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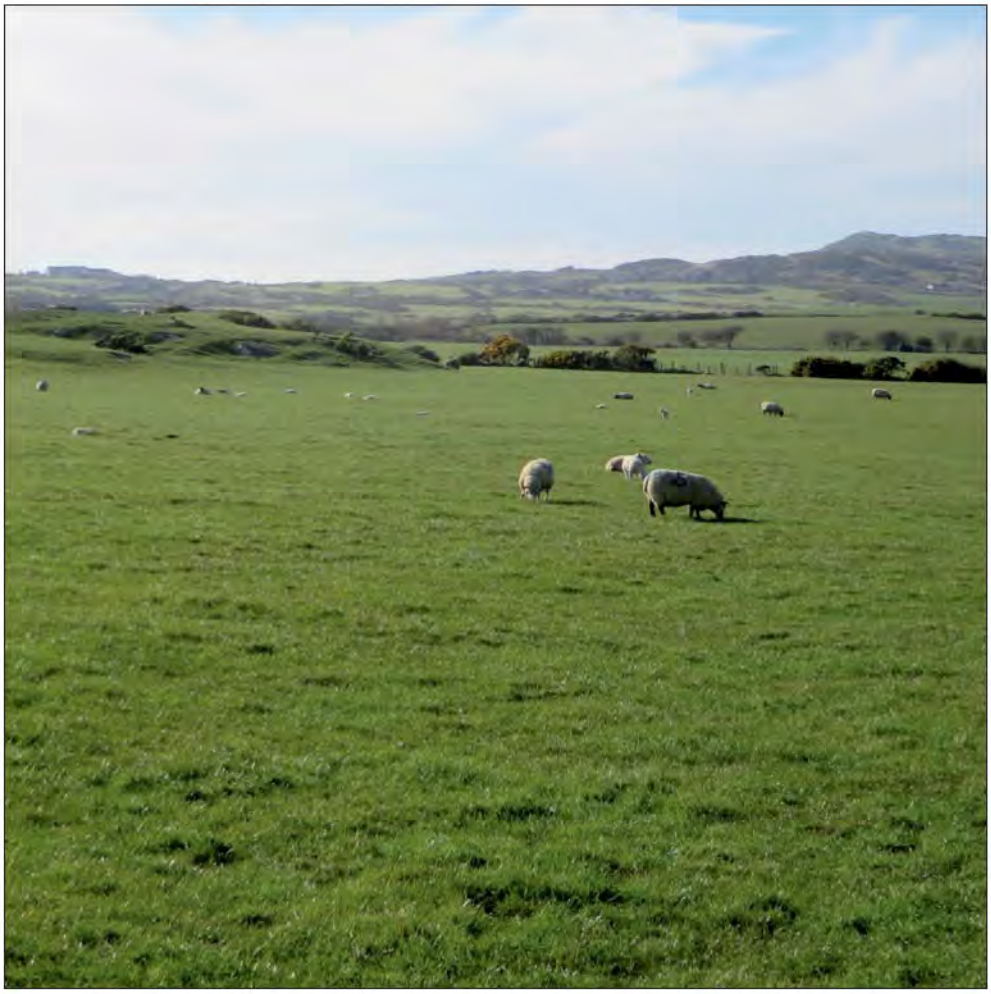
Wylfa Newydd: A5025 Highway Improvements Anglesey

Archaeological Watching Brief Report on Ground Investigation Works Sections 1, 3 & 7, Valley, Llanfachraeth and Cefn Coch



Planning Application No: 27C106/FR
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July 2016

archaeology

Wylfa Newydd: A5025 Highway Improvements Anglesey

Archaeological Watching Brief Report on Ground Investigation Works Sections 1, 3 and 7: Valley, Llanfachraeth and Cefn Coch

Planning Application No: 27C106/FR

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Wylfa Newydd: A5025 Highway Improvements Anglesey

Archaeological Watching Brief Report Sections 1, 3 and 7: Valley, Llanfachraeth and Cefn Coch

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Wylfa Newydd: A5025 Highway Improvements Anglesey

Archaeological Watching Brief Report Sections 1, 3 and 7: Valley, Llanfachraeth and Cefn Coch

Non-Technical Summary

Wessex Archaeology was commissioned by Jacobs UK on behalf of Horizon Nuclear Power (Horizon) to undertake an archaeological watching brief on ground investigation in advance of the Wylfa Newydd: A5025 Highway Improvements. The watching brief was undertaken in response to a condition on planning permission for the ground investigation and in accordance with a Written Scheme of Historic Mitigation prepared by Horizon and agreed with Gwynedd Archaeological Planning Service (GAPS).

This report presents the results of the watching brief for ground investigation of the off-line sections at Valley (Section 1), Llanfachraeth (Section 3) and Cefn Coch (Section 7). The results of the watching brief on ground investigation for the Llanfaethlu off-line section (Section 5) are presented in a separate report (Wessex 2016).

The only possible archaeological feature recorded during the watching brief was a layer within borehole BHD5 at Cefn Coch (Section 7). This layer has been interpreted as a trackway which was known to be in the vicinity of the borehole, being depicted on historic Ordnance Survey mapping and identified as a geophysical anomaly during the geophysical survey.

No archaeological features were identified in any of the remaining boreholes or trial pits at Section 7 or any of the GI works at Section 1 or Section 3.

The majority of the finds recovered during the watching brief were post-medieval and modern pottery recovered from topsoil contexts. A single prehistoric flint flake was recovered from Section 7 and provides evidence of possible prehistoric activity.

It is recommended that the project archive resulting from the excavation be deposited with Anglesey Museums, under an accession code to be confirmed.

Wylfa Newydd:A5025 Improvements Anglesey

Archaeological Watching Brief Report Sections 1, 3 and 7: Valley, Llanfachraeth and Cefn Coch

Acknowledgements

The archaeological watching brief was commissioned by Jacobs UK on behalf of Horizon Nuclear Power (Horizon) and the assistance of Jonathan Dempsey is gratefully acknowledged in this regard. The assistance of Structural Soils Ltd (SSL) who carried out the ground investigation works is also appreciated and in particular Adam Dingle of SSL.

Fieldwork was carried out by Phillip Maier, Mike Howarth and Hannah Holbrook between the 17th February and 28th April 2016. The report was written by Alex Cassels, with illustrations by Alix Sperr. The finds report was written by Lorraine Mepham. The project was managed for Wessex Archaeology by Chris Swales.

