)		40
						Width (m)		1.5
						Avg. depth (m)		0.42
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
3500	Layer			0.19	Topsoil. Dark grey bro	own silty clay		
3501	Layer			0.24	Subsoil. Brown silty c	lay		
3502	Layer				Natural. Brown-red sandy clay with frequent gravel			
Trench 36	 5							
General de	escription					Orientation		WNW -ESE
Trench wa	as relocate	ed due t	o close pro	ximity to a	a badger sett. Trench	Length (m)		40
was devoi	id of arch	aeology	. Consists	of topsoil	overlying subsoil	Width (m)		1.5
overlying	mixed cla	y and g	gravel geol	ogy.		Avg. depth (m)		0.5
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
3600	Layer			0.3	Topsoil. Light red bro	wn clayey silt		
3601	Layer			0.2	Subsoil. Light red bro	wn silty clay with some		
3602	Layer				Natural. Light pink-re	ed clay and gravel		
Trench 37	7							
General description						Orientation		N-S
General de	as relocate	ed due t	o close pro	ximity to a	a badger sett. Trench	Length (m)		40
	io i ciocaci			Width (m)		1 5		
		aeology	. Consists	or topson o	overlying subson	widdi (iii)		1.5
Trench wa was devoi	id of arch		nd clay ge		overlying subson	Avg. depth (m)		0.35
Trench was devoi overlying Context	id of arch	drock a	nd clay ge Width	ology Depth	Description	<u> </u>	Finds	
Trench was devoi	id of archa mixed be	drock a	nd clay ge	ology	· -	Avg. depth (m)	Finds	0.35



3702	Layer				Natural. Light pink-red geology	d silty clay and bedrock		
Trench 38	•							
General de						Orientation		E-W
		chaoolo	av Consis	Lovorlying subsoil			40	
Trench devoid of archaeology. Consists of topsoil overlying subsoil overlying mixed gravel and clay geology						Length (m)		
overrymig	mixed giv	aver arre	. c.u, gco.	~97		Width (m)		1.5
						Avg. depth (m)	T	0.6
Context No.	Type	Fill Of	Width (m)	Depth (m)	Description Finds			Date
3800	Layer	Oi	(111)	0.3	Topsoil. Light grey-red	clavev silt		
3801	Layer			0.45	Subsoil. Brown-red silt			
3802	+ -			0.43	Natural. Pink-red clay			
3002	Layer				Natural. Pilik-red Clay	and graver geology		
Trench 39						1		l
General d	escription					Orientation		NE-
Trench co	ntained a	nossible	Gully Co	nsists of to	psoil overlying subsoil	Length (m)		SW 40
overlying		•	•		pson overlying subson	Width (m)		1.5
		., aa g	. a.v.a. gaa.	~ 5 /1.				
	T_		140 111	T	T ₂	Avg. depth (m)		0.6
Context No.	Type	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
3900	Layer	_	,	0.28	Topsoil. Light grey-red	clayey silt		
3901	Layer			0.58	Subsoil. Brown-red silty clay			
3902	Layer				Natural. Pink-red silty clay with frequent			
					gravel	, ,		
3903	Cut		0.41	0.12	Gully. E-W aligned dra	inage gully with		
					shallow sides and an i	rregular base		
3904	Fill	3903	0.41	0.12	Secondary Fill. Firm da	- ,		
mottles of light br						grey silty clay		
Trench 40						T		ı
General d	escription					Orientation		NE-
Trench de	void of ar	chaeolo	ny Consis	ts of tonsoi	l overlying subsoil	Length (m)		SW 40
Trench devoid of archaeology. Consists of topsoil overlying subsoil overlying mixed clay and gravel geology.						Width (m)		1.5
overlyina		,	3		Avg. depth (m)		0.45	
overlying			Width	Depth	Doscription	Avg. depth (III)	Finds	
	Type		vviutii	•	Description		FILIUS	Date
Context	Туре	Fill Of	(m)	1 (m)				1
Context No.		Fill Of	(m)	(m) 0.26	Topsoil, Dark brown gr	ev clavev silt		
Context No. 4000	Layer		(m)	0.26	Topsoil. Dark brown gr			
Context No. 4000 4001	Layer		(m)	-	Subsoil. Yellow-brown	silty clay		
Context No. 4000	Layer		(m)	0.26		silty clay d with yellow-brown		





