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LUGANO GROUP LTD

LAND AT BIRNEY HILL, PONTELAND, NORTHUMBERLAND

ARCHAEOLOGICAL EVALUATION REPORT

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JANUARY 2015

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Wardell Armstrong Archaeology is the trading name of Wardell Armstrong LLP, Registered in England No. OC307138.

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SUMMARY

Wardell Armstrong Archaeology was commissioned by Lugano Group Ltd, to undertake an archaeological evaluation at Land at Birney Hill, Ponteland, Northumberland (NGR NZ 1497 6992). This work was prior to the commencement of a planning enquiry for the construction of a mixed use development (Planning Ref. 13/00132/OUTES, Appeal Ref. APP/P2935/A/14/2217), which will include up to 280 dwellings, retail space and a community farm with associated landscaping, open space and access.

The work was required as an archaeological desk-based assessment undertaken for the proposed development, had determined that there is potential for archaeological remains to survive within the site, which has remained agricultural land throughout the medieval and post-medieval periods. This identified the site to be of archaeological interest.

As a result, a geophysical survey of the site was undertaken by Wardell Armstrong Archaeology, which detected a limited number of possible soil-filled features of possible archaeological origin. Evidence for ridge and furrow cultivation was also detected at the site, some of which may be medieval or post-medieval in date. These remains appeared to be best-preserved close to Birney Hall and on the north and east sides of the site. Numerous anomalies were also detected across the majority of the site, which were interpreted in the report as being geological or fluvial features in origin (Railton 2014a).

The archaeological trial trench evaluation was undertaken over 20 days between the 24th of November and the 19th of December 2014. The evaluation involved the excavation of 89 trenches total targeting the areas of greatest impact under the proposed scheme.

Archaeological features were encountered in several trenches across the proposed development area, ranging in date from possible Bronze Age features to the medieval period. A number of ring ditches were revealed by the work, which are indicative of prehistoric activity. A large decorated sandstone boulder was also recovered, which was not in its original location, but is a rare find of archaeological significance. One face of the boulder was covered in cup and ring decoration, which is likely to be of Late Neolithic to Bronze Age date.

An Anglo-Saxon copper alloy strap end was recovered from the site and may indicate possible habitation at this site during the 9th century, although it was found along with a small assemblage of 1st to 2nd century Roman pottery. The assessment of the soil samples from the site has also demonstrated that many of the archaeological features produced charred remains of plants which are of archaeobotanical interest.

ACKNOWLEDGEMENTS

Wardell Armstrong Archaeology (WAA) thanks Lugano Group Ltd for commissioning the project, and for all assistance throughout the work. Wardell Armstrong Archaeology also thanks Karen Derham, Assistant County Archaeologist at Northumberland County Council, for her assistance throughout the project.

Wardell Armstrong Archaeology also extends their thanks to the Colton Group and all their staff for their help during this project.

The archaeological evaluation was undertaken by Diana Chard, Damion Churchill, Clara Dickinson, Karen Duignan, Kevin Horsley, Mike McElligott, Kevin Mounsey, Helen Phillips and Sue Thompson. The report was written by Damion Churchill and Ben Moore and the drawings were produced by Adrian Bailey. The project was managed by Martin Railton, Senior Project Manager for WAA.

1 INTRODUCTION

1.1 Circumstances of the Project

- 1.1.1 In November 2014 Wardell Armstrong Archaeology were invited by Lugano Group Ltd to undertake an archaeological evaluation at Land at Birney Hill, Ponteland, Northumberland (NZ 1497 6992) (Figure 1), prior to the commencement of a planning enquiry for a proposed mixed use development.
- 1.1.2 An archaeological desk-based assessment undertaken for the proposed development has determined that although there are no recorded heritage assets within the proposed development area, there is potential for archaeological remains to survive within the site, which has remained agricultural land throughout the medieval and post-medieval periods. Nearby notable sites include Hadrian Wall, a portion of “the Frontiers of the Roman Empire” World Heritage Site c. 1.6km to the south and a round cairn at Heddon Laws Farm c. 0.60km west southwest of the site.
- 1.1.3 As a result a geophysical survey of the site was undertaken by Wardell Armstrong Archaeology, which detected a limited number of possible soil-filled features, of potential archaeological origin. Evidence for ridge and furrow cultivation was also detected at the site, some of which may be medieval or post-medieval in date. These remains appeared to be best-preserved close to Birney Hall and on the north and east sides of the site. Numerous anomalies were also detected across the majority of the site, which were interpreted in the report as being geological or fluvial features in origin (Railton 2014a).
- 1.1.4 The geophysical results along with previous archaeological investigation within the vicinity of the site, suggested the potential presence of archaeological remains within the development area. It was therefore agreed with Karen Derham, Assistant County Archaeologist, Northumberland County Council (NCC) that an archaeological trial trench evaluation was to be undertaken at the site, prior to the commencement of the planning inquiry, in order to determine the archaeological potential of the site. This is in line with government advice as set out in Section 12 of the National Planning Policy Framework (NPPF 2012).
- 1.1.5 The archaeological evaluation was undertaken following approved standards and guidance (IfA 2008), and in accordance with an agreed project design (Railton 2014b), which was submitted to, and approved by, NCC prior to the fieldwork taking place.

1.1.6 This report outlines the evaluation works undertaken on-site, the subsequent programme of post-fieldwork analysis, and the results of this scheme of archaeological works.

2 METHODOLOGY

2.1 Project Design

2.1.1 A project design was submitted by Wardell Armstrong Archaeology in response to a request by Lugano Group Ltd, for an archaeological evaluation of the study area (Railton 2014b). Following acceptance of the project design by Karen Derham, Assistant County Archaeologist at Northumberland County Council, Wardell Armstrong Archaeology was commissioned by the client to undertake the work. The project design was adhered to in full, and the work was consistent with the relevant standards and procedures of the Institute for Archaeologists (IfA).

2.2 The Field Evaluation

2.2.1 The evaluation as described in the Project Design comprised 6,900m² of trenching in total to provide a 2% sample of the areas of greatest impact under the proposed scheme, including three areas of housing and new access roads (the main development zones) and landscape mounds/areas of dense planting. This involved the excavation of sixty nine 50m by 2m trenches in total. Trench positions were determined in consultation with Karen Derham at Northumberland Conservation, with a contingency for a further 1% sample being agreed, in order to answer any specific questions that may arise during the course of the fieldwork.

2.2.2 The overall aim of the evaluation was to establish the nature and extent of below ground archaeological remains within the vicinity, the evaluation trenches being located to target both geophysical anomalies and apparently 'sterile' areas. During the course of the project, a number of areas revealed archaeological remains, and a further twenty trenches were excavated at the request of NCC in order to help clarify the extent of the archaeological remains. The total evaluation therefore comprised the excavation of eighty nine trenches.

2.2.3 In summary, the main objectives of the field evaluation were:

- to establish the presence/absence, nature, extent and state of preservation of archaeological remains and to record these where they were observed;
- to establish the character of those features in terms of cuts, soil matrices and interfaces;
- to recover artefactual material, especially that useful for dating purposes;
- to recover palaeoenvironmental material where it survives in order to understand site and landscape formation processes.

- 2.2.4 Turf and topsoil was removed by mechanical excavator under close archaeological supervision. The trial trenches were subsequently cleaned by hand and all features were investigated and recording according to the Wardell Armstrong Archaeology standard procedure as set out in the Excavation Manual (Giecco 2012).
- 2.2.5 All finds encountered were retained, including those from excavated topsoil, and were cleaned and packaged according to standard guidelines, and recorded under the supervision of Megan Stoakley, WWA Finds Officer.
- 2.2.6 The 89 evaluation trenches were scheduled to be backfilled at the discretion of the client, following excavation and recording.
- 2.2.7 The fieldwork programme was followed by an assessment of the data as set out in the Management of Archaeological Projects (2nd Edition, 1991).

2.3 The Archive

- 2.3.1 A full professional archive has been compiled in accordance with the specification, and according to the Archaeological Archives Forum recommendations (Brown 2011). The archive will be deposited within the Great North Museum, with copies of the report sent to the County Historic Environment Record at Morpeth, Northumberland, available upon request. The archive can be accessed under the unique project identifier WAA14 BHP-A, CP 11190.
- 2.3.2 Wardell Armstrong Archaeology and Northumberland County Council, support the **Online AccesS to the Index of Archaeological InvestigationS (OASIS)** project. This project aims to provide an on-line index and access to the extensive and expanding body of grey literature, created as a result of developer-funded archaeological work. As a result, details of the results of this project will be made available by Wardell Armstrong Archaeology as a part of this national project.

3 BACKGROUND

3.1 Location and Geological Context

3.1.1 The site comprises 20 fields north of Birney Hill Farm, situated south of the outskirts of Ponteland in Northumberland (Figure 1). This area is bound by Callerton Lane (B6323) to the east, Birney Hill and Stamfordham Road to the south, Western Way to the west, and modern housing to the north (Birney Court, Hadrian Court, Greenacres and Dynecourt Close). The site is centred on Ordnance Survey grid reference NZ 1497 6992 and measures approximately 81ha in total.

3.1.2 The underlying geology is Pennine Lower Coal Measures Formation - Mudstone, Siltstone and Sandstone. Sedimentary Bedrock formed approximately 312 to 313 million years ago in the Carboniferous Period (BGS 2001). These are overlain by Till, Devensian – Diamicton, and Glaciofluvial Deposits, Devensian - Sand and Gravel. The superficial deposits were formed up to 2 million years ago in the Quaternary Period (BGS 2001).

3.2 Historical Context

3.2.1 *Introduction:* this historical background is compiled mostly from secondary sources, and is intended only as a brief summary of historical developments specific to the study area. References to the County Historic Environment Record (HER) are included where known.

3.2.2 **Prehistoric:** there is evidence for prehistoric activity in the area, including a Bronze Age burial cairn to the west of the site at Heddon Laws Farm, located on top of a natural hill. The site is a Scheduled Monument (Monument No ND/160). A number of Mesolithic flints have been recovered nearby.

3.2.3 A rectangular crop mark, believed to be a possible late prehistoric enclosure has also been identified on air photographs to the east of the site at Brough Hill.

3.2.4 **Romano British:** there is no known evidence for Roman activity at the site or within Ponteland. However, it has been noted that the proximity of Hadrian's Wall, located only 6km to the south, local inhabitants '*must have been well within the "protection zone"*'. Reference has also been made by Almond and Stobbs to a Roman road running through the settlement, crossing the Pont, where it flows behind Darras Hall Estate to the north of the proposed development area (Almond and Stobbs 1984, 5).

3.2.5 **Medieval:** St Mary's at Ponteland dates to the 12th century, although there is some evidence that there may have been an earlier building on the site of the present

church. Ponteland was an agricultural village in the medieval period, and still has a number of medieval buildings, the best known of which is the Blackbird Inn which once formed part of a 13th or 14th century fortified house.

3.2.6 *Post-medieval and Modern:* the majority of the proposed development area has been agricultural in character throughout the post-medieval and modern periods. Birney Hall, which is located within the centre of the site, is a Grade II Listed Building (English Heritage Building No 238780) constructed in the 17th or early 18th century, but is in residential use and is not part of the proposed development. It is approached from the south along a tree-lined avenue. Birney Hill Farmhouse was built in 1837 and is also a Grade II Listed Building on the south side of the site. It was formerly known as Forge Cottage. Next to the farm is a Grade II Listed former windmill, built in the 18th or 19th century.

3.2.7 Industry in Ponteland during the 19th century was small-scale, being a completely rural community. Writing in 1926, Dodds noted that Ponteland was a large village, fast developing into a suburb of Newcastle, especially since the opening of the Gosforth and Ponteland Railway in 1905 (Dodds 1926, 445).