Wylfa Newydd: A5025 Highway Improvements Anglesey

Archaeological Watching Brief Report Sections 1, 3 and 7: Valley, Llanfachraeth and Cefn Coch

1 INTRODUCTION

1.1 Project background

1.1.1 Wessex Archaeology was commissioned by Jacobs UK on behalf of Horizon Nuclear Power (Horizon; 'the Client') to carry out a watching brief on ground investigation (GI) works in advance of the Wylfa Newydd: A5025 Highway Improvements ('the Scheme').

1.1.2 The archaeological watching brief was undertake in response to Condition 5 of the planning permission (Planning Application Ref: 27C106/FR) and was carried out in accordance with a Written Scheme of Historic Mitigation (WSHM) and agreed with the Gwynedd Archaeological Planning Service (GAPS).

1.1.3 An initial desk-based assessment identified the known heritage assets within the vicinity of the Scheme (GAT 2015) while a subsequent geophysical survey identified a number of geophysical anomalies interpreted as archaeological in origin (Headland Archaeology 2015). The placement of the boreholes and trial pits excavated during the GI works were located with the aim of avoiding any impact on heritage assets during the works.

1.1.4 This report presents the results of the watching brief for ground investigations of the off-line sections at Valley (Section 1, centred on NGR 229795, 379338, see **Figure 1**), Llanfachraeth (Section 3, centred on NGR 231705, 382561, see **Figure 2**), Llanfaethlu (Section 5) and Cefn Coch (Section 7, centred on NGR 234118, 390227, see **Figure 3**). The findings from Llanfaethlu (Section 5) are contained within a separate report (Wessex Archaeology 2016).

1.2 The Scheme

1.2.1 The Scheme (**Figure 1**) follows the route of the A5025 which forms a main vehicular route through Anglesey and provides access to both the existing and proposed power stations. The section of carriageway associated with the proposed improvements is approximately 18 km long commencing at the junction with the A5 at Valley. The road runs northwards broadly parallel with the west coast of Anglesey, towards Cemaes at the northern end of the Scheme.

1.2.2 Section 1 was located in a corridor of land of approximately 550 m in length at the southern end of the Scheme to the east of the settlement of Valley. This corridor of land ran from the A5 at its southern end across open fields to the current route of the A5025 at the northern end.

1.2.3 Section 1 was located in a relatively low lying area with a ground level of approximately 5 m above Ordnance Datum (aOD). The underlying geology of Section 1 was recorded as mica schist and psammite of the Harbour Group with superficial tidal flat deposits of clay and silt (British Geological Survey).

1.2.4 Section 3 was located in a corridor of land of approximately 2 km in length running to the east of Llanfachraeth. The corridor of land ran parallel to the east of the current route of the A5025 across open fields.

1.2.5 Section 3 was located in gently undulating land with a ground level of approximately 8 m aOD at its southern end and a ground level of approximately 12 m aOD at its northern end. The underlying geology of Section 3 was recorded as mica schist and psammite of the Harbour Group with recorded superficial deposits of Devensian till (British Geological Survey).

1.2.6 Section 7 was located in a corridor of land running through open fields to the west of the current route of the A5025 for approximately 1.25 km. The southern end of Section 7 had a ground level of approximately 60 m aOD and sloped downhill to a ground level of approximately 30 m aOD at the northern end.

1.2.7 The underlying geology of the northern half of Section 7 was recorded as mica schist and psammite of the Harbour Group with the southern half recorded as bands of tuff and sandstone of the Church Bay Tuffs and Skerries Grits and schist of the Gwna Group. Superficial Devensian till deposits comprising diamicton were recorded (British Geological Survey).

2 ARCHAEOLOGICAL BACKGROUND

2.1 Introduction

2.1.1 The route of the Scheme had previously been the subject of a desk-based assessment and a geophysical survey. The following information is summarised from the WSHM (Horizon 2016).

2.2 Summary

2.2.1 No evidence of Palaeolithic activity on Anglesey has been identified, with the first indication for occupation on the island dating to the Mesolithic period. It was not until the Neolithic period that there were considerable changes in how land was used, with the introduction of farming leading to more settled occupation as well as megalithic monument tombs, often burial chambers for multiple deceased.

2.2.2 The Bronze Age was a period of particular importance on Anglesey with extensive evidence of human activity across the island. During the Early Bronze Age funerary activities moved inland from the coastal areas, and individual burials furnished with grave goods, were adopted replacing the communal burials used in earlier periods. Settlement evidence is sporadic at this time but increases during the Late Bronze Age and into the Early Iron Age.

2.2.3 The Iron Age on Anglesey is defined by scattered farming settlements punctuated by dominant defensive sites, with hillforts and related fortifications occupying naturally defensive positions within the landscape. Roman occupation of Anglesey began shortly after the conquest in AD 43 when refugees escaping from the advancing Roman army sought shelter on the island. A garrison was established on the island in AD 60 with its final capture occurring in AD 78 after fierce resistance.

2.2.4 The recorded archaeology of the wider area suggests that the early medieval to modern period was characterised by largely agricultural activity within a landscape of small, scattered settlements and associated churches and chapels. The major development on

Anglesey during the post-medieval period was the exploitation of copper ores, especially at the Parys Mountain mine.

2.2.5 The Scheme lies within an area that appears to have remained relatively undisturbed throughout the 19th century and into the modern period, retaining an essentially rural character.

2.2.6 The recent geophysical survey undertaken along the route of the Scheme identified a number of geophysical anomalies interpreted as archaeological in origin. These largely comprise linear anomalies within Section 3 at Llanfachraeth and Section 7 at Cefn Coch.

3 METHODOLOGY

3.1 Aims and objectives

3.1.1 The specific objectives of the project were:

- *to identify, investigate and record any such archaeological remains to the extent possible by the methods put forward in the WSHM;*
- *to determine (so far as possible) the stratigraphic sequence and dating of features identified; and,*
- *to disseminate the results through deposition of an ordered archive at the Royal Commission of the Ancient and Historical Monuments of Wales, the deposition of a detailed report at the Gwynedd Archaeological Trust Historic Environment record and the report made available through the Council for British Archaeology (Wales) publication Archaeology in Wales.*

3.2 Fieldwork methodology

3.2.1 The archaeological watching brief was carried out in accordance with the requirements set out within the WSHM and CIfA standards and guidance (CIfA 2014a and 2014b).

3.2.2 The excavated trial pits, starter pits for boreholes and SHDP and their exact locations deviated from the specification outlined in the approved WSHM due to access issues and the very wet ground conditions across the Scheme. The final number of GI pits monitored and their exact locations is described in **Figures 1-3** and **Appendix 1**. Appendix 1 lists the GI pit designations and nature of deposits identified.