General description						Orientation		NW- SE
Trench devoid of archaeology. Consists of topsoil overlying subsoil overlying mixed clay and gravel geology.						Length (m) Width (m)		40
								1.5
						Avg. depth (m)		0.6
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description	Finds		Date
4100	Layer			0.19	Topsoil. Dark grey bi	rown clayey silt		
4101	Layer			0.6	Subsoil. Yellow-brow	n silty clay		
4102	Layer Natural. Red-brown silt					silty clay and gravels		
	1	•	•	•			•	
Trench 42	2							
General d	escription			Orientation		NW- SE		
Trench co	nsists of t	opsoil (overlying s	ubsoil whicl	n overlies natural	Length (m)		36
						Width (m)		1.5
						Avg. depth (m)		0.32
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
4200	Layer			0.22	Topsoil. Dark grey bi	rown silty clay		
4201	Layer			0.13	Subsoil. Red brown silty clay with infrequent stones			
4202	Layer				Natural. Brown red brick earth with frequent moderate gravels and stone			
Trench 43	3							
General d	escription					Orientation		
Not excav	ated.					Length (m)		
						Width (m)		
						Avg. depth (m)		
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
Trench 44	.							
General de	escription				Orientation			
Not excav	ated.					Length (m)		
						Width (m)		
						Avg. depth (m)		
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description	•	Finds	Date
Trench 45	5							
General description						Orientation		NE- SW



LLandyfaelog Substation

Trench devoid of archaeology. Consists of topsoil overlying subsoil						Length (m)		40
overlying mixed clay and gravel geology.					Width (m)		1.5	
						Avg. depth (m)		0.5
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description		Finds	Date
4500	Layer			0.2	Topsoil. Light grey-re	ed clayey silt		
4501	Layer			0.5	Subsoil. Red-brown	Subsoil. Red-brown silty clay		
4502	Layer				Natural. Orange-red brown with patches of pink-red silty clay with frequent gravel and bedrock			
Trench 46	5							
General d	escription					Orientation		NW- SE
Consists	f topsoil o	verlyin	g subsoil o	verlying mi	ixed clay and	Length (m)		40
gravel/be	drock geo	logy.				Width (m)		1.5
						Avg. depth (m)		0.7
Context No.	Туре	Fill Of	Width (m)	Depth (m)	Description F		Finds	Date
4600	Layer			0.23	Topsoil. Light red-grey clayey silt			
4601	Layer			0.7	Subsoil. Yellow-brown silty clay			
4602	Layer				Natural. Pink-red silty clay with some gravel/bedrock			
4603	Cut		1.31	0.38		Tree Throw. sub-oval with moderate-vertical sides and an irregular base		
4604	Fill	4603	1.31	0.38	Secondary Fill. Light	grey-brown silty clay		