3.2.8 Historic Ordnance Survey maps of the site, depict the proposed development area as agricultural, with a similar pattern of fields as today, surrounded by further agricultural land. The main thrust of housing development came in the 1960s when large-scale builders bought up blocks of land and built estates both on Darras Hall and in the environs of the earlier village. The Council also purchased blocks of farmland near the village to create an industrial estate as well as public facilities such as a clinic and library. The small rural community which had numbered around 400 throughout the 19th century, had expanded to a large residential area to the north of the proposed development area with a population of c.14,000 by 1984 (Almond and Stobbs 1984, 40).

3.3 Previous Archaeological Work

3.3.1 Geophysical surveys were conducted in 2014 by Wardell Armstrong Archaeology (Railton 2014a). The objective of the geophysical survey was to determine the presence/absence, nature and extent of potential archaeological features within the study area, and the presence/absence of any known modern features within the survey area, which may affect the results.

3.3.2 The surveys detected a number of modern features, including service pipes, and possible land drains. Anomalies that were interpreted as an extensive series of geological features were also detected across the majority of the site, the presence of which was confirmed during the trial trench evaluation. A number of possible soil-filled features were also detected, which were targeted during the subsequent investigation.

4 ARCHAEOLOGICAL EVALUATION RESULTS

4.1 Introduction

4.1.1 The evaluation was undertaken between the 24th of November and the 19th of December 2014, with 89 trenches excavated across 17 fields at the site in total (Figure 2). The trenches were located to sample both the anomalies detected during the geophysical surveys (Areas 1-18), and apparently 'blank' areas of the site, with the 20 additional trenches excavated in agreement with NCC to clarify the results. Geophysical survey Areas 19 and 20 were excluded from the programme of trial trenching as there was no permitted access to these areas at the time of the trenching.

4.1.2 To the west of Birney Hall, 40 trenches were excavated across 5 fields, identified as Geophysics Areas 7, 8, 9, 10 and 12. These fields were bounded by Stamfordham Road to the south, western way to the west and modern housing forming the outskirts of Ponteland to the north.

4.1.3 To the east of Birney Hall, 49 trenches were excavated across 11 fields, Geophysics Areas 1 – 6, 11 and 14 - 18. These fields were bounded by Birney Hill to the south, the B6323 to the east and modern housing forming the outskirts of Ponteland to the north

4.1.4 Full trench descriptions are included in Appendix 1 of this document, but are described below, by area.

4.2 Results

4.2.1 **Area 1:** Two trenches, Trench 46 and Trench 47, were excavated to sample possible soil-filled features in Area 1, which was located at the south of the site (Figure 2). Both measured 50m long, 2m wide and up to 0.38m of topsoil was removed from each trench to reveal the underlying deposits.

4.2.2 Subsoil, up to 0.20m thick was located in both trenches and comprised moderately compact silty sand.

4.2.3 The natural geology observed in Area 1 was variable; comprising stiff clay in Trench 46, and friable sand in Trench 47. The maximum height of the natural geology ranged between 134.38m aOD in Trench 47 to 131.28m aOD in Trench 46 due to the incline of the hill on which the field was situated.

- 4.2.4 Although trenches were placed to target anomalies identified in the 2014 geophysical investigation, these anomalies were confirmed as natural in origin, with an outcrop of sandstone bedrock observed at the northern limits of Trench 46 and a clay deposit recorded in the southern end of Trench 47.
- 4.2.5 No archaeological remains were identified in either Trenches 46 or 47.
- 4.2.6 **Area 2:** Four trenches, 34, 35, 36 and 89 were excavated within Area 2, located in the centre of the site in order to sample geophysical anomalies (Figure 2). Each measured 50m in length and 2m in width. Up to 0.21m of topsoil was removed from each trench to reveal the underlying deposits.
- 4.2.7 Subsoil, up to 0.40m thick was observed across the trenches and comprised brown silty clay.
- 4.2.8 The natural geology in Area 2 was predominantly sandy clay. The height of the geology ranged from 130.73m aOD in the southern end of Trench 35 to 125.23m aOD at the northern end of Trench 34.
- 4.2.9 The anomalies identified in the 2014 geophysical survey were largely absent when the natural geology was cleaned and recorded in Area 2. The curvilinear anomaly located to the south of, and continuing into the western end of Trench 36, was revealed to be an outcrop of sandstone.
- 4.2.10 No archaeological features were identified in the trenches within Area 2.
- 4.2.11 **Area 3:** A total of four trenches were excavated in Area 3. The four trenches, Trenches 37 – 40, were spaced evenly across Area 3 which was situated in the centre of the site (Figure 2). Three trenches, 38, 39 and 40 were placed to target linear anomalies identified in the 2014 geophysical survey.
- 4.2.12 No archaeological features were encountered in Trenches 38, 39 and 40 although a north-south aligned land drain revealed in Trench 40 seems to be the feature detected during the geophysical survey. The natural geology in these three trenches was consistently mid orange brown sandy clay and ranged in height between 127.54m aOD and 130.17m aOD.
- 4.2.13 Trench 37 (Figure 3) contained a 1.08m wide, 0.35m deep north north-west to south south-east aligned u-shaped ditch [3703], located 11.8m from its west south-western end. This feature was not detected by the geophysical survey. Another 7m further east north-east, a linear feature [3705] was recorded running parallel to [3703]. It was 1.58m wide, 0.16m deep, with vertical sides and a flat base. It seems

likely that this was a change in the natural geology rather than an archaeological feature.

- 4.2.14 **Area 4:** Two trenches, Trench 29 and Trench 30 were excavated within Area 4, located immediately east of Birney Hall, at the request of NCC. Each trench measured 50m in length by 2m in width, with up to 0.30m of topsoil removed from each to reveal the underlying deposits.
- 4.2.15 A moderately firm silty clay deposit of subsoil, up to 0.30m thick was observed across both trenches.
- 4.2.16 The natural geology in Area 4 was a firm silty clay. Due to the slope on which Area 4 was situated, the maximum height of the geology differed from 128.43m aOD in Trench 30, to 132.85m aOD in Trench 29.
- 4.2.17 No archaeological remains were identified in either Trenches 29 or 30.
- 4.2.18 **Area 5:** A single trench was excavated of Area 5 on the south of the site in order to sample this area. Trench 48 was towards the south-eastern boundary of Area 5 and measured 50m long and 2m wide. Up to 0.15m of topsoil was removed to reveal a 0.15m thick soft silty clay subsoil.
- 4.2.19 The natural geology was a yellow-orange firm silty clay, which had the maximum height of 136.94m aOD.
- 4.2.20 No archaeological features were observed in Trench 48.
- 4.2.21 **Area 6:** Two trenches, Trench 44 and Trench 45 were excavated within Area 6, located on the south side of the site to sample an apparently 'blank' area in the geophysical survey. Both trenches were 50m long and 2m wide with up to 0.15m of topsoil removed from each to reveal the underlying deposits.
- 4.2.22 Soft brown silty clay subsoil up to 0.14m thick was located within both trenches, overlying yellow brown silty clay. The natural geology in Area 6 had a maximum height of 134.79 aOD. No archaeological features were recorded in Area 6.
- 4.2.23 **Area 7:** Six trenches, Trenches 14, 69 and 85 - 88 were excavated within Area 7, located on the south side of the site, and immediately west of the driveway leading to Birney Hall. Each trench measured 50m long and 2m wide. Up to 0.30m of topsoil was removed to reveal the underlying deposits. These trenches were positioned to target a number of possible soil-filled ditches detected by the geophysical survey.

- 4.2.24 Brown silty clay subsoil was observed within each trench. Beneath the subsoil, the natural geology comprised stiff orange brown to yellow brown silty clay overlying sandstone bedrock. The maximum height of the geology differed from 136.15m aOD in Trench 85, to 139.58m aOD in Trench 87.
- 4.2.25 A single ditch **[1403]** was observed within Trench 14 (Figure 4), located towards the western limit of Area 7. This ditch corresponded with an anomaly identified during the 2014 geophysical survey. The northeast – southwest oriented ditch measured 1.7m wide, 0.51m deep and had steep sides leading to a rounded base. The ditch contained two fills. The primary fill comprised of loose yellow brown silty clay and sandstone fragments **(1405)** which was sealed by a reddish brown silty clay **(1404)**.
- 4.2.26 Ditch **[1403]** was observed to continue into Trench 85, located to the northeast of Trench 14 (Figure 6). The northeast-southwest orientated ditch **[8504]** traversed the trench 25m from the southeast end of Trench 85. Unexcavated, the observable fill comprised of loose grey brown silty clay **(8503)**.
- 4.2.27 A small concentration of archaeological features was located in Trenches 69, 87 and 88 on the eastern side of Area 7. In Trench 69, a small ring ditch **[6903]** was investigated at the southern end of the trench (Figure 5). The diameter of the ring ditch was 4.10m and it extended from and continued into the southwest facing baulk. The ditch **[6903]** measured 0.32m wide, 0.13m deep and contained compact grey brown silty clay with occasional sandstone inclusions **(6904)**. No internal features were identified.
- 4.2.28 Three ditches were located towards the centre of Trench 69. Ditch **[6905]** was 0.44m wide, 0.56m deep, and its sole fill, was soft brown grey clayey silt **(6906)**. The steep edges and flat base of ditch **[6905]** contrasted sharply with ditch **[6909]**, located 4.75m to the north. Ditch **[6909]** had gentle sloping edges leading to a rounded base which contained a single fill of soft grey brown clayey silt **(6910)**. Ditch **[6909]** was cut on its northern edge by ditch **[6907]** which had a “V” shaped profile and measured 1.10m wide and 0.60m deep. The sole fill of ditch **[6907]** was soft brown grey clayey silt **(6908)** containing lenses of charcoal material (Plate 1).



Plate 1: East north-east facing section of ditches [6907] and [6909]

- 4.2.29 These ditches corresponded with anomalies identified in the 2014 geophysical survey, and were seen to continue into the north-eastern end of Trench 87 (Figure 7). In this trench the ditches are closely grouped together with ditches [8703] and [8705] cut by ditch [8707]. Due to the shallowness to the ditches and the similarity in fills, each comprised of soft dark grey silty clay, it is not possible to establish which ditch corresponds with which between Trenches 69 and 87.
- 4.2.30 The largest concentration of features was identified in Trench 88 (Figure 8). At the south-eastern extent of Trench 88, a small ditch [8833] was observed to span the trench on an east-northeast to west-southwest orientation. The ditch measured 0.20m wide and 0.20m deep and its sole fill consisted of soft dark grey silt (8834). To the northeast of ditch [8833], a ring ditch [8830] was observed extending from the northwest facing baulk and curving to the east. With a flat base and steep edges, the ditch [8830] contained cobbles (8835), which were enveloped by soft mid grey silty clay (8831).
- 4.2.31 To the northwest of ring ditch a set of three ditches were observed spanning Trench 88 (Plates 2 & 3). The earliest ditch [8812] was re-cut [8838] and contained a single soft sandy clay fill (8818) within its 0.25m wide “U” shaped profile. The re-cut [8838] was shallow, measuring up to 0.15m deep. The fill of the re-cut was soft dark grey silt (8813) containing occasional flecks of charcoal. Both ditch [8812] and its re-cut [8838] were oriented northeast – southwest.