3.2.3 The archaeological watching brief comprised the monitoring of 12 GI pits at Section 1, 43 GI pits at Section 3 and 27 GI pits at Section 7. The excavation of every borehole, trial pit was undertaken by the GI contractor (SSL) under the direct and continuous supervision of a suitably experienced archaeologist. All mechanical excavation was undertaken using a toothless ditching bucket.

3.2.4 Clearance for GI works to proceed with further excavation was issued once it was satisfied that there were no remains of archaeological significance, that there was no further risk to buried heritage assets, or that any archaeological remains had been identified, investigated and recorded.

3.2.5 The location, layout, depth and general stratigraphy of each trial pit and borehole was recorded irrespective of whether archaeological remains were identified. Each GI pit was surveyed by SSL, with the ‘as dug’ survey data provided to Wessex Archaeology.

3.2.6 Where potential archaeological remains were identified they were investigated by hand excavation. Potential archaeological deposits, structures and features were investigated by hand excavation and recorded using Wessex Archaeology's *pro forma* system. Recording included written, drawn, and photographic elements as conditions allowed.

3.3 Specialist strategies

Artefact

3.3.1 All finds of archaeological interest were retained and removed from the Scheme and cleaned, catalogued and appropriately packaged.

Environmental

3.3.2 No environmental soil samples were taken during the archaeological watching brief.

4 ARCHAEOLOGICAL RESULTS

4.1 Introduction

4.1.1 The following section provides a summary of the information held in the Site archive, with a full list of context numbers and descriptions within the watching brief area contained in **Appendix 1**. It is not intended to discuss individual GI pits in any detail. A complete list and description of each GI pit monitored can be found in **Appendix 1**.

4.2 Section 1: Valley

4.2.1 The underlying geology within Section 1 was recorded as comprising sand, varying in colour between light grey and reddish orange. It was generally encountered between 0.2 m and 0.4 m below ground level (bgl) although on occasion was significantly deeper between 0.9 m and 1.2 m. This was overlain by a subsoil layer comprising an orange brown silty sand which was between 0.27 m and 0.7 m thick. Subsoil was generally present in areas where the underlying geology was deeper and was not present in all boreholes and trial pits. Topsoil was a dark greyish brown silty sand measuring between 0.08 m and 0.3 m thick (Plates 3-5).

4.2.2 No archaeological features were encountered during the watching brief within Section 1.

4.3 Section 3: Llanfachraeth

4.3.1 The underlying geology within Section 3 was recorded as a silty clay varying in colour between light yellowish brown and reddish orange. It was encountered between 0.15 m and 0.85 m below ground level. This was occasionally overlain by a layer of subsoil consisting of a mid-brownish grey silty clay of between 0.13 m and 0.5 m thick. Subsoil was not encountered in all the boreholes and trial pits. Topsoil across Section 3 comprised a dark brown silty clay and measured between 0.15 m and 0.57 m thick (Plates 1,6-8).

4.3.2 No archaeological features were encountered during the watching brief within Section 3. Modern pearlware ceramic was recovered from the topsoil within TPB14 and TPB18.

4.4 Section 7: Cefn Coch

4.4.1 The underlying geology within Section 7 was recorded as comprising a silty sand, varying between light greyish brown and light brownish yellow. It was encountered between 0.27 m and 0.6 m below ground level. Subsoil was occasionally present and was recorded as a

mid-brown silty sand measuring between 0.2 m and 0.3 m thick. Topsoil was between 0.2 m and 0.6 m thick and comprised a dark brown silty sand (Plates 2, 9-10).

4.4.2 The only possible archaeological feature encountered at Section 7 was within BHD5. This comprised a 0.15 m thick layer of black silty sand with abundant sub-angular medium gravel (Plate 11). This layer extended beyond the limits of the borehole and has been interpreted as part of a trackway highlighted as being in the vicinity of the proposed borehole within the WSHM (Horizon 2016).

4.4.3 A small waste flint flake was identified within the topsoil within TPD8. Modern whiteware pottery was also recovered from the same context.

5 ARTEFACTUAL EVIDENCE

5.1 Introduction

5.1.1 A small assemblage of finds was recovered, consisting largely of modern pottery. With the exception of a single prehistoric item, all datable material is post-medieval/modern. Most finds were recovered from topsoil contexts. The quantification of finds by material type and by context is given in Table 1.

5.2 Pottery

5.2.1 Table 2 lists the pottery by context. Of the three sherds recovered all are post-medieval/modern wares suggesting a date range of 17th/18th to 20th century.

5.3 Ceramic Building Material

5.3.1 One fragment from TPB22 topsoil is from a modern brick.

5.4 Worked flint

5.4.1 One small waste flake was a topsoil find in TPD8.

Table 1: All finds by context (number/weight in grams)

Context	Pottery	Other Finds
TPD801	1/11	1 flint
TPB1401	1/3	
TPB1802	1/15	
TPB2201		1 CBM
Total	**3/29**	

CBM = ceramic building material

Table 2: Pottery by context

Context	Material	No. sherds	Wt. (g)	Additional Comments
TPD801	POTTERY	1	11	modern: refined whiteware
TPB1401	POTTERY	1	3	modern: pearlware (transfer-printed)
TPB1802	POTTERY	1	15	modern: pearlware (jug handle)

6 DISCUSSION

6.1 Summary

6.1.1 The only possible archaeological feature recorded during the watching brief was a layer within borehole BHD5 at Cefn Coch (Section 7). This layer has been interpreted as a trackway which was known to be in the vicinity of the borehole (Horizon 2016), is depicted on historic Ordnance Survey mapping (GAT 2015) and was identified as a geophysical anomaly during the geophysical survey.

6.1.2 The majority of the finds recovered during the watching brief were post-medieval and modern pottery recovered from topsoil contexts. A single prehistoric flint flake was recovered from Section 7 and provides evidence of possible prehistoric activity.

6.1.3 No archaeological features were identified in any of the remaining boreholes or trial pits at Section 7 or any of the GI works at Section 1 or Section 3.

7 STORAGE AND CURATION

7.1 Museum

7.1.1 It is recommended that the project archive resulting from the excavation be deposited with Anglesey Museums, under an accession code to be confirmed.

7.2 Archive

7.2.1 The complete site archive, which will include paper records, photographic records, graphics, and digital data, will be prepared following the standard conditions for the acceptance of excavated archaeological material by Anglesey Museums, and in general following nationally recommended guidelines (SMA 1995; CIfA 2014c; Brown 2011; ADS 2013).