APPENDIX B BIBLIOGRAPHY

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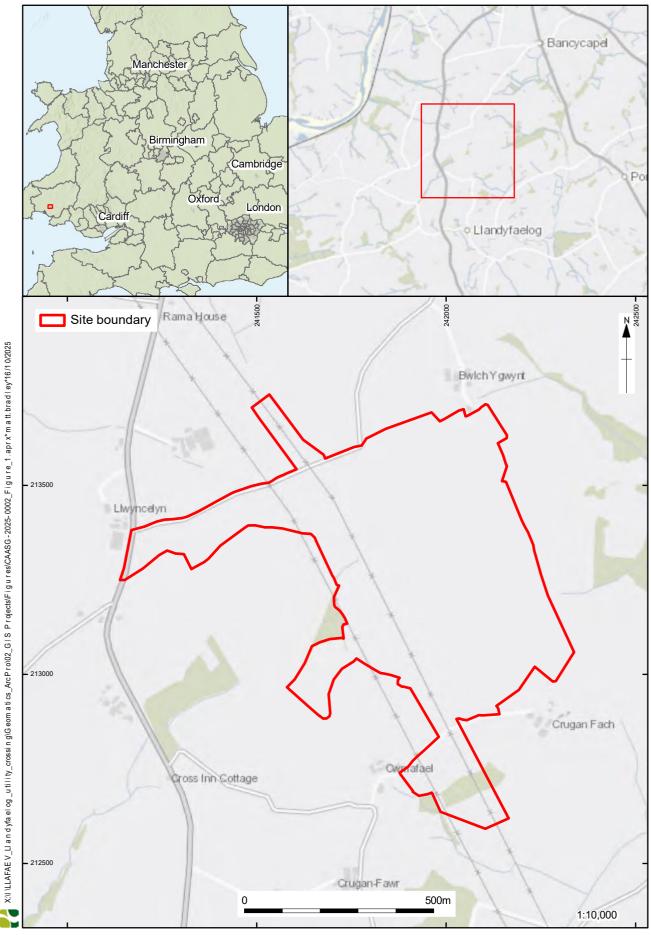
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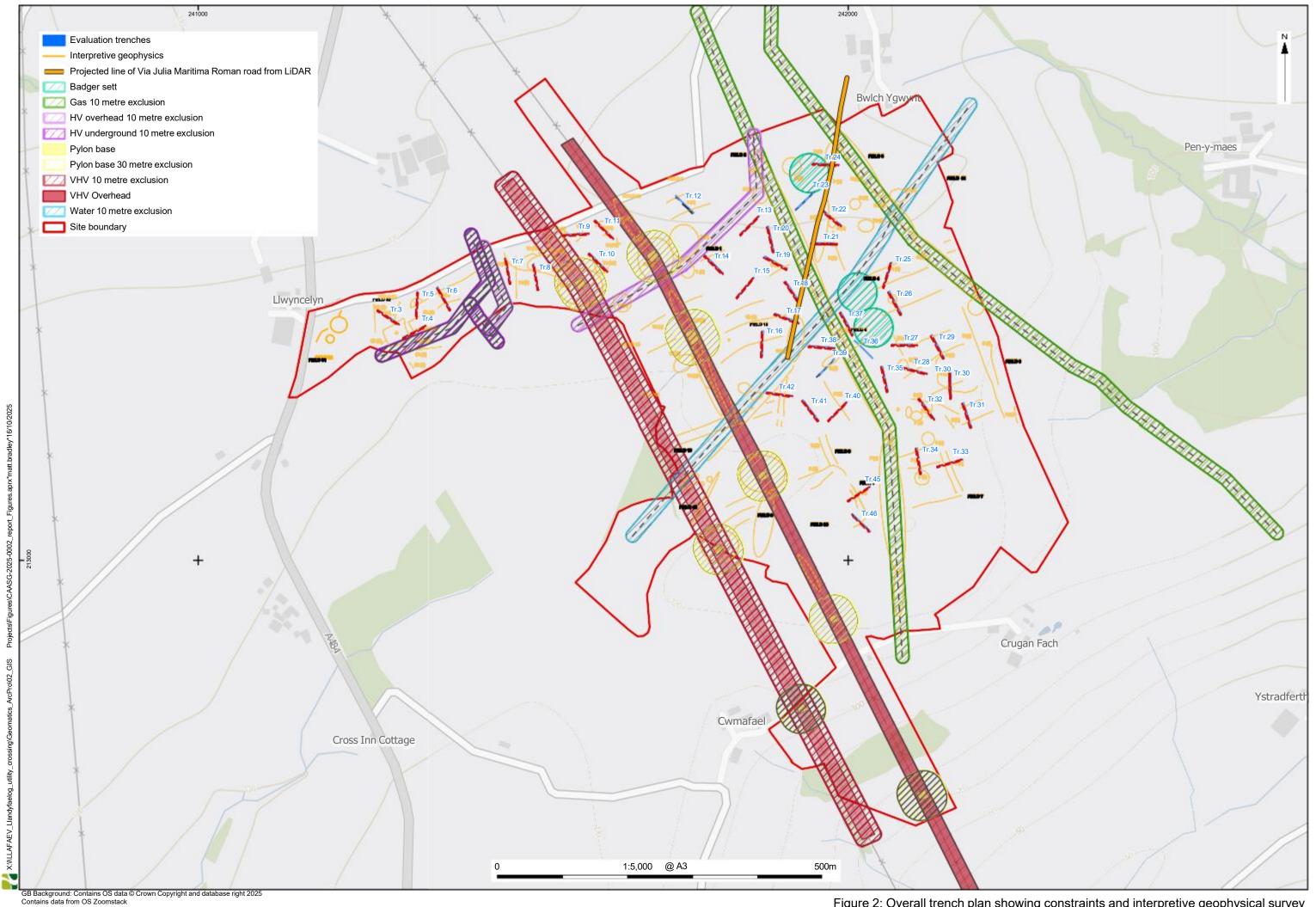
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Terrain: Multi-Directional Hillshade: Source: Airbus, USGS, NGA, NASA, CGIAR, NLS, OS, NMA, Geodatastyrelsen, GSA, GSI and the GIS User Community Country - OS Boundary-Line: Contains OS data © Crown Copyright and database right 2025
OS_Open_Background_2: Contains OS data © Crown Copyright and database right 2020
CTYUA_DEC_2024_UK_BFE:
Major Towns and Cities (December 2015) Boundaries EW BGG V2: Office for National Statistics