- 4.2.32 A small ditch **[8814]** was observed to cut the ditch re-cut **[8838]**. Ditch **[8814]** contained two fills of which the primary consisted of moderately compact greyish orange silty clay **(8820)**. This deposit was overlain by soft dark grey silt **(8815)**. Ditch **[8814]** extended from the north-east facing baulk on a north – south orientation and was completely removed by the last ditch in the sequence **[8816]**. This ditch **[8816]** contained two fills, the earlier comprised of dark grey silty clay **(8832)**, which was sealed by a 0.10m thick deposit of sandy silty clay **(8817)** containing poorly sorted pebbles.
- 4.2.33 The remaining archaeological features in Trench 88 comprised features possibly associated with a structure. A small ditch **[8827]**, measuring 3.8m long and 0.20m wide and filled with a 0.18m thick deposit of moderately compact brown silt **(8828)**, and was cut by a small pit **[8836]**. The sub-circular pit **[8836]** measured up to 0.46m in diameter and was filled by moderately compact brown silt with sandstone inclusions **(8837)**.
- 4.2.34 Both the small ditch **[8827]** and the pit **[8836]** were encompassed by ring ditch **[8825]**, indicating that they were possibly internal features within a structure. The ring ditch **[8825]** had steep sides, with a gradual break of slope leading to a concave base. The fill consisted of moderately compact brown silt **(8826/8829/8839)**.
- 4.2.35 A further possible ring ditch **[8821]/[8823]** filled with silt and large quantities of angular and sub-rounded cobbles **(8822)/(8824)** was identified possibly further encompassing ring ditch **[8825]**. The outer ring ditch **[8821]/[8823]** measured up to 0.19m wide and 0.24m deep and was cut at its southern most extent by a possible ditch **[8809]**. Extending from the south-western facing baulk, ditch **[8809]** was oriented broadly north-south and measured 0.70 m wide, 0.40m deep and was filled by loose mid grey silt **(8810)**.
- 4.2.36 The full extent of ditch **[8809]** was not observed as it was cut by posthole **[8803]**, which was possibly associated with postholes **[8805]** and **[8807]**. Pit **[8803]** was the largest with a diameter up to 0.65m and depth of 0.40m, vertical sides with a sharp break of slope leading to a rounded base. It contained three fills, the earliest composed of dark grey brown clayey silt **(8819)**, overlain by a 0.20m thick deposit of loose orange brown sandy clay **(8811)**. The final fill comprised soft mid grey brown clayey silt **(8804)**.
- 4.2.37 The fills of postholes **[8805]** and **[8807]** was broadly similar to fill **(8804)** of pit **[8803]** comprised of soft mid grey brown silty clay, **(8806)** and **(8807)** respectively. The

function of both postholes [8805] and [8807] can be defined as each had vertical edges with a sharp break of slope leading to a flat base, and the fill of each containing fragmented sandstone, which may have acted as a packing material.

4.2.38 No datable archaeological material was recovered from the fills of the features within Trench 88.



Plate 2: Ring gullies in Trench 88, facing north



Plate 3: Ring gullies in Trench 88, facing south

- 4.2.39 **Area 8:** This area contained one 50 metre long, 2 metre wide north-south aligned trench (Trench 15). This was positioned to investigate a blank area in the geophysical survey results at the request of NCC. No archaeological features were encountered. The natural light brown compacted clay (**1502**) was a maximum of 131.84m aOD.
- 4.2.40 **Area 9:** This area contained five trenches, each measuring 50 x 2 m. Trenches 9, 11 and 12 were positioned to investigate a series of east-west aligned geophysical anomalies, whilst Trenches 10 and 13 were situated to test blank areas of the survey.
- 4.2.41 Trench 9 was aligned north-south and was excavated through top and subsoil onto light orange brown compact clay natural geology between 125.98m aOD to the north and 129.32m aOD at the south end of the trench. No evidence of archaeological features was found, the geophysical anomalies it was positioned to investigate probably being a result of the topography/geology. Nevertheless, a large boulder inscribed with cup and ring marks was removed during excavation. This significant find (Small Find 1) is described fully in the finds assessment (Chapter 5). A hollow in the natural clay was recorded within the trench where the stone was positioned before removal (Figure 9), but it seems unlikely that this is where the stone had originally been positioned. No associated archaeological features were identified.
- 4.2.42 Trench 10 was aligned north-east to south-west and contained no archaeologically significant features. A furrow was noted running north-west to south-east across the north-eastern end of the trench, and a tree bole (**1002**) was investigated towards the centre. The trench was excavated through topsoil onto yellowish brown natural clay at a maximum of 127.99m aOD.
- 4.2.43 Trench 11 was aligned north-west to south-east and was excavated through top and subsoil to the top of orange/grey clay at a height of between 130.83m aOD and 133.05m aOD. It was situated to investigate two east-west linear geophysical anomalies. No archaeological features were encountered but a modern land drain and a band of sand in the natural geology may be the anomalies picked up during the survey.
- 4.2.44 A 0.46m in diameter, 0.18m deep possible posthole [**1203**] was recorded 24 metres from the north north-west end of Trench 12 (Figure 10). The trench was excavated through top and subsoil onto the top of orange brown clay natural geology at between 128.11m aOD and 131.48m aOD. Variations in the natural geology in the form of a stony patch and a band of sand may have produced the geophysical anomalies that the trench was positioned to investigate.

- 4.2.45 Trench 13 was aligned west north-west to east south-east and positioned in a blank area of the geophysical survey. It was excavated through around 0.45m of top and subsoil onto yellow and grey clay natural geology with bands of sand at between 131.52m aOD and 131.75m aOD. No archaeological features or deposits were encountered.
- 4.2.46 **Area 10:** Fourteen trenches were excavated in Area 10. All original trenches except Trench 22 were positioned to test blank areas in the geophysical survey. Trench 22 was excavated to investigate a north-east to south-west aligned linear geophysical anomaly. Trenches 76-84 were additional trenches excavated to clarify the results of the evaluation in this area.
- 4.2.47 Trench 16 was 50m long, 2 metres wide and aligned north-west to south-east. The trench was excavated through c.0.4m of top and subsoil to the top of orange brown silty clay natural geology at between 124.56m aOD and 126.12m aOD. No archaeological features were revealed.
- 4.2.48 A partial ring gully [**1703, 1705**] and a north-south aligned ditch [**1707**] were recorded in Trench 17 (Figure 11, Plate 4). The trench was aligned north-west to south-east, forming a cross with Trenches 76 and 77. It was excavated through c0.45m of top and subsoil onto the yellow / orange clay natural geology at between 122.34m aOD and 123.32m aOD. The possible ring gully terminated 18.7 metres from the north-west end of the trench, but as it is very shallow at this point it is possible that the rest of the gully has been truncated by modern farming methods. It was c. 0.25m wide and between 0.04 and 0.20m deep and filled by soft light grey silt (**1704, 1706**). No dating evidence was recovered but the gully may have formed part of a roundhouse drip gully. The north-south aligned 0.26m deep, 0.44m wide ditch [**1707**] runs 2.4m south-east of the ring gully and is filled by greyish brown silty clay (**1708**). No finds were recovered, making interpretation and dating of the ditch difficult, but it is possibly a drainage ditch associated with the adjacent ring gully.



Plate 4: North north-west facing section of ditch [1707]

- 4.2.49 Trench 18 (Figure 12) measured 50 x 2m and was aligned north-east to south-west. It was excavated through c.0.30m of top and subsoil onto mid brown compact clay natural geology at between 124.41m aOD and 124.47m aOD. A 0.6m in diameter, 0.15m deep sub ovoid pit [1803] was recorded 7.8m from the north-eastern end of the trench. It was filled by greyish brown silty clay (1804) with a moderate amount of charcoal flecks throughout. The function and date of the pit is unknown.
- 4.2.50 Trenches 20 and 21 measured 50 x 2m and oriented west north-west to east south-east. Both were excavated through c.0.3m of top and subsoil onto yellowish brown silty clay natural geology at between 120.92m aOD and 122.47m aOD. No archaeological features or deposits were encountered.
- 4.2.51 Trench 22 was excavated through 0.3m of top and subsoil onto orange brown compacted clay natural geology at between 124.05m aOD and 126.32m aOD. No archaeological features were found but there was an outcrop of bedrock at the north north-western end of the trench.
- 4.2.52 Trenches 76 and 77 formed were positioned on either side of Trench 17, forming a cross (Figure 13). These measured 4m wide with Trench 76 extending 30m south south-west but contained no archaeological features. Trench 77 contained two archaeological features at its south south-western end. A curving v-shaped ditch [7705, 7709] up to 0.92m wide and 0.42m deep is likely to be a continuation of ditch

[1707] in Trench 17. The ring gully [1703] in Trench 17 does not continue into Trench 77 and may have been truncated by modern ploughing. The western terminus of a u-shaped east-west aligned ditch [7703, 7707] was also recorded in the trench, 1.5m north north-east of ditch [7705, 7709]. It was 0.67m wide, 0.30m deep and filled with friable grey sandy silt (7706, 7710). No dating evidence was recovered from these features (Plates 5, 6 & 7). Trenches 76 and 77 were excavated through 0.6m of top and subsoil onto yellowish brown sandy silt natural geology at between 122.32m aOD and 122.78m aOD.



Plate 5: East south-east facing section of gullies [7703] and [7705]



Plate 6: Terminus of gully [7707], facing west



Plate 7: North north-west facing section of ditch [7709]

4.2.53 Measuring 50 x 2m, Trench 78 was excavated through c.0.45m of top and subsoil onto natural geology that varied between mottled orange clay and sand at between 122.41m aOD and 122.71m aOD (Figure 14). The southern terminus of a roughly north-south aligned u-shaped gully [7803] was recorded 6.5m from the south south-east end of the trench. It was up to 0.35m wide, 0.14m deep and filled by greyish

brown silty clay with charcoal flecks throughout (**7804**) but no dating evidence was recovered.

- 4.2.54 Trenches 79 and 80 contained no archaeological features although a possible relict hedge line was investigated in Trench 80. They were excavated though up to 0.4m of top and subsoil onto yellowish brown clay natural geology at between 122.53m aOD and 122.85 aOD.
- 4.2.55 A single 0.92m in diameter, 0.17m deep sub ovoid pit [**8103**] was investigated in Trench 81 (Figure 15). No dating evidence was recovered from its single fill (**8104**) and any further interpretation at this stage is not possible. The trench was aligned north-west to south-east and measured 50 x 4 metres. It was excavated through 0.45m of top and subsoil onto yellowish brown clay natural geology at between 124.16m aOD and 125.64m aOD.
- 4.2.56 Trench 83 measured 50 x 2m and was aligned north north-west to south south-east. It was excavated through c.0.4m of top and subsoil onto light brown clay natural geology at between 124.81m aOD and 126.67m aOD.
- 4.2.57 A north-west to south-east aligned v-shaped gully [**8403**] ran across the east south-eastern end of Trench 84 (Figure 16). It was 0.56m wide, 0.26m deep and no dating evidence was recovered from its single fill (**8404**). The trench measured 50 x 2m and was excavated through c0.4m of top and subsoil onto light brown clay natural geology at between 124.81m aOD and 126.67m aOD.
- 4.2.58 **Area 11:** Trenches 49 to 52 in Area 11 were positioned to test a blank area in the geophysical survey results. The trenches measured 50 x 2 metres and were excavated through c0.2m of topsoil onto yellow / orange brown natural clay at between 142.19m aOD and 144.82m aOD. There was no subsoil present in the trenches but east-west aligned plough scars were visible in all four. Trenches 49 and 50 also contained modern land drains.
- 4.2.59 **Area 12:** Fourteen 50m long trenches were excavated in Area 12. All were 2 metres wide except an additional trench (Trench 70), which measured 4 metres in width. Trenches 1 and 2 were positioned to test blank areas in the geophysical survey. The other 10 trenches were placed to investigate curvilinear anomalies that ran across the field. Trenches 70-75 were additional trenches requested by NCC.