7.2.2 All archive elements will be marked with the **site/accession code**, and a full index will be prepared. The physical archive comprises the following:

- *1 file of paper records & A4 graphics*
- *1 box of finds*

7.3 Discard policy

7.3.1 Wessex Archaeology follows the guidelines set out in *Selection, Retention and Dispersal* (SMA 1995), which allows for the discard of selected artefact and ecofact categories which are not considered to warrant any future analysis. In this instance, the prehistoric find (worked flint) should be retained, but the post-medieval/modern material (small quantities of commonly occurring and well documented types) has little or no potential for further analysis, and does not warrant retention for long-term curation. Any dispersal of artefacts from the assemblage will be fully documented in the project archive.

7.4 Security copy

7.4.1 In line with current best practice (e.g. Brown 2011), on completion of the project a security copy of the written records will be prepared, in the form of a digital PDF/A file. PDF/A is an ISO-standardised version of the Portable Document Format (PDF) designed for the digital

preservation of electronic documents through omission of features ill-suited to long-term archiving.

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SMA 1995, *Selection, Retention and Dispersal of Archaeological Collections*, Society of Museum Archaeologists

Wessex Archaeology, 2016. *Wylfa Newydd: A5025 Improvements, Anglesey. Archaeological Watching Brief Report, Section 5: Llanfaethlu.*

On line resources

British Geological Survey, 2016. (http://mapapps.bgs.ac.uk/geologyofbritain/home.html)

9 APPENDICES

9.1 Appendix 1:Context Descriptions

Section 1

BHA 1			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
BHA 101	Topsoil	Greyish brown silty sand	0.00-0.30
BHA 102	Natural	Whitish grey silty sand	0.30+

BHA 6			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
BHA 601	Topsoil	Orange to dark reddish grey silty sand	0.00-0.30
BHA 602	Natural	Whitish grey silty sand	0.30+

BHA 7			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
BHA 701	Topsoil	Dark grey silty sand	0.00-0.30
BHA 702	Natural	Reddish orange silty sand	0.30+

BHA 9			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
BHA 901	Topsoil	Greyish brown silty sand	0.00-0.30
BHA 902	Natural	Greyish orange silty sand	0.30-0.70

BHA 11			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 11001	Topsoil	Dark brown silt clay	0.00-0.30
BHB 11002	Natural	Mid yellow sand	0.30-1.20+

TPA 2			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPA 201	Topsoil	Brownish grey silty sand	0.00-0.25
TPA 202	Natural	Yellow orange silty sand	0.25+

TPA 8			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPA 801	Topsoil	Greyish brown silty sand	0.00-0.08
TPA 802	Subsoil	Dark grey clayey silty sand	0.08-0.36
TPA 803	Natural	Very fine silty sand with an orange hue	0.36+

WSA 4A			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSA 4A01	Topsoil	Greyish brown silty sand	0.00-0.20
WSA 4A02	Subsoil	Dark grey clayey silty sand	0.20-0.90
WSA 4A03	Natural	Greyish blue silty sand	0.90+

WSA 4			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSA 401	Topsoil	Greyish brown silty sand	0.00-0.20
WSA 402	Subsoil	Dark grey clayey silty sand	0.20-0.80

WSA 5			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSA 501	Topsoil	Greyish brown silty sand	0.00-0.30
WSA 502	Natural	Greyish orange silty sand	0.20-0.90+

WSA 6			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSA 601	Topsoil	Greyish brown silty sand	0.00-0.30
WSA 602	Subsoil	Orange brown silty sand	0.30-1.20
WSA 603	Natural	Greyish blue silty sand	1.20+

WSA 12			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSA 1201	Topsoil	Greyish brown silty sand	0.00-0.30
WSA 1202	Subsoil	Orange brown silty sand	0.30-0.80
WSA 1203	Natural	Dark greyish blue silty sand	0.80+

WSA 13			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSA 1301	Topsoil	Greyish brown silty sand	0.00-0.25
WSA 1302	Subsoil	Greyish brown with orange hue fine sand	0.25-0.90
WSA 1303	Natural	Dark greyish blue silty sand	0.90+

Section 3

BHB 1			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 101	Topsoil	Dark brown silty clay	0.00-0.40
BHB 102	Natural	Mid to light yellowish brown silty clay	0.40-1.20

BHB 3			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 301	Topsoil	Dark brown silty clay	0.00-0.40
BHB 302	Natural	Light yellowish brown silty clay	0.40-1.20

BHB 4			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 401	Topsoil	Dark brown silty clay	0.00-0.30
BHB 402	Subsoil	Mid brown silty clay	0.30-0.62
BHB 403	Natural	Mid reddish brown sandy silty loam	0.62-1.20+

BHB 4A			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 4A01	Topsoil	Dark brown silty clay	0.00-0.30
BHB 4A02	Subsoil	Mid brown silty clay	0.30-0.62
BHB 4A03	Natural	Mid reddish brown sandy silty loam	0.62-1.20+

BHB 6			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 601	Topsoil	Mid brown sandy clay	0.00-0.43
BHB 602	Subsoil	Brownish orange clayey sand	0.43+

BHB 7			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 701	Topsoil	Light brown silty sand	0.00-0.57
BHB 702	Subsoil	Brownish grey silty sand	0.57-0.87
BHB 703	Natural	Greyish yellow clay	0.87+

BHB 10			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 1001	Topsoil	Mid brown silt clay	0.00-0.15
BHB 1002	Natural	Yellow brown silt clay	0.15-0.70+

BHB 11			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 1101	Topsoil	Mid brown sandy clay	0.00-0.32
BHB 1102	Subsoil	Brownish orange clayey sand	0.32+

BHB 13			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 1301	Topsoil	Mid brown sandy clay	0.00-0.28
BHB 1302	Natural	Silty clayey sand	0.28+

BHB 14			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 1401	Topsoil	Mid brown sandy clay	0.00-0.40
BHB 1402	Subsoil	Blackish grey silty clayey sand	0.40-0.60
BHB 1403	Natural	Yellow clayey sand	0.60+

BHB 15			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 1501	Topsoil	Mid brown sandy clay	0.00-0.30
BHB 1502	Subsoil	Blackish grey silty clayey sand	0.30-0.55
BHB 1503	Natural	Yellow clayey sand	0.55+

BHB 15A			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 15A01	Topsoil	Mid brown silty sand	0.00-0.27
BHB 15A02	Natural	Reddish yellow to orangey brown silty sand	0.27+

BHB 17			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 1701	Topsoil	Dark brown sandy silt	0.00-0.40
BHB 1702	Natural	Light greyish beige silty clay	0.40-1.24

BHB 19			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 1901	Topsoil	Dark brown sandy silt loam	0.00-0.38
BHB 1902	Natural	Light greyish beige silty clay	0.38+