Figure 1: Site location



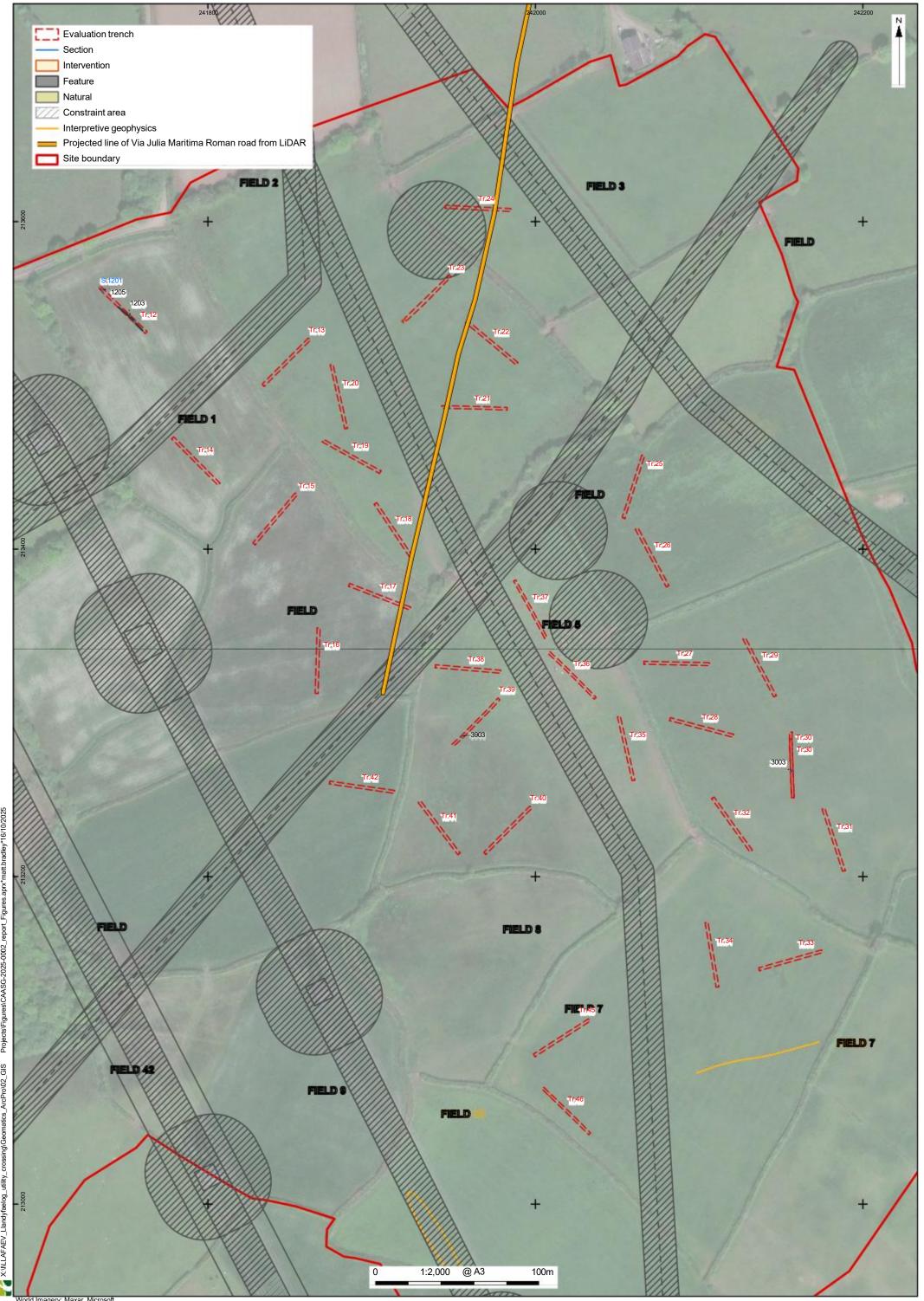