- 4.2.60 Trench 1 was aligned north-south and was excavated through 0.35m of topsoil onto mid brown clay natural geology at a depth of between 121.42m aOD and 123.55m aOD. No archaeological features were encountered.
- 4.2.61 Trenches 2 and 70 (Figures 17 and 20) formed a T-shape and were excavated through c0.25m of topsoil onto light yellowish brown clay natural geology at between 123.51 and 126.08m aOD. Curvilinear v-shaped gullies **[203]** and **[205]** in Trench 2 (Plates 8 & 9) were c.0.4m wide and between 0.2m and 0.3m deep. They appeared to form part of a ring gully c.7m in diameter. This may not be the case however, as the ring gully does not continue into Trench 70 as would be expected. A curvilinear v-shaped gully **[7002]** was also recorded in Trench 70 and was, like the gullies in Trench 2, around 0.4m wide and 0.3m deep. It does appear to be in alignment with gully **[203]** but if is a continuation of the same feature this would mean the gullies in Trench 2 were not part of a ring gully as was at first thought. The fills of **[203]** and **[205]** comprised compact dark brown silty clay with occasional small pebbles **(204) / (206)** as was **(7003)**, fill of **[7002]**.



*Plate 8: Possible ring gully **[203]**, facing north-west*



Plate 9: Possible ring gully [205], facing north-west

- 4.2.62 Trenches 3, 4 and 5 were excavated through between 0.25m and 0.44m of top and subsoil onto orange brown clay natural geology at between 121.22m and 123.67m aOD. No archaeological features were found and the geophysical anomalies are likely to be the result of modern land drains.
- 4.2.63 Trenches 6 and 75 (Figures 18 and 23) were located to investigate the same north-south aligned linear geophysical anomaly. This was proved to be a c1.6m wide, 0.44m deep ditch [605 / 7504] filled by mid orangey brown silty clay. This was left unexcavated in Trench 6. No finds were encountered in the single fill (7503) of ditch [7504].
- 4.2.64 The eastern terminus of a 0.42m wide, 0.46m deep east-west aligned gully [603] was investigated at the far south-western end of Trench 6. Its single dark brown silty clay fill (604) contained no dating evidence.
- 4.2.65 A series of three shallow subcircular pits [7505, 7507, 7509] were recorded 4m west of ditch [7504] in Trench 75 (Figure 23). These range in diameter from 0.38 to 0.78m and were up to 0.17m deep. They were filled with dark greyish brown silty clay with occasional charcoal flecks throughout. No dating evidence was recovered and although they appear to be in alignment, further interpretation of function is not possible.

- 4.2.66 Trench 7 was positioned to investigate a north-east to south-west aligned linear geophysical anomaly (Figure 19). It was excavated through 0.40m of top and subsoil onto orange brown clay and yellow sand natural geology at between 124.22 and 126.98m aOD.
- 4.2.67 An east-west aligned 1.7m wide, 0.17m deep u-shaped gully [703] was recorded 17m from the north north-western end of the trench as was a 0.34m in diameter, 0.13m deep pit [705]. Both were filled with dark brown sandy silt but no dating evidence was recovered.
- 4.2.68 Trenches 8, 19 and 73 were devoid of archaeological features or deposits although in Trench 19 the geophysical anomalies were proved to be the result of modern land drains. The trenches were excavated through between 0.22m and 0.4m of top and subsoil onto orange brown clay natural geology at between 119.88m aOD and 130.60m aOD.
- 4.2.69 Trench 72 (Figure 21) was positioned to test a blank area in the geophysical survey and was excavated through 0.52m of top and subsoil onto orange brown stony clay at between 125.38m aOD and 126.47m aOD. A 1.63m long 1.28m wide sub ovoid pit [7203] was recorded 17m from the south-eastern end of the trench. It was up to 0.35m deep and filled by dark brown silty clay with occasional large stones and charcoal flecks (7204). No dating evidence was recovered but two fragments of bone were found and environmental analysis may result in a clearer indication of a date and function for this feature.
- 4.2.70 Trench 74 (Figure 22) was positioned to investigate a north-west to south-east aligned geophysical anomaly. No evidence of this was found but a series of 5 small irregular pits [7403, 7405, 7407, 7409, 7411] were recorded. These were filled with dark brown silty clay with occasional charcoal flecks and were between 0.22 and 0.7m in diameter and up to 0.25m deep. Some have been interpreted as possible tree boles and others as postholes. They are roughly in alignment, running for 16m along the trench, but further interpretation and dating is not possible at this stage.
- 4.2.71 **Area 14:** Four trenches were excavated in Area 14. Trenches 26 and 28 were positioned to test blank areas in the geophysical survey and proved to be devoid of archaeological features. They were excavated through between 0.4 and 0.6m of top and subsoil onto yellow sand and orange brown clay natural geology at between 114.43m aOD in Trench 28 and 122.50m aOD in Trench 26.

- 4.2.72 Trench 27 (Figure 24) was positioned to investigate a north-east to south-west aligned geophysical anomaly that was proved to be a geological feature [2705]. An east-west aligned u-shaped gully [2703] was recorded 4m from the north north-western end of the trench. It was 0.38m wide and 0.22m deep but no finds were recovered from its single fill (2704) to aid dating and interpretation.
- 4.2.73 No archaeological features or deposits were found in Trench 31 and the geophysical anomaly it was positioned to investigate was proved to be the result of a gravel band in the natural geology that was reached below c.0.70m of top and subsoil at between 123.37m aOD and 124.04m aOD.
- 4.2.74 **Area 15:** Five trenches were excavated in Area 15, none of which contained archaeological features or deposits. Trenches 23 to 25 and Trench 33 were sited to investigate blank areas in the geophysical survey results while Trench 32 was positioned to intersect two north-east to south-west aligned anomalies. No evidence for these was found within the trench and they may be the result in slight changes in the natural geology.
- 4.2.75 **Area 16:** This area contained four trenches, all of which were positioned to investigate linear geophysical anomalies. Trenches 42, 43, 57 and 58 were excavated through between 0.25 and 0.30m of topsoil onto orange clay natural geology at between 129.05m aOD in Trench 42 and 140.42m aOD in Trench 57. The geophysical anomalies in Trenches 42, 43 and 57 proved to be the result of changes in the natural geology from clay to sandstone bedrock and also modern land drains.
- 4.2.76 Trench 58 (Figure 25) contained a substantial east-west aligned u-shaped ditch [5802] running across the east south-east end of the trench (Plates 10 & 11). This did not correspond with the geophysical anomaly the trench was positioned to investigate. It was 1.3m wide, up to 0.42m deep and contained three fills suggesting a build up of material over time. The ditch was partially overlain by a deposit (5806) that contained post-medieval debris and has been interpreted as levelling material. No dating evidence was recovered from the ditch itself.



Plate 10: North-west facing section of ditch [5802]



Plate 11: Trench 58, facing south-east

4.2.77 **Area 17:** Six trenches were excavated in Area 17, four of which contained archaeological features likely to be the geophysical anomalies that the trenches were positioned to investigate. Trench 53 (Figure 26) contained two parallel north-south aligned ditches [5303] and [5305]. The southern rounded terminus of [5305] is within the trench. Both u-shaped ditches were c. 0.65m wide and 0.19m deep and

filled with light grey silt with occasional rounded stones. Although no dating evidence was recovered it seems likely that they were contemporary drainage ditches. Trench 71 and Trench 82 were additional trenches.

4.2.78 Archaeological features in Trench 56 (Figure 27) were concentrated at the north-western end of the trench. These comprised two partially truncated curvilinear gullies [5605] and [5611], two postholes [5607, 5609] and three substantial north-south aligned features [5603, 5615, 5617]. The three linear features are likely to relate to the geophysical anomaly that the trench was placed to intersect.

4.2.79 A gully [5605] emerged from the south-western trench edge 10.34m from the north-western end of the trench before terminating after 2.5m. It was 0.46m wide, 0.15m deep and filled by dark grey silty clay. No dating evidence was recovered but it may have formed part of a ring gully along with [5311], 5.5m further north-west. Environmental analysis may help establish a date and function for these features.

4.2.80 The two subcircular features [5607, 5609] were 0.19 and 0.28m in diameter respectively. Feature [5607] tapered to a point in profile, was 0.23m deep and was likely to have been a stake hole. Feature [5609] was 0.06m deep, flat bottomed and filled by dark brown silty clay with occasional charcoal flecks and has been interpreted as a posthole. They are difficult to interpret further within the confines of the evaluation trench.

4.2.81 Ditches [5603] and [5615] were cut into a wider north-south aligned linear feature [5617] that has been interpreted as a palaeochannel. This may have been intentional as the digging would have been easier and the palaeochannel was probably still visible as a depression in the landscape. Ditch [5603] was u-shaped in profile, 1.03m wide, 0.22m deep and filled by greyish brown clay silt (5604). This fill contained sherds of abraded samian pottery datable to the 1st to 2nd century but also what appears to be a Saxon strap end (Small Find 2). Alongside ditch [5603], another linear feature [5615] was partially excavated, also following the course of the palaeochannel. The north-south aligned ditch was c1.48m wide and at least 0.33m deep but was not fully excavated due to time constraints. This ditch contained a sherd of medieval pottery in its single orange and brown mottled clay fill (5616).

4.2.82 Trench 71 (Figure 28) contained two parallel north-east to south-west aligned features [7103] and [7105] that probably relate to geophysical anomalies. They may also be continuations of features seen in Trenches 53, 56, and 82, but these were not excavated due to waterlogging and time constraints. Ditch [7103] was 2.97m wide

and filled with dark grey silty clay (**7104**). It may have been a continuation of ditch **[5617]** in Trench 56. Ditch **[7105]** located 8m further north-west was c.1m wide and filled by greyish brown silt (**7506**). No further interpretation or dating is possible based on current evidence.

4.2.83 Trench 82 also contained two north-south aligned features (Figure 29). A U-shaped ditch **[8203]** ran across the trench 9.4m from its north-eastern end. It was 1.05m wide, 0.28m deep and filled by dark greyish brown sandy clay (**8204**). No dating evidence was recovered. Ditch **[8205]** ran parallel to it, located 3m further south-west. It was 1.6m wide, 0.30m deep and had a very irregular profile. Its single fill (**8206**) contained a dump of large rounded stones but no dating evidence was retrieved.

4.2.84 Trenches 54 and 55 were excavated through c.0.4m of top and subsoil onto grey and yellow clay natural geology at between 119.5 and 120.53m aOD. The geophysical anomalies targeted in Trench 54 were not found during excavation and were likely to be the result of variations in the natural geology.

4.2.85 **Area 18:** This area contained 10 trenches. Apart from Trench 61 they were positioned to investigate north-east to south-west aligned geophysical anomalies. The trenches were excavated through between 0.35 and 1.31m of top and subsoil onto yellow, grey and orange brown clay and sand. Sandstone bedrock was present in Trenches 62 and 63. The natural geology was reached at between 119.07m aOD in Trench 59 and 126.87m aOD in Trench 62. No archaeological features or deposits were encountered in any of the trenches and the geophysical anomalies are likely to be the result of variations in the natural geology.

5 FINDS

5.1 Finds Assessment (Megan Stoakley)

5.1.1 A limited number of finds were recovered during the finds assessment, which are summarised in Table 1, below. These comprised small amounts of ceramic material, bone, tile and a copper alloy object and cup & ring marked boulder.