BHB 21			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 2101	Topsoil	Dark brown silty sandy clay	0.00-0.40
BHB 2102	Natural	Greyish beige with orange streaks silty clay	0.40-0.85
BHB 2103	Layer	Bedrock	0.85+

BHB 23			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 2301	Topsoil	Dark brown silty sandy clay	0.00-0.40
BHB 2302	Natural	Greyish silty clay	0.40+

BHB 25			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 2501	Topsoil	Light greyish brown silty sand	0.00-0.30
BHB 2502	Natural	Mid yellow to dark grey mottled sandy clay	0.30+

BHB 27			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 2701	Topsoil	Light greyish brown silty sand	0.00-0.30
BHB 2702	Natural	Mid yellow to dark grey mottled sandy clay	0.30+

BHB 28			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 2801	Topsoil	Mid brown silty clay	0.00-0.20
BHB 2802	Subsoil	Mid brown silty clay	0.20-0.33
BHB 2803	Natural	Light grey with orange streaks sandy silty clay	0.33-1.20+

BHB 29			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHB 2901	Topsoil	Mid brown silty clay	0.00-0.30
BHB 2902	Subsoil	Mid brown silty clay	0.30-0.80
BHB 2903	Natural	Light grey with orange streaks sandy silty clay	0.80+

TPB 1			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB101	Topsoil	Dark brown sandy clay	0.00-0.32
TPB102	Natural	Yellow and grey streaked sandy clay	0.32-0.41+

TPB 2			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB201	Topsoil	Dark brown sandy clay	0.00-0.22
TPB202	Natural	Light greyish brown sandy silt	0.22+

TPB 3/ WSB 3			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 301	Topsoil	Reddish brown sandy clay	0.00-0.75
TPB 302	Natural	Orange brown to brownish blue peaty clay	0.75+

TPB 4			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 401	Topsoil	Mid brown sandy clay	0.00-0.35
TPB 402	Natural	Brownish orange sandy gravel	0.35-0.6

TPB 6			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 601	Topsoil	Reddish brown clayey sand	0.00-0.20

TPB 602	Subsoil	Reddish brown clayey sand	0.20-0.40
TPB 603	Natural	Brownish orange fine sandy clay	0.40+

TPB 7			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPB701	Topsoil	Mi reddish brown sandy silt	0-0.29
TPB702	Subsoil	Mid brown sandy silt	0.29-0.55
TPB 703	Natural	Yellowy brown sandy clay	0.55+

TPB 9			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 901	Topsoil	Dark grey silty clay	0.00-0.25
TPB 902	Natural	Light yellowish brown silty clay	0.25+

TPB 11			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 1101	Topsoil	Mid brownish grey silty clay	0.00-0.23
TPB 1102	Subsoil	Light grey sandy silty clay	0.23-0.33
TPB 1103	Natural	Reddish yellow silty clay	0.33+

TPB 13/ WSB13			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 1301	Topsoil	Mid brownish grey silty clay	0.00-0.20
TPB 1302	Natural	Yellow with orange hue clay	0.20+

TPB 14			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 1401	Topsoil	Light red brown silty sand	0.00-0.23
TPB 1402	Natural	Mid yellow to brown sandy gravel	0.23+

TPB 16			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 1601	Topsoil	Blackish brown silty sand	0.00-0.32
TPB 1602	Natural	Dark reddish brown silty sand	0.32-0.44

TPB 17			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 1701	Topsoil	Greyish black silty sand	0.00-0.36
TPB 1702	Subsoil	Mid brown silty sand	0.36-0.63
TPB 1703	Natural	Reddish brown sandy gravel	0.63+

TPB 18			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 1801	Topsoil	Greyish black silty sand	0.00-0.20
TPB 1802	Subsoil	Mid brown silty sand	0.20-0.40
TPB 1803	Natural	Reddish brown sandy gravel	0.40+

TPB 19			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 1901	Topsoil	Dark brown sandy silt	0.00-0.44
TPB 1902	Subsoil	Dark brown silty sandy loam	0.44-0.70
TPB 1903	Natural	Light greyish blue with orangey yellow streaks	0.70+

TPB 20			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 2001	Topsoil	Sandy silt loam	0.00-0.32
TPB 2002	Subsoil	Mid brown silty sand loam	0.32-0.59
TPB 2003	Natural	Orange silty sand	0.59+

TPB 22			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 2001	Topsoil	Silty sandy clay	0.00-0.38
TPB 2002	Subsoil	Brownish orange to brownish yellow sandy clay	0.38-0.90
TPB 2003	Natural	Greyish brown clayey gravel	0.90+

TPB 24			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 2401	Topsoil	Dark reddish brown silty sand	0.00-0.17
TPB 2402	Subsoil	Greyish brown silty clay	0.17-0.37
TPB 2403	Natural	Brownish orange silty clay	0.37+

TPB 26			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 2601	Topsoil	Mid brown sandy silt loam	0.00-0.20
TPB 2602	Subsoil	Mid brown sandy silt loam	0.20-0.37
TPB 2603	Natural	Light grey with red and yellow hue silty clay	0.37+

TPB 27			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 2701	Topsoil	Silty sandy clay	0.00-0.30
TPB 2702	Subsoil	Light brown sandy clay	0.30-0.55
TPB 2703	Natural	Mid yelllow to dark orange sandy clay	0.55+

TPB 28			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 2801	Topsoil	Greyish mid brown silty sand	0.00-0.35
TPB 2802	Subsoil	Mid yellow to dark orangey sandy clay	0.35+

TPB 31			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 3101	Topsoil	Mid brown silty sandy loam	0.00-0.35
TPB 3102	Subsoil	Mid brown silty sandy loam	0.35+
TPB 3103	Natural	Grey blue silty clay	0.50+

TPB 32			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 3201	Topsoil	Reddish brown sandy silt	0.00-0.05
TPB 3202	Subsoil	Grey silty clayey sand	0.05-0.25
TPB 3203	Natural	Orangey sandy clay	0.25+

TPB 35			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 3501	Topsoil	Dark brown to blackish grey silty clay	0.00-0.40
TPB 3502	Natural	Grey sandy clay with orange streaks	0.40-0.55+

TPB 37			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPB 3701	Topsoil	Light greyish brown silty sand clay	0.00-0.15
TPB 3702	Subsoil	Light greyish brown silty sand clay	0.15-0.55
TPB 3703	Natural	Orangey brown gritty clay	0.55+

Section 7

BHD 1			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 101	Topsoil	Mid brown silty sand	0.00-0.40
BHD 102	Natural	Brownish yellow silty sand	0.40+