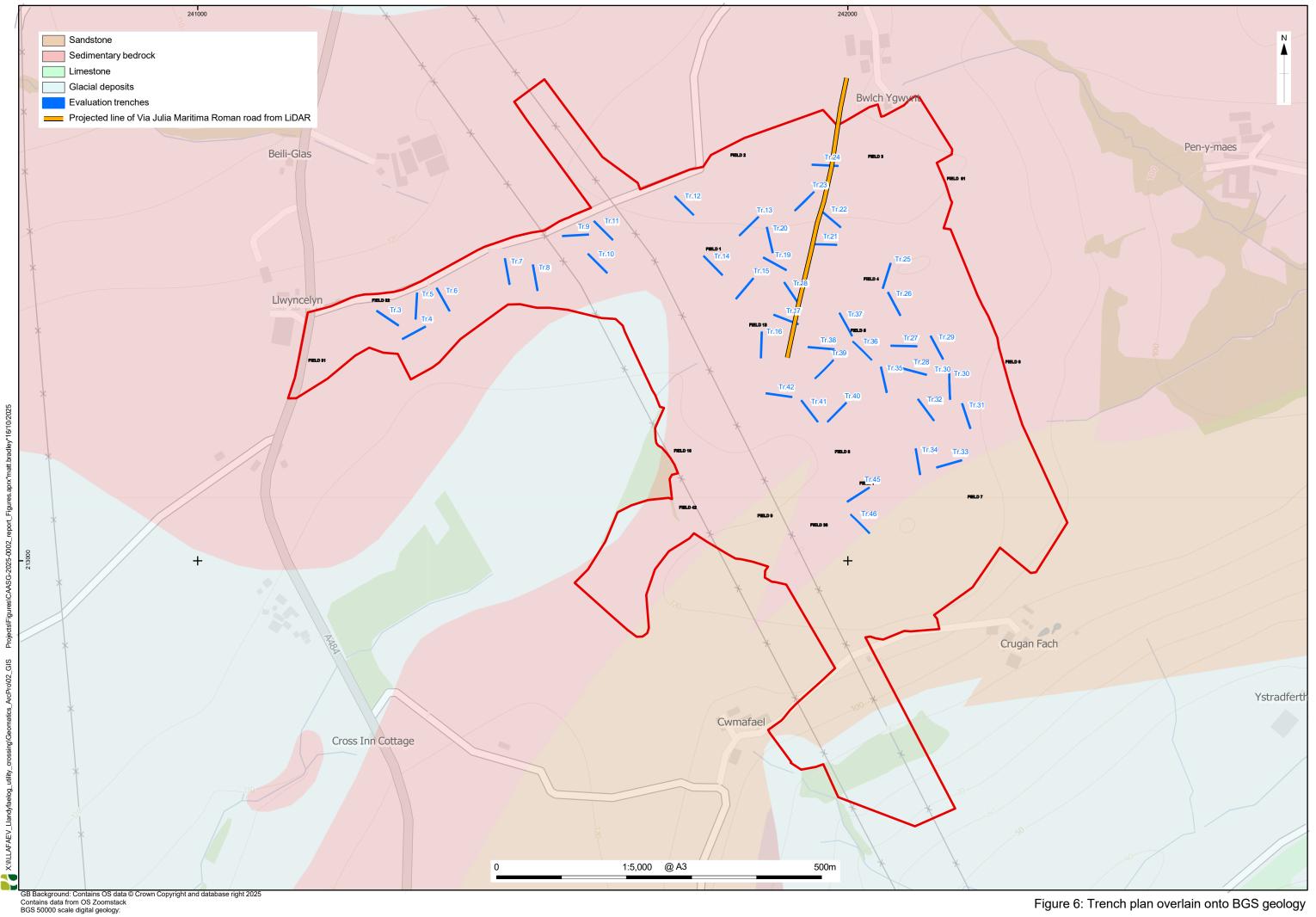