Cxt	Trench	Material	Qty	Wgt (g)	Date	Notes
902	9	Stone	1	>1000kg	Prehistoric	(Small Find 1)
5606	56	Cu Alloy	1	6	Anglo Saxon	Strap End (Small Find 2)
5604	56	Pottery	5	18	Roman	Samian
5604	56	Bone	6	5	-	Fragments of cattle tooth
5616	56	Pottery	1	10	Medieval	Base. Green glaze on inner
5803	58	CBM	2	232	Unknown	
5803	58	Mortar	5	18	Unknown	
U/S	42	Bone	1	1	Unknown	Burnt Bone

Table 1: Quantification of Finds by Context

5.1.2 Of significance was the discovery of a large boulder (Small Find 1) decorated with a rock art at the northern end of Trench 9 (Figure 2). The boulder was situated at the bottom of a slope under a substantial layer of subsoil (902), and may have been intentionally buried in this location.

5.1.3 The boulder has been carved from sandstone and measures 1.5m x 1m x 0.9m (Plate 12). The area of the boulder with the rock art comprises 0.9m x 0.9m and the carvings comprise cup and ring marks. There are over 30 cup-marks on the panel and six of these have ring-marks (Plate 13). It seems that the cup-and-ring panel would have been facing towards the northwest in the direction of Simonside Hills in its latter location. The boulder has sustained some plough damage, with linear scars running northwest-southeast across the carved panel.

5.1.4 A notable comparison to the boulder recovered from Ponteland is the Tortie Stone, which was discovered c.2km southeast of Hallbankgate in Cumbria and comprised a flattened, ovoid sandstone boulder with c.40 cup-and-ring marks on its upper surface (Vyner 2013, 23). Finds comprising Mesolithic points as well as Neolithic and Early Bronze Age scrapers were found in association with this example (*ibid*). The Tortie Stone is located on a southwest-facing slope of Tortie Hill with views to the

west that are not far-reaching (*ibid*, 27). These views would have been further reduced with large areas of woodland.

- 5.1.5 There may be similarities with the landscape context for Small Find 1; currently there are far reaching views towards the Simonside hills, although woodland that may have been present at the time of the boulder's use which would have reduced visibility. There is the potential for further analysis with spatial distribution/landscape interpretation regarding this find (Brown & Brown 2008).
- 5.1.6 It is highly likely that Small Find 1 is of a contemporary date with the Tortie Stone. These rock art panel boulders span the Neolithic and Early Bronze Age period, with a more refined date focusing on the Late Neolithic period (*ibid*, 28). However, secure dating evidence for rock art panel boulders is lacking. There is potential for further study and research with dating this artefact.
- 5.1.7 The function of these rock art boulders is unclear; it has been argued that the rock art panel boulders are not likely to be associated with settlements or funerary sites (Brown & Brown 2008). It is instead argued that the boulders served as landscape markers, either to mark a specific or special location or they could have been used as 'signposts' for prehistoric routeways (*ibid*). However, these marked stones are inconspicuous features in the landscape; they may have served to indicate the identity of a particular location and other more obvious landmarks or monuments may have been used as principal routeway markers (Vyner 2013, 28). There is the potential for further analysis on the uses and functions of the rock art panel boulder from Ponteland (Small Find 1).



Plate 12: Rock art panel on sandstone boulder (northwest face)



Plate 13: Showing detail of cup-and-ring marks on panel (northwest face)

5.2 Ceramics

- 5.2.1 Five abraded body sherds of Central Gaulish Samian ware pottery was recovered from deposit (5604) from Trench 56. The pottery is of 2nd century date.
- 5.2.2 One abraded sherd of later reduced ware, a late medieval pottery fabric of local manufacture, that is relatively common on medieval sites in the North East of England. The sherd is a fragment of base with evidence of sooting.

5.3 Copper Alloy

5.3.1 A single copper alloy strap end (Small Find 2) was recovered from context (5606), a ditch fill within Trench 56. The object has traces of decoration and would benefit from conservation. Upon initial observation it appears to be of Type A1 in form and date from the 9th century and would have originally have been attached to a leather/textile strap or belt by two rivets missing on this example . None of these objects can be said to be common finds in an archaeological context but the Type A1 strap end does have the widest distribution and is the commonest of all Anglo-Saxon/Anglo-Scandinavian strap ends.

5.4 Ceramic Building Material

5.4.1 Two fragments of handmade tile were recorded from deposit (5803) from Trench 58.



Plate 14: Copper alloy strap end from ditch fill (5606)

5.5 Statement of Potential

5.5.1 The rock art panel boulder is of great archaeological significance and further analysis will be necessary on this artefact. This type of artefact is rare in the north of England, with some comparable examples in Cumbria. It is highly recommended that the artefact is researched and commissioned for publication. Research areas that need to be examined include landscape and spatial distribution analysis, dating and

specialist environmental analysis. Using comparisons with similar artefacts in Cumbria and Northumbria would be necessary to understand the nature of the artefact and to obtain a greater understanding of its function in the wider landscape.

- 5.5.2 The artefact has already been transported for further analysis and museum display at the Great North Museum, Newcastle-Upon-Tyne.
- 5.5.3 The Anglo-Saxon copper alloy strap end is also of interest and indicates possible habitation at this site during the 9th century.

6 ENVIRONMENTAL ANALYSES

6.1 Archaeobotany Introduction (Don O'Meara)

6.1.1 During the course of the evaluation 44 soil samples were collected by the excavation team in line with English Heritage recommendations. This consisted of c. 730 litres of sediment.

6.1.2 Samples were taken in order to extract material of archaeobotanical interest which may be pertinent to our understanding of the environment and depositional history of the area being excavated and in line with generally accepted recommendations (English Heritage 2011).

6.1.3 The methodology for the soil processing requires that the whole earth samples be broken down and split into their various different components: the flot/washover, the retent/residue, the clay-silt and the sand-silt. The samples were soaked in water, in preparation for being manually flotted and sieved through a 'Siraf' style flotation tank. In this case the residue and the flot are retained while the sand-silt-clay components are filtered out. The samples were flotted into a 250-micron geological sieve, while the heavy residue was retained within a 1mm plastic mesh. The heavy residue will then air-dried and sorted by eye for any material that may aid our understanding of the deposit; in particular artefactual and ecofactual material. During the course of the project the heavy residue was be examined, material of archaeological interest was collected, and the remaining heavy residue (stones of various lithologies) was discarded. The material which might be recovered would include charred plant remains, bones (though based on past experience in soil of rural Northumberland this would generally only be in the form of calcinated bone fragments; a fact borne out during the processing), pottery, burnt clay and charcoal. All charcoal was retained either by being handpicked by the environmental assistants form the heavy residue, or collected in the secondary flot. The residue samples were then scanned with a hand magnet to retrieve forms of magnetic material. This is done to retrieve residues of metallurgical activity, in particular hammer scale, spheroid hammer scale. Processing procedures and nomenclature follows the conventions set out by the the English Heritage Centre for Archaeological Guidelines publication (English Heritage 2001).

6.1.4 The washover flot was dried slowly and scanned at x60 magnification for charred and uncharred botanical remains. Identification of these was undertaken by comparison with modern reference material held in the Environmental Laboratory at Wardell-

Armstrong Archaeology and by reference to relevant literature (Cappers et al. 2010) and (Jacomet 2006). Plant taxonomic nomenclature follows Stace (2010).

6.2 Heavy Residues

6.2.1 The heavy residues produced a limited amount of archaeological material. The magnetic residues were in many cases completely absent from the dried heavy residue; meaning material of either natural or anthropogenic origin was not forthcoming from the samples. Small (less than 0.5mm) fragments of abraded pottery were found in many of the samples, which might suggest there were part of material brought to the area by manuring activity.

6.3 Botanical Remains

6.3.1 A range of charred and non-charred remains were recovered by the flotation process. This included in particular the remains from Trench 69, contexts **(6906)** and **(6908)**; these contexts produced 40 and 43 charred cereal grains respectively. The cereal remains were quite heavily charred, however, it is suggested that potential multi-row barley was recovered (4 or 6-row). This is based on grain morphology however so a second opinion from the English Heritage Regional Science Advisor (Jacqui Huntley) may need to be sought to confirm this. A possible emmer wheat glume base found in context **(6908)** suggests (with the multi-row barley) that this may be an early Iron Age, or Bronze Age feature. In total 23 of the 44 samples produced at least one charred cereal grain, though only six contexts produced more than 5 grains.

6.3.2 The wild remains were generally recovered in low quantities, though notably charred caryopsis of common heath grass (*Danthonia decumbens*) were recovered in moderately frequent numbers in some of the samples, as well as other indeterminate charred grass caryopsis and charred seeds of knotgrass. This might suggest the burning of turves as a fuel (Hall 2003).

6.4 Conclusions

6.4.1 The evaluation of the soil samples from this site has demonstrated that many of the archaeological features produced charred remains of plants which are of archaeobotanical interest. These remains are also suitable for radiocarbon dating in many cases, a factor which might be important for future work considering there were few artefactual remains recovered from the site. Many of the cereals were heavily charred allowing no more detailed identification than 'Indeterminate charred

cereal', however, in a few cases preservation was excellent and allowed it to be proposed that multi-row barley may be present at this site.

- 6.4.2 The charred wild plants suggest that turves might have been exploited as a source of fuel in this area in the past (presumably in the pre-historic period).
- 6.4.3 The heavy residues did not produce much material of interest, the frequency of small (less than 1cm) coal fragments might be geological material rather than evidence of anthropogenic coal use as such. No magnetic material was recovered, and all of the pottery was small and heavily abraded.

TABLE 2: ENVIRONMENTAL ANALYSIS FOR:																						
Sample	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Context	204	206	180	170	170	690	690	690	170	881	880	870	741	870	881	881	882	881	882	882	780	810
			4	4	6	4	6	8	8	5	4	4	0	8	1	0	8	3	6	9	4	4
Volume processed (litres)	10	10	30	10	20	10	30	10	20	30	10	30	10	20	20	20	20	10	10	20	20	10
Volume of retent(ml)	760	190	400	200	420	230	500	200	410	470	440	600	170	550	540	440	550	210	130	480	240	240
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Volume of flot (ml)	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10
Samples suitable for RC dating																						
<u>Residue contents (relative abundance)</u>																						
Bone/teeth, burnt bone	1	1	1	1									1									
Burnt clay	1	1	1	1	1			1	1	1	1	1	1	1	1	1		1	1			1
Charcoal		1	1	1	1	1	1	1	1	1	1		1			1	1	1	1		1	
Glass		1																				
Pottery	1	1	1	1									1		1			1	1			
Stones/gravel		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
<u>Flot matrix (relative abundance)</u>																						
Charcoal	2;			2;	1;	1;	2;	2;		2;	1;	1;		1;	2;	1;	1;	1;	1;	1;	1;	1;
Modern roots	2;	3;		2;	3;	3;	2;	2;		2;	3;	3;		3;	2;	3;	3;	3;	3;	3;	3;	2;
Charred Herbaceous/woody material							2;									1;						
Herbaceous material																					1;	
Woody material																					1;	2;

Fuel ash																				
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Charred plant remains (total counts)

Avena species (Oat; wild/domestic)					5;	13;		3;					1;						1;	
Hordeum species (Barley; grain)					4;	5;								1;						
Hordeum species; Barley (Multi-row)						3;														
Hordeum species; Barley rachis												1;								
Triticum diococcum (Emmer wheat; glume)						?1;														
Triticum species; Hexaploid Bread wheat type grains																				
Triticum spelta; spelt wheat rachis						?2;														
Indeterminate cereal; grain			1;			23;	21;	1;	6;	1;			2;	2;	3;	1;	11;	1;	3;	
Indeterminate rachis fragment						1;			1;											
Indeterminate spikelet forks						5;														

Other plant remains (relative abundance)