BHD 3			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 301	Topsoil	Mid brown silty clay	0.00-0.20
BHD 302	Subsoil	Greyish brown silty sandy clay	0.20-0.40
BHD 303	Natural	Reddish yellow sandy silt	0.40+

BHD 4			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 401	Topsoil	Greyish brown sandy silt	0.00-0.30
BHD 402	Natural	Greyish brown silty sandy clay	0.30+

BHD 5			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 501	Topsoil	Light greyish brown sandy silt	0.00-0.40
BHD 502	Trackway	Black silty sand with abundant sub-angular medium gravel	0.40-0.55
BHD 503	Natural	Orange to brown with patches of grey sandy silt	0.55+

BHD 6			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 601	Topsoil	Dark brown silty clay	0.00-0.30
BHD 602	Natural	Light greyish brown silty clay	0.30-0.60+

BHD 8			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 801	Topsoil	Dark brown silty clay	0.00-0.32
BHD 802	Natural	Light greyish brown with red and yellow hue silty clay	0.32+

BHD 10			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 1001	Topsoil	Dark brown silty clay	0.00-0.28
BHD 1002	Subsoil	Dark to mid brown sandy silt clay	0.28-0.55
BHD 1003	Natural	Mid grey sandy clay	0.55-0.60+

BHD 13			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 1301	Topsoil	Dark greyish brown silty clay	0.00-0.27
BHD 1302	Natural	Mid grey sandy silty clay	0.27-1.20

BHD 14			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 1401	Topsoil	Dark greyish brown silty clay	0.00-0.21
BHD 1402	Subsoil	Mid grey brown sandy silty clay	0.21-0.44
BHD 1403	Natural	Light brownish grey silty clay	0.44+

BHD 16/ WSD 16			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
BHD 1601	Topsoil	Light greyish brown clayey sand	0.00-0.60
BHD 1603	Natural	Greyish to yellow to orange sandy clay	0.60+

TPD 2			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 201	Topsoil	Dark brown sandy silt	0.00-0.33
TPD 202	Natural	Bedrock	0.33+

TPD 3			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**

TPD 301	Topsoil	Dark brown sandy silt	0.00-0.35
TPD 302	Natural	Light grey sandy silt	0.35+

TPD 4			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 401	Topsoil	Greyish brown silty sand	0.00-0.33
TPD 402	Subsoil	Brownish yellow silty sand	0.33-0.50
TPD 403	Natural	Sandy brownish yellow gravel	0.50+

TPD 7			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 701	Topsoil	Mid brown silty sand	0.00-0.15
TPD 702	Subsoil	Lighter brownish yellow silty sandy clay	0.15-0.45
TPD 703	Natural	Sandy brownish yellow gravel	0.45+

TPD 8			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 801	Topsoil	Light greyish brown silty sand	0.00-0.20
TPD 802	Subsoil	Greyish brown silty clayey sand	0.20-0.40
TPD 803	Natural	Reddish orange clayey sand	0.40+

TPD 9			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 901	Topsoil	Mid brown clayey sand	0.00-0.25
TPD 902	Subsoil	Light brown sandy gritty clay	0.25-0.50
TPD 903	Natural	Light brown sandy silty clay	0.50-0.70

WSD 12			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 1201	Topsoil	Light brown sandy clay	0.00-0.60
TPD 1202	Natural	Brownish orange mottled sandy clay	0.60+

WSD 13			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 1201	Topsoil	Grey brown sandy clay	0.00-0.30
TPD 1202	Natural	Brownish orange mottled sandy clay	0.30+

WSD 14			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 1401	Topsoil	Light brown clayey sand	0.00-0.40
TPD 1402	Natural	Greyish brown silty clayey sand and gravel	0.40+

WSD 16			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
TPD 1601	Topsoil	Greyish brown sandy clay	0.00-0.30
TPD 1602	Natural	Greyish yellow brown orange mottled sandy clay	0.30+

WSD 17			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSD 1701	Topsoil	Greyish brown clayey sand	0.00-0.40
TPD 1702	Natural	Brownish grey to yellow clayey sand	0.40+

WSD 22			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSD 2201	Topsoil	Greyish brown clayey sand	0.00-0.30
TPD 2202	Natural	Yellowish grey orangey brown mottled clay	0.30+

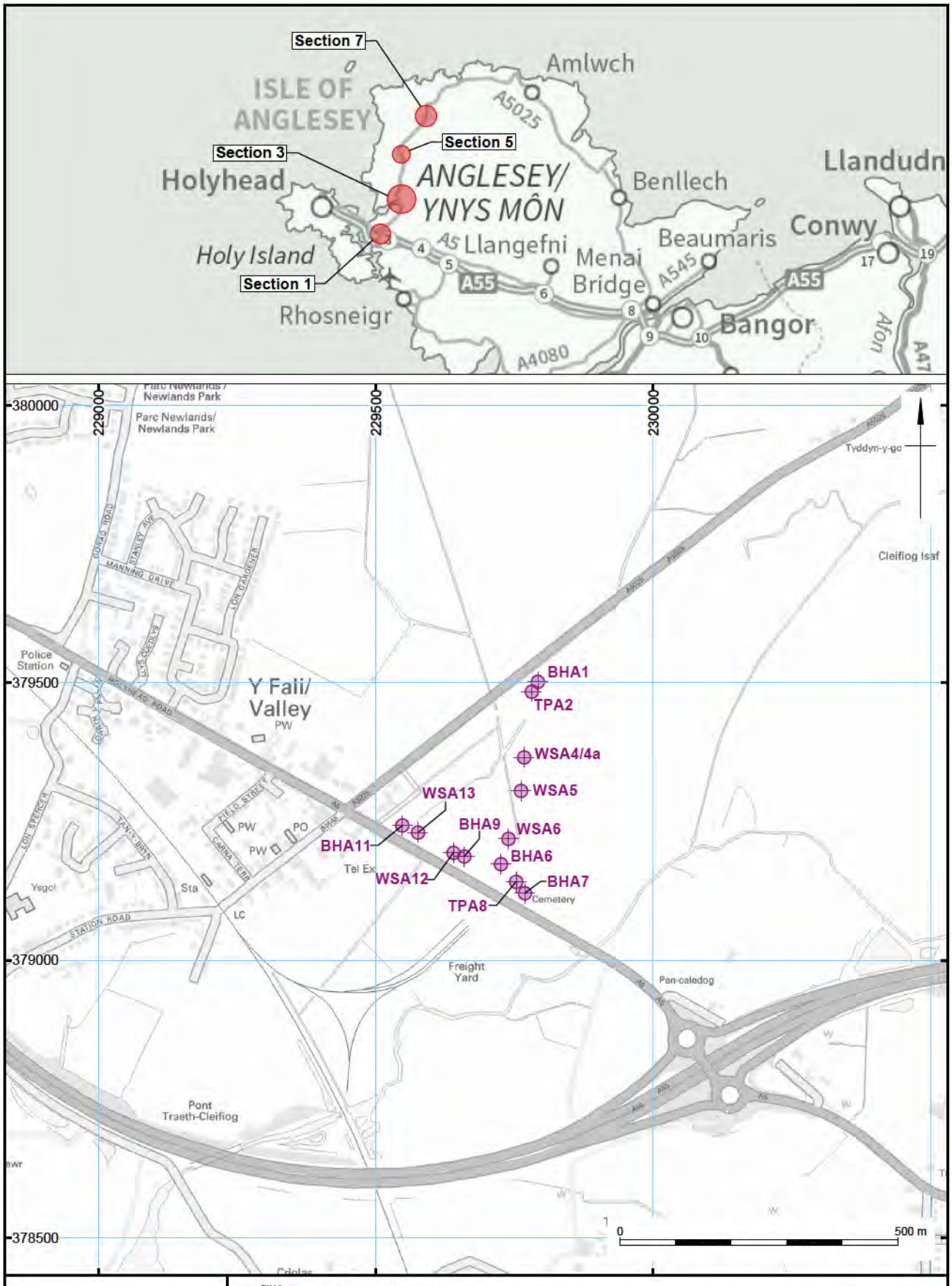
WSD 24			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSD 2401	Topsoil	Mid brown clayey sand	0.00-0.80
WSD 2402	Natural	Brownish orange sandy clay	0.80+