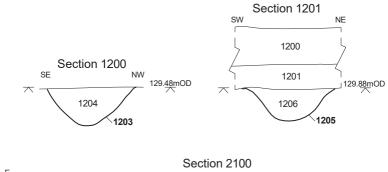
Figure 3: Field numbers overlain onto trench plan and geophysical survey

World Imagery: Maxar, Microsoft

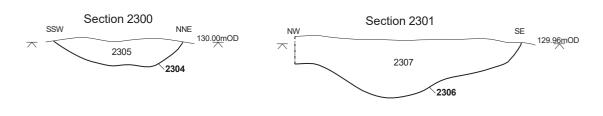
Figure 4: Field numbers overlain onto trench plan and geophysical survey

Figure 5: Detailed view of trench 21











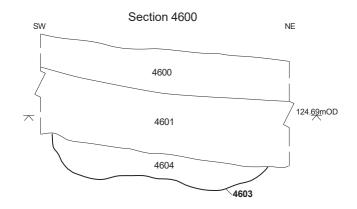




Plate 1: Trench 3, looking south-east



Plate 2: Trench 7, looking south-east



Plate 3: Trench 9 looking east



Plate 4: Trench 12, looking south-east



Plate 5: Trench 17 looking north-west



Plate 6: Trench 21, looking east



Plate 8: Trench 30 looking south



Plate 9: Trench 33, looking north-east



Plate 11: Trench 45 looking north-east



Plate 12: Trench 12, south facing section of periglacial scar 1203



Plate 13: Trench 12, north-east facing section of periglacial scar 1205



Plate 14: Trench 21, north facing section of ditch 2103



Plate 15: Trench 30, west facing section of gully 3003



Plate 16: Trench 39, west facing section of gully 3903

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