Aethusa cynapium (Fools parsley)																					
Arrhenatherum bulbosum (Onion couch-grass)						?B* ;	?B* ;		A*;					A*;						A*;	
Betula pendula (Silver birch)	B;		B;	B;		A;	A;		B;											A*;	
Bromus species (Broom grass)														B*;							
Cardus/Cirsium species (Thistle family)																					

<i>Carex</i> sp. (Sedge; trigonous type)		A;						B*;											
<i>Chenopodiaceae</i> (Goosefoots)		A;	A;																B;
<i>Danthonia decumbens</i> (Common heath grass)						C*;	B*;	B*;	A*;			C*;	B*;		B*;				
<i>Fallopia convolvulus</i> (Black bindweed)					A;														
<i>Fumaria</i> species (Fumitory)																			B;
<i>Fumaria cf. officinalis</i> (Fumitory)	B;																		
<i>Lamium</i> species (Dead-nettle)																		B;	B;
<i>Lapsana communis</i> (Noipplewort)																			B;
<i>Medicago lupulina</i> (Medick)		A;						A;											
<i>Persicaria</i> (Knotweeds)		B;				B*;		A*;				A*;							B;
<i>Plantago</i> sp. (Plantain species; capsule)																			
Poaceae (Grass species)						B*;							A*;						
<i>Polygonum</i> sp. (Knotgrass)																			
<i>Rubus idaeus</i> (Raspberry)		A;																	
<i>Rubus</i> species (Brambleberry)																			
<i>Rumex cf. palustris</i> (fruit and perianth)																			
<i>Sambucus</i> species (elder)		B;						A;											
<i>Silene</i> species (Campions)																			
<i>Stellaria cf. media</i> (Stitchwort)																			A;
<i>Urtica dioica</i> (Stinging-nettle)																			
Unidentified elements																			

Sample	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Context	882 8	882 9	690 4	771 0	750 3	750 6	750 8	751 0	882 2	882 4	883 1	881 7	883 2	750 3	700 3	740 4	740 6	690 6	741 0	741 2	720 4	880 8
Volume processed (litres)	20	20	20	20	10	10	20	20	10	20	10	10	20	20	20	20	20	20	10	10	10	10
Volume of retent(ml)	300 0	390 0	220 0	370 0	800	330 0	300 0	450 0	800	380 0	270 0	550 0	300 0	450 0	240 0	400 0	400 0	360 0	200 0	130 0	370 0	580 0
Volume of flot (ml)	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10
Samples suitable for RC dating																						

Residue contents (relative abundance)

Bone/teeth, burnt bone											1											
Burnt clay	1	1	1	1							1		1		1	1	1	1	1	1		
Charcoal	1	1	1	1	1						1		1		1	1	1	1	1	1		
Glass																						
Pottery	1																					
Stones/gravel	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Flot matrix (relative abundance)

Charcoal	2;	1;		1;	1;	2;	2;	2;	1;	2;	1;	1;	2;		2;	2;	2;		2;	2;	2;	1;
Modern roots	2;	3;		3;	2;	2;	2;	2;	3;	2;	3;	3;	2;		2;	2;	2;		2;	2;		3;
Charred Herbaceous/woody material								1;	1;				1;						1;		1;	
Herbaceous material					2;											1;						
Woody material																						

7 CONCLUSIONS

- 7.1.1 In total 89 trenches were excavated over 18 separate fields at the Birney Hill site, targeting the areas of greatest impact under the proposed development. The purpose of the evaluation was to establish the nature and extent of below ground archaeological remains within the vicinity, the evaluation trenches being located to target both geophysical anomalies and apparently 'blank' areas. All trenches were excavated down to the top of the natural substrate.
- 7.1.2 Concentrations of archaeological activity can be clearly defined in Areas 7, 10, 12 and 17. Areas 7, 10 and 12 located to the west of Birney Hall, with Area 17 located to the east. Due to the small quantity of finds recovered during the fieldwork, dating the features remains difficult. The form of the features, however, is indicative of prehistoric activity, particularly the ring ditches located in Trenches 2, 17 69 and 88. It is possible to speculate that the features in the remaining trenches are also of a prehistoric origin apart from the ditches in Trench 56 which were datable to the Roman and Medieval periods.
- 7.1.3 There is an absence of archaeological evidence in Areas 1, 2, 4, 5, 6, 8, 11, 15, and 18. The fields that form the site for this study have been used extensively as agricultural land since the medieval period. Given the shallowness of the archaeological resource at the site, it is possible that archaeological material has been destroyed from the subsequent use of the fields as farmland and heavy ploughing.
- 7.1.4 A large decorated sandstone boulder recovered from Trench 9, located at the northeast of Area 9, was probably not in its original location, and may have been moved to facilitate ploughing. The boulder is of great archaeological significance and further analysis will be necessary on this artefact, which is a rare find in the north of England. The North-East Regional Research Framework for the Historic Environment outlines the importance of establishing a chronology for rock art in the region, as without it interpretation of rock art sites remains difficult (Waddington, 2006).
- 7.1.5 An Anglo-Saxon copper alloy strap end from Trench 56 (Small Find 2) is also of interest and indicates possible habitation at this site during the 9th century, although it was found along with a small assemblage of 1st to 2nd century Roman pottery. Further environmental analysis may help clarify the dating of the feature from which it was recovered.

7.1.6 The evaluation of the soil samples from this site has demonstrated that many of the archaeological features produced charred remains of plants which are of archaeobotanical interest. These remains are also suitable for radiocarbon dating in many cases, a factor which might be important for future work considering there were few artefactual remains recovered from the site. In a few cases preservation of cereal grains was excellent and allowed it to be proposed that multi-row barley may be present at this site.

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APPENDIX 1: TRENCH DESCRIPTIONS

Trench 1

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.39m

Minimum Depth: 0.27m

OS Co-ordinates: 414498.0890 569947.2514
(Easting, Northing)

414515.3108 569900.5264

TOPSOIL: mid grey brown Soft silty sandy clay **Depth:** 0.34m

NATURAL: brown firm silty clay **Depth:** N/A

Description of contexts

(100) Topsoil

(101) Natural geology

Trench 2

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.43 m

Minimum Depth: 0.18m

OS Co-ordinates: 414531.9180 569854.6915
(Easting, Northing)

414573.8126 569879.5769

TOPSOIL: mid grey brown Soft silty sandy clay **Depth:** 0.22m

NATURAL: mid yellow brown firm clay & sandy clay **Depth:** N/A

Description of contexts

(200) Topsoil

(201) Void

(202) Natural geology

(203) Cut of ring ditch

(204) Fill of ditch [203]

(205) Cut of ring ditch

(206) Fill of ditch [205]

Trench 3

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.50m **Minimum Depth:** 0.20m

OS Co-ordinates: 414562.4179 569911.1868
(Easting, Northing)

414596.6058 569950.4959

TOPSOIL:	dark brown	soft	silt	Depth:	0.15m
SUBSOIL:	mid brown	soft	sandy silt	Depth:	0.10m
NATURAL:	mid orangey brown & yellow	firm	silty clay & sand	Depth:	N/A

Description of contexts

(300) Topsoil

(301) Subsoil

(302) Natural geology

Trench 4

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.60m **Minimum Depth:** 0.30m

OS Co-ordinates: 414632.6524 569947.0388
(Easting, Northing)

414650.1965 569899.5603

TOPSOIL:	dark brown	soft	silt	Depth:	0.10m
SUBSOIL:	mid brown	soft	sandy silt	Depth:	0.15m
NATURAL:	light orangey brown & yellow	firm	silty clay &	Depth:	N/A

Description of contexts

(400) Topsoil

(401) Subsoil

(402) Natural geology

Trench 5

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.89m **Minimum Depth:** 0.28m
OS Co-ordinates: 414582.8210 569852.3061
(Easting, Northing)
 414633.9980 569852.4237

TOPSOIL:	dark grey brown	soft	silty sandy clay	Depth:	0.26m
SUBSOIL:	mid reddish brown	soft	sandy clay	Depth:	0.18m
NATURAL:	mid orangey brown	soft	clayey sand & clay	Depth:	N/A

Description of contexts

- (500) Topsoil
- (501) Subsoil
- (502) Natural geology

Trench 6

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.50m **Minimum Depth:** 0.20m
OS Co-ordinates: 414654.6206 569797.7043
(Easting, Northing)
 414687.7872 569835.9135

TOPSOIL:	dark brown	soft	silt	Depth:	0.10m
SUBSOIL:	mid brown	soft	sandy silt	Depth:	0.20m
NATURAL:	orangey brown & yellow	firm	clay & sand	Depth:	N/A

Description of contexts

- (600) Topsoil
- (601) Subsoil
- (602) Natural geology
- [603] Cut of gully
- (604) Fill of gully [603]

Trench 7

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.65m **Minimum Depth:** 0.30m
OS Co-ordinates: 414632.5049 569812.7267
(Easting, Northing)
 414650.0064 569766.3485

TOPSOIL:	dark brown	soft	silt	Depth:	0.15m
SUBSOIL:	mid brown	soft	sandy silt	Depth:	0.25m
NATURAL:	orangy brown & yellow	firm	clay & sand	Depth:	N/A

Description of contexts

- (700) Topsoil
- (701) Subsoil
- (702) Natural geology
- (703) Cut of gully
- (704) Fill of gully
- [705] Cut of possible small pit
- (706) Fill of small pit

Trench 8

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.46m **Minimum Depth:** 0.34m
OS Co-ordinates: 414638.2461 569718.9638
(Easting, Northing)
 414671.0606 569756.7277

TOPSOIL:	dark grey brown	loose	sandy silty clay	Depth:	0.26m
SUBSOIL:	mid reddish brown	firm	sandy clay	Depth:	0.13m
NATURAL:	brownish yellow	soft	sandy clay	Depth:	N/A

Description of contexts

- (800) Topsoil
- (801) Subsoil
- (802) Natural geology

Trench 9

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.90m

Minimum Depth: 0.30m

OS Co-ordinates: 414724.4825 569819.5429
(Easting, Northing)

414739.5743 569771.8441

TOPSOIL:	dark grey brown	soft	silty clay	Depth:	0.40m
SUBSOIL:	brown	soft	silty clay	Depth:	0.15m
NATURAL:	orange brown	compact	clay	Depth:	N/A

Description of contexts

(901) Topsoil

(902) Subsoil

(903) Natural geology

(904) Tree bole

(905) Modern fill of boulder cavity

Trench 10

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.42m

Minimum Depth: 0.24m

OS Co-ordinates: 414773.2318 569814.2344
(Easting, Northing)

414820.0118 569831.9704

TOPSOIL:	grey brown	soft	silty clay	Depth:	0.30m
NATURAL:	yellow brown	soft	sandy clay	Depth:	N/A

Description of contexts

(1000) Topsoil

(1001) Natural geology

(1002) Tree bole

Trench 11

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.80m **Minimum Depth:** 0.40m

OS Co-ordinates: 414786.7536 569749.4041
(Easting, Northing)

414801.8008 569701.6912

TOPSOIL:	mid grey brown	soft	silt	Depth:	0.20m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.20m
NATURAL:	light orange grey	soft	sandy clay	Depth:	N/A

Description of contexts

(1100) Topsoil

(1101) Subsoil

(1102) Natural geology

Trench 12

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.64m **Minimum Depth:** 0.22m

OS Co-ordinates: 414876.1264 569839.2811
(Easting, Northing)

414891.2239 569791.5841

TOPSOIL:	mid grey brown	very soft	silty clay	Depth:	0.20m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.20m
NATURAL:	mid orange brown	soft	silty clay	Depth:	N/A

Description of contexts

(1200) Topsoil

(1201) Subsoil

(1202) Natural geology

Trench 13

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.60m **Minimum Depth:** 0.40m

OS Co-ordinates: 414855.8402 569762.5255
(Easting, Northing)