WSD 27/27a			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSD 2701	Topsoil	Light brown sandy clay	0.00-0.45
WSD 2702	Natural	Brownish orange clayey sand	0.45+

WSD 28			Dimensions: 1 mx1 m
Context	**Type**	**Description**	**Depth (m BGL)**
WSD 2801	Topsoil	Light greyish brown sandy clay	0.00-0.45
WSD 2802	Natural	Brownish orange clayey sand	0.45+

WSD 28A			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
WSD 28A01	Topsoil	Light greyish brown sandy clay	0.00-0.20
WSD 28A02	Natural	Greyish sandy gravel layer	0.20+

WSD 28B			**Dimensions: 1 mx1 m**
Context	**Type**	**Description**	**Depth (m BGL)**
WSD 28B01	Topsoil	Light greyish brown sandy clay	0.00-0.20
WSD 28B02	Natural	Greyish sandy gravel layer	0.20+



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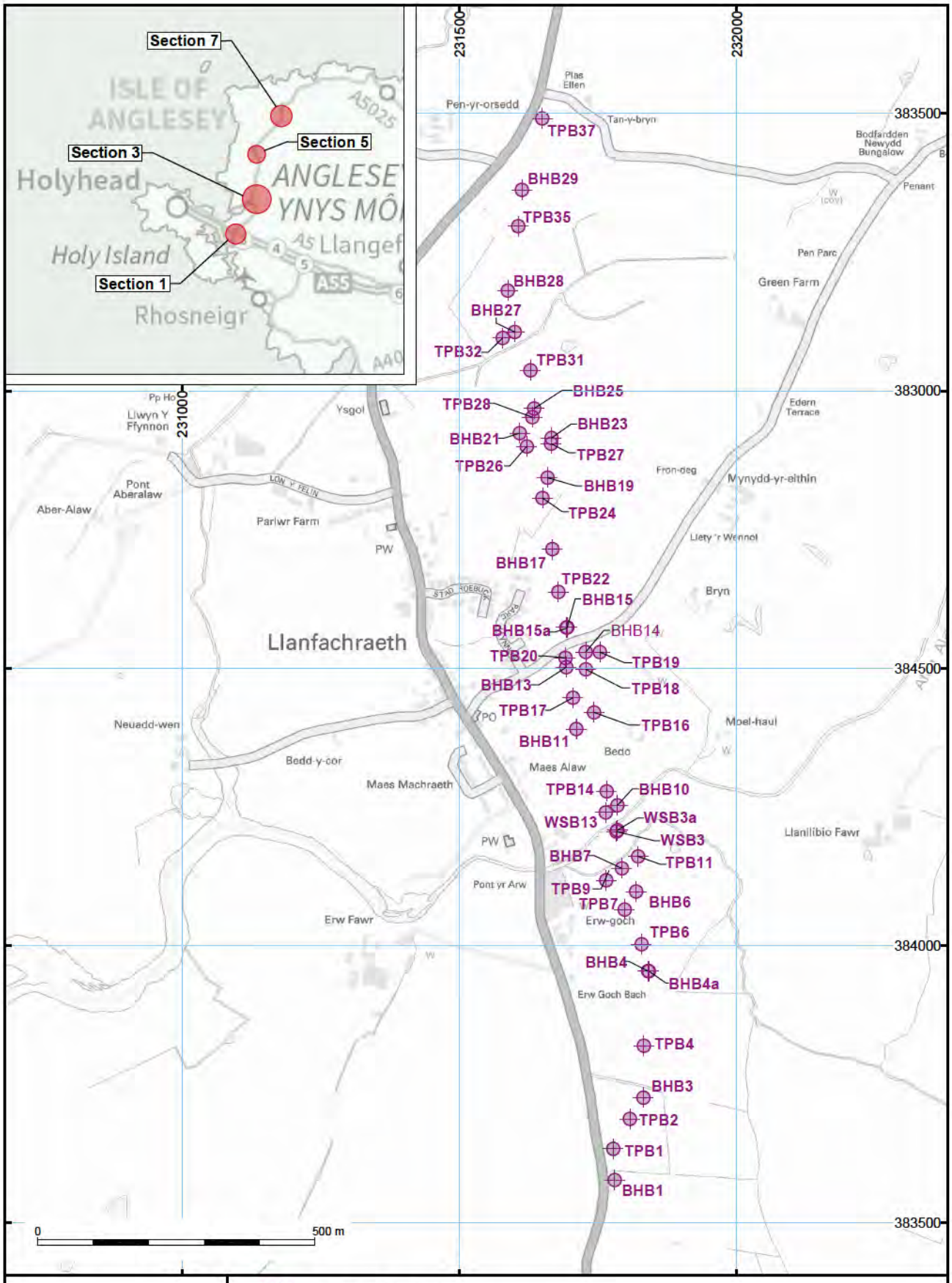
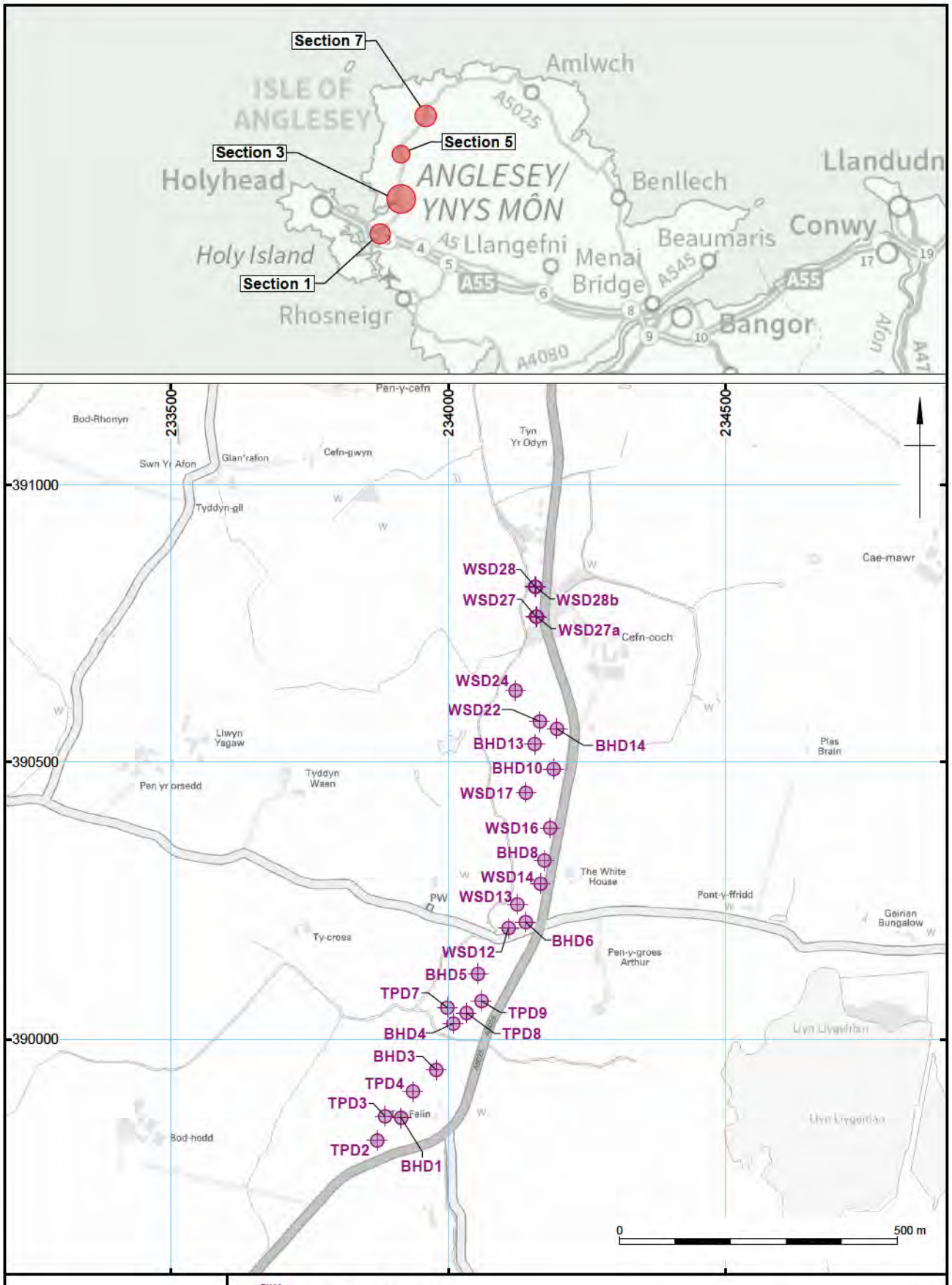
Section 1 location of all Ground Investigation Works

Figure 1



Section 3 location of all Ground Investigation Works

Figure 2



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Section 7 location of all Ground Investigation Works

Figure 3

Plate 1: Section 3 overview

Plate 2: Section 7 overview

Date:	09/06/2016	Revision Number:	0
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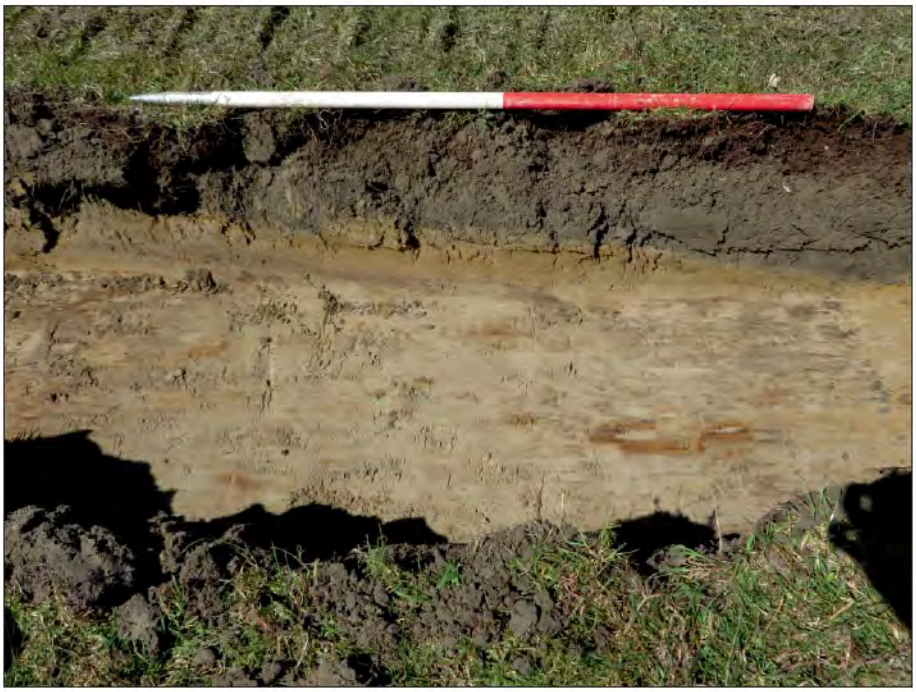

Plate 3: Section 1 representative section (TPA2)

Plate 4: Representative borehole from Section 1 (BHA7)

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Plate 5: Representative trial pit from Section 1 (TPA2)

Plate 6: Section 3 representative section (TPB6)

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Plate 7: Representative borehole from Section 3 (BHB13)

Plate 8: Representative trial pit from Section 3 (TPB9)

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Plate 9: Section 7 representative section (TPD8)

Plate 10: Representative borehole from Section 1 (BHD8)

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Plate 11: Possible trackway layer in BHD5

Date:	09/06/2016	Revision Number:	0
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