414905.6823 569758.1998

TOPSOIL:	dark brown	soft	silty clay	Depth:	0.15m
SUBSOIL:	mid brown	soft	clayey silt	Depth:	0.30m
NATURAL:	light yellow grey	soft	clay and sand	Depth:	N/A

Description of contexts

(1300) Topsoil

(1301) Subsoil

(1302) Natural geology

Trench 14

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.47m **Minimum Depth:** 0.22m

OS Co-ordinates: 414828.4232 569641.3324
(Easting, Northing)

414874.3067 569620.5656

TOPSOIL:	dark grey brown	soft	silty clay	Depth:	0.11m
SUBSOIL:	mid reddish brown	soft	silty clay	Depth:	0.18m
NATURAL:	light yellow brown	soft	sandy clay & sandstone	Depth:	N/A

Description of contexts

(1400) Topsoil

(1401) Subsoil

(1402) Natural geology

[1403] Cut of ditch

(1404) Secondary fill of ditch [1403]

(1405) Primary fill of ditch [1403]

Trench 15

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.60m **Minimum Depth:** 0.30m

OS Co-ordinates: 414934.6485 569811.8052
(Easting, Northing)

414932.1680 569759.8475

TOPSOIL:	mid brown	loose	silty clay	Depth:	0.15m
SUBSOIL:	mid brown	compact	silty clay	Depth:	0.25m
NATURAL:	brown	compact	clay	Depth:	N/A

Description of contexts

(1500) Topsoil
 (1501) Subsoil
 (1502) Natural geology

Trench 16

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.34m **Minimum Depth:** 0.25m

OS Co-ordinates: 414733.7458 569901.6525
(Easting, Northing)

414782.4818 569887.9004

TOPSOIL:	dark brown	soft	silt	Depth:	0.15m
SUBSOIL:	mid brown	soft	sandy silt	Depth:	0.25m
NATURAL:	orange brown	firm	sandy clay & sandy silt	Depth:	N/A

Description of contexts

(1600) Topsoil
 (1601) Subsoil
 (1602) Natural geology

Trench 17

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.75m **Minimum Depth:** 0.30m

OS Co-ordinates: 414691.0936 569955.5004
(Easting, Northing)

414739.5759 569942.0778

TOPSOIL:	dark brown	soft	silty	Depth:	0.20m
SUBSOIL:	brown	soft	clayey silt	Depth:	0.25m
NATURAL:	yellow orange	soft	silty clay	Depth:	N/A

Description of contexts

(1700) Topsoil
 (1701) Subsoil
 (1702) Natural geology
 [1703] Cut of ring gully
 (1704) Fill of ring gully [1703]
 [1705] Cut of ring gully
 (1706) Fill of ring gully [1705]
 [1707] Cut of ditch
 (1708) Fill of ditch [1707]

Trench 18

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.41m **Minimum Depth:** 0.23m

OS Co-ordinates: 414767.1265 569963.4014
(Easting, Northing)
 414749.9701 569914.9426

TOPSOIL:	mid brown	soft	silty clay	Depth:	0.10m
SUBSOIL:	mid brown	firm	silty clay	Depth:	0.19m
NATURAL:	mid brown	firm	silty clay	Depth:	N/A

Description of contexts

(1800) Topsoil
 (1801) Subsoil
 (1802) Natural geology
 [1803] Cut of pit
 (1804) Fill of pit [1803]

Trench 19

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.45m

Minimum Depth: 0.35m

OS Co-ordinates: 414589.4964 569989.0490
(Easting, Northing)

414638.1886 570003.3208

TOPSOIL:	dark brown	soft	silt	Depth:	0.20m
SUBSOIL	mid brown	soft	sandy silt	Depth:	0.20m
NATURAL:	orange brown	firm	sandy clay & bedrock	Depth:	N/A

Description of contexts

(1900) Topsoil

(1901) Subsoil

(1902) Natural geology

Trench 20

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.35m

Minimum Depth: 0.18m

OS Co-ordinates: 414669.9237 570045.5993
(Easting, Northing)

414721.6159 570037.6602

TOPSOIL:	mid grey brown	soft	silt	Depth:	0.15m
SUBSOIL:	light grey brown	soft	silt	Depth:	0.15m
NATURAL:	yellow brown	compact	silty clay	Depth:	N/A

Description of contexts

(2000) Topsoil

(2001) Subsoil

(2002) Natural geology

Trench 21

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.32m **Minimum Depth:** 0.22m

OS Co-ordinates: 414761.2867 570034.5242
(Easting, Northing)

414814.0207 570027.5982

TOPSOIL:	dark brown	soft	silty clay	Depth:	0.10m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.18m
NATURAL:	yellow brown	soft	silty clay	Depth:	N/A

Description of contexts

(2100) Topsoil

(2101) Subsoil

(2102) Natural geology

Trench 22

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.50m **Minimum Depth:** 0.20m

OS Co-ordinates: 414823.3785 570006.2794
(Easting, Northing)

414840.4169 569958.8689

TOPSOIL:	mid to dark brown	soft	silty clay	Depth:	0.15m
SUBSOIL:	mid brown	soft	sandy clay	Depth:	0.14m
NATURAL:	orange brown	compact	clay and bedrock	Depth:	N/A

Description of contexts

(2200) Topsoil

(2201) Subsoil

(2202) Natural geology

Trench 23

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.50m **Minimum Depth:** 0.30m

OS Co-ordinates: 415020.7429 570063.3576

(Easting, Northing)

415038.0072 570016.4014

TOPSOIL: dark brown soft silt **Depth:** 0.25m

NATURAL: mid brown soft silty clay **Depth:** N/A

Description of contexts

(2300) Topsoil

(2301) Natural geology

Trench 24

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.39m **Minimum Depth:** 0.24m

OS Co-ordinates: 415061.2639 570014.7740

(Easting, Northing)

415094.2341 570052.4026

TOPSOIL: mid grey brown soft silty clay **Depth:** 0.29m

NATURAL: orange brown & yellow brown stiff silty clay, bedrock & sand **Depth:** N/A

Description of contexts

(2400) Topsoil

(2401) Natural geology

Trench 25

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.30m **Minimum Depth:** 0.20m

OS Co-ordinates: 415139.8593 570130.3744

(Easting, Northing)

415185.0563 570151.8260

TOPSOIL: dark brown soft silt **Depth:** 0.25m

NATURAL: brown firm silty clay **Depth:** N/A

Description of contexts

(2500) Topsoil
 (2501) Natural geology

Trench 26

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.45m **Minimum Depth:** 0.20m

OS Co-ordinates: 415221.0232 570175.5499
(Easting, Northing)

415265.8820 570197.1218

TOPSOIL:	mid grey brown	soft	silt	Depth:	0.20m
SUBSOIL:	mid grey brown	soft	silty clay	Depth:	0.20m
NATURAL:	light yellow brown	firm	sand & clay	Depth:	N/A

Description of contexts

(2600) Topsoil
 (2601) Subsoil
 (2602) Natural geology

Trench 27

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.65m **Minimum Depth:** 0.25m

OS Co-ordinates: 415236.3240 570263.6709
(Easting, Northing)

415249.9393 570216.5237

TOPSOIL:	mid grey brown	soft	silt	Depth:	0.25m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.20m
NATURAL:	light yellow brown	firm	silty clay & bedrock	Depth:	N/A

Description of contexts

(2700) Topsoil
 (2701) Subsoil
 (2702) Natural geology

- [2703] Cut of gully
- (2704) Fill of gully [2703]
- (2705) Possible hedgerow

Trench 28

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.68m **Minimum Depth:** 0.32m
OS Co-ordinates: 415275.4762 570296.8571
(Easting, Northing)
 415324.6517 570310.5496

TOPSOIL:	dark grey brown	soft	silty clay	Depth:	0.18m
SUBSOIL:	mid grey brown	soft	silty clay	Depth:	0.42m
NATURAL:	mid brown	firm	silty clay	Depth:	N/A

Description of contexts

- (2800) Topsoil
- (2801) Subsoil
- (2802) Natural geology

Trench 29

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.50 m **Minimum Depth:** 0.30m
OS Co-ordinates: 415085.0849 569836.5322
(Easting, Northing)
 415132.3534 569854.8952

TOPSOIL:	mid greyish brown	soft	silty clay	Depth:	0.18m
SUBSOIL:	greyish brown	compact	silty clay	Depth:	0.17m
NATURAL:	brown	compact	silty clay	Depth:	N/A

Description of contexts

- (2900) Topsoil
- (2901) Subsoil

(2902) Natural geology

Trench 30

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.80m **Minimum Depth:** 0.30m

OS Co-ordinates: 415099.4719 569950.1447

(Easting, Northing)

415078.9214 569904.4543

TOPSOIL:	dark grey brown	soft	clay silt	Depth:	0.30m
SUBSOIL:	mid grey brown	moderately firm	silty clay	Depth:	0.30m
NATURAL:	mid orange brown & grey	firm	silty clay	Depth:	N/A

Description of contexts

(3000) Topsoil

(3001) Subsoil

(3002) Natural geology

Trench 31

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.65m **Minimum Depth:** 0.20m

OS Co-ordinates: 415268.2026 570136.1039

(Easting, Northing)

415313.6764 570157.6989

TOPSOIL:	dark grey brown	soft	clayey silt	Depth:	0.37m
SUBSOIL:	mid orange brown	soft	silty clay	Depth:	0.32m
NATURAL:	mid yellow brown	compact	sandy clay	Depth:	N/A

Description of contexts

(3100) Topsoil

(3101) Subsoil

(3102) Natural geology

Trench 32

OS Co-ordinates: 415193.3929 570000.0774
(Easting, Northing)

415210.1528 569953.4388

TOPSOIL:	mid brown grey	soft	silty clay	Depth:	0.20m
SUBSOIL:	orange brown	soft	clay	Depth:	0.40m
NATURAL:	orange grey	firm	clay	Depth:	N/A

Description of contexts

(3400) Topsoil

(3401) Subsoil

(3402) Natural geology

Trench 35

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.34m **Minimum Depth:** 0.16m

OS Co-ordinates: 415224.1009 569961.5582
(Easting, Northing)

415241.6458 569914.7308

TOPSOIL:	dark brown grey	soft	clayey silt	Depth:	0.21m
SUBSOIL:	dark grey brown	soft	silty clay	Depth:	0.10m
NATURAL:	yellow brown	firm	sandy clay	Depth:	N/A

Description of contexts

(3500) Topsoil

(3501) Subsoil

(3502) Natural geology

Trench 36

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.45m **Minimum Depth:** 0.13m

OS Co-ordinates: 415153.3545 569911.6340
(Easting, Northing)

415203.5299 569911.7222

TOPSOIL:	mid grey brown	soft	silty clay	Depth:	0.18m
SUBSOIL:	mid brown	stiff	silty clay	Depth:	0.11m
NATURAL:	yellow brown	stiff	sandy clay	Depth:	N/A

Description of contexts

(3600) Topsoil

(3601) Subsoil

(3602) Natural geology

Trench 37

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.60m

Minimum Depth: 0.39m

OS Co-ordinates:

415298.4640 570067.9775

(Easting, Northing)

415344.8257 570085.5694

TOPSOIL:	dark grey brown	soft	sandy silty clay	Depth:	0.30m
SUBSOIL:	mid grey brown	moderate	silty clay	Depth:	0.20m
NATURAL:	light yellow brown	friable	silty clay	Depth:	N/A

Description of contexts

(3700) Topsoil

(3701) Subsoil

(3702) Natural geology

[3703] Cut of ditch

(3704) Fill of [3703]

[3705] Cut of ditch

(3706) Fill of [3705]

Trench 38

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.88m

Minimum Depth: 0.38m

OS Co-ordinates: 415286.8516 569996.9045
(Easting, Northing)

415333.1992 570014.3784

TOPSOIL:	dark brown grey	soft	clayey silt	Depth:	0.26m
SUBSOIL:	dark grey brown	soft	silty clay	Depth:	0.15m
NATURAL:	mid orange brown	firm	sandy clay	Depth:	N/A

Description of contexts

(3800) Topsoil

(3801) Subsoil

(3802) Natural geology

Trench 39

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.45m **Minimum Depth:** 0.18m

OS Co-ordinates: 415371.1877 570022.4210
(Easting, Northing)

415387.9555 569975.7389

TOPSOIL:	dark grey brown	soft	clayey silt	Depth:	0.22m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.16m
NATURAL:	light yellow brown	compact	sandy clay	Depth:	N/A

Description of contexts

(3900) Topsoil

(3901) Subsoil

(3902) Natural geology

Trench 40

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.42m **Minimum Depth:** 0.28m

OS Co-ordinates: 415298.5295 569944.2250
(Easting, Northing)

415345.1429 569962.2109

TOPSOIL:	mid grey brown	soft	silty clay	Depth:	0.32m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.08m
NATURAL:	light brown	firm	silty clay	Depth:	N/A

Description of contexts

(4001) Topsoil

(4002) Subsoil

(4003) Natural geology

Trench 41

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.55m

Minimum Depth: 0.42m

OS Co-ordinates: 415440.7231 570114.5919
(Easting, Northing)

415457.9534 570067.1290

TOPSOIL:	dark grey brown	soft	silty clay	Depth:	0.18m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.27m
NATURAL:	light yellow brown	firm	silty clay	Depth:	N/A

Description of contexts

(4100) Topsoil

(4101) Subsoil

(4102) Natural geology

Trench 42

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.49m

Minimum Depth: 0.22m

OS Co-ordinates: 415543.5520 570048.7761
(Easting, Northing)

415510.0412 570010.3156

TOPSOIL:	dark grey brown	soft	silt	Depth:	0.28m
NATURAL:	orange	sticky	sandy clay	Depth:	N/A

Description of contexts

- (4200) Topsoil
- (4201) Subsoil

Trench 43

Width:	2.00m	Length:	50.00m
Maximum Depth:	0.40m	Minimum Depth:	0.32m
OS Co-ordinates:	415488.3217	569993.9907	
(Easting, Northing)			
	415472.1992	569947.3424	

TOPSOIL:	mid grey brown	soft	silty clay	Depth:	0.30m
NATURAL:	light brown	firm	silty clay	Depth:	N/A

Description of contexts

- (4300) Topsoil
- (4301) Subsoil

Trench 44

Width:	2.00m	Length:	50.00m
Maximum Depth:	0.40m	Minimum Depth:	0.20m
OS Co-ordinates:	415412.2107	569918.0205	
(Easting, Northing)			
	415364.7277	569899.9124	

TOPSOIL:	mid grey brown	soft	silt	Depth:	0.15m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.20m
NATURAL:	light orange with grey flecks	soft	clay	Depth:	N/A

Description of contexts

- (4400) Topsoil
- (4401) Subsoil
- (4402) Natural geology

Trench 45

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.65m **Minimum Depth:** 0.40m

OS Co-ordinates: 415350.3083 569865.6327
(Easting, Northing)

415303.0489 569847.7606

TOPSOIL:	dark brown	soft	silty clay	Depth:	0.15m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.14 m
NATURAL:	yellow brown	soft	silty clay	Depth:	N/A

Description of contexts

- (4500) Topsoil
- (4501) Subsoil
- (4502) Natural geology

Trench 46

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.48m **Minimum Depth:** 0.30m

OS Co-ordinates: 415251.7777 569871.8637
(Easting, Northing)

415263.5098 569824.7248

TOPSOIL:	dark brown	soft	clayey silt	Depth:	0.28m
NATURAL:	yellow brown & grey	stiff	clay & bedrock	Depth:	N/A

Description of contexts

- (4600) Topsoil
- (4601) Natural geology

Trench 47

Maximum Depth: 0.28m **Minimum Depth:** 0.22m

OS Co-ordinates: 415249.6840 569500.4605
(Easting, Northing)

415223.9037 569457.5849

TOPSOIL:	dark brown	soft	silty clay	Depth:	0.24m
NATURAL:	orange & yellow brown	firm	clay	Depth:	N/A

Description of contexts

(4900) Topsoil
 (4901) Natural geology

Trench 50

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.24m **Minimum Depth:** 0.19m

OS Co-ordinates: 415109.8363 569569.6608
(Easting, Northing)

415113.5331 569519.7682

TOPSOIL:	dark brown	loose	silty clay	Depth:	0.22m
NATURAL:	yellow & orange brown	firm	clay	Depth:	N/A

Description of contexts

(5000) Topsoil
 (5001) Natural geology

Trench 51

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.41m **Minimum Depth:** 0.25m

OS Co-ordinates: 415293.8278 569588.0534
(Easting, Northing)

415305.6911 569539.4509

TOPSOIL:	dark brown	loose	silty clay	Depth:	0.20m
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NATURAL: yellow brown & orange moderately firm clay & sand **Depth:** N/A

Description of contexts

(5100) Topsoil

(5101) Natural geology

Trench 52

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.23m **Minimum Depth:** 0.19m

OS Co-ordinates: 415354.9813 569523.0440
(Easting, Northing)

415308.2480 569505.1852

TOPSOIL: dark brown loose silty clay **Depth:** 0.18m
NATURAL: yellow & orange brown firm clay **Depth:** N/A

Description of contexts

(5200) Topsoil

(5201) Natural geology

Trench 53

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.62m **Minimum Depth:** 0.18m

OS Co-ordinates: 415430.1498 570251.7126
(Easting, Northing)

415382.0441 570235.5580

TOPSOIL: dark grey brown soft clay silt **Depth:** 0.36m
SUBSOIL: mid brown soft silty clay **Depth:** 0.21m
NATURAL: light yellow orange firm clay/ sandy clay **Depth:** N/A

Description of contexts

- (5300) Topsoil
- (5301) Subsoil
- (5302) Natural geology
- [5303] Ditch
- (5304) Fill of Ditch [5303]
- [5305] Ditch
- (5306) Fill of Ditch [5305]

Trench 54

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.42m **Minimum Depth:** 0.42m

OS Co-ordinates: 415436.6166 570264.8132
(Easting, Northing)

415446.8081 570216.2312

TOPSOIL:	dark brown	soft	silt	Depth:	0.30m
SUBSOIL:	mid grey brown	soft	silty clay	Depth:	0.10m
NATURAL:	light yellow brown	soft	silty clay	Depth:	N/A

Description of contexts

- (5400) Topsoil
- (5401) Subsoil
- (5402) Natural geology

Trench 55

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.20m **Minimum Depth:** 0.55m

OS Co-ordinates: 415512.8326 570268.9275
(Easting, Northing)

415466.3176 570255.1231

TOPSOIL:	dark grey	soft	silt	Depth:	0.20m
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SUBSOIL:	mid brown grey	firm	silty clay	Depth:	0.20m
NATURAL:	grey yellow to dark grey	firm	clay	Depth:	N/A

Description of contexts

- (5500) Topsoil
- (5501) Subsoil
- (5502) Natural geology

Trench 56

Width: 2.00m	Length: 50.00m
Maximum Depth: 0.38m	Minimum Depth: 0.97m
OS Co-ordinates:	415395.1405 570204.2720
(Easting, Northing)	
	415439.6724 570181.1969

TOPSOIL:	dark brown	soft	silty clay	Depth:	0.30m
SUBSOIL:	mid grey brown	soft	silty clay	Depth:	0.30m
NATURAL:	light yellow brown	soft	silty clay	Depth:	N/A

Description of contexts

- (5600) Topsoil
- (5601) Subsoil
- (5602) Natural geology
- [5603] Cut of ditch
- (5604) Fill of [5603]

- [5605] Cut of ditch/Gully
- (5606) Fill of [5605]
- [5607] Cut of posthole
- (5608) Fill of [5607]
- [5609] Cut of posthole
- (5610) Fill of [5609]
- [5611] Cut of linear

- (5612) Fill of [5612]
- [5613]Cut of posthole
- (5614) Fill of [5613]
- [5615] Cut of ditch/ linear
- (5616) Fill of [5615]
- [5617]Cut of linear/poss paleochannel
- (5618) Fill of [5617]

Trench 57

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.25m **Minimum Depth:** 0.20m

OS Co-ordinates: 415559.2142 569837.5063

(Easting, Northing)

415526.4541 569799.8821

TOPSOIL:	mid grey brown	soft	silty clay	Depth:	0.25m
NATURAL:	light brown	firm	silty clay	Depth:	N/A

Description of contexts

(5700) Topsoil

(5701) Subsoil

Trench 58

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.35m **Minimum Depth:** 0.25m

OS Co-ordinates: 415622.0149 569857.6799

(Easting, Northing)

415574.8398 569839.4129

TOPSOIL:	dark brown	soft	silty clay	Depth:	0.24m
NATURAL:	orange & yellow brown	firm	clay	Depth:	N/A

Description of contexts

Description of contexts

- (6000) Topsoil
- (6001) Subsoil
- (6201) Natural geology

Trench 61

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.64m **Minimum Depth:** 0.22m

OS Co-ordinates: 415723.3776 570307.0441
(Easting, Northing)

415675.7553 570288.0001

TOPSOIL:	dark grey brown	soft	clay silt	Depth:	0.30m
SUBSOIL:	mid orange brown	soft	silty clay	Depth:	0.34m
NATURAL:	mid orange brown	firm	sandy clay	Depth:	N/A

Description of contexts

- (6100) Topsoil
- (6101) Subsoil
- (6102) Natural geology

Trench 62

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.50m **Minimum Depth:** 0.15m

OS Co-ordinates: 415626.0943 570230.2782
(Easting, Northing)

415643.0850 570182.7865

TOPSOIL:	mid brown grey	soft	silt	Depth:	0.25m
SUBSOIL:	dark brown	soft	silty clay	Depth:	0.30m
NATURAL:	light orange yellow	firm	sandy clay with sandstone bedrock	Depth:	N/A

Description of contexts

- (6200) Topsoil

(6201) Subsoil

(6202) Natural geology

Trench 63

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.58m **Minimum Depth:** 0.32m

OS Co-ordinates: 415634.0507 570159.1295
(Easting, Northing)

415652.1489 570111.6147

TOPSOIL:	dark grey brown	moderate	silty clay	Depth:	0.18m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.28m
NATURAL:	light yellow	soft	sandy clay	Depth:	N/A

Description of contexts

(6300) Topsoil

(6301) Subsoil

(6302) Natural geology

Trench 64

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.75m **Minimum Depth:** 0.30m

OS Co-ordinates: 415683.8449 570215.4709
(Easting, Northing)

415701.0732 570167.9369

TOPSOIL:	light grey brown	soft	silty clay	Depth:	0.25m
SUBSOIL:	mid brown	firm	silty clay	Depth:	0.30m
NATURAL:	yellow grey to orange	firm	clay to sand	Depth:	N/A

Description of contexts

(6400) Topsoil

(6401) Subsoil

(6402) Natural geology

Trench 65

Width: 2.00m

Length: 50.00m

Maximum Depth: 1.30m

Minimum Depth: 0.30m

OS Co-ordinates: 415726.7682 570259.4506
(Easting, Northing)

415774.3576 570246.5366

TOPSOIL:	mid grey	soft	silty clay	Depth:	0.30m
SUBSOIL:	mid grey brown	firm	silty clay	Depth:	0.30m
NATURAL:	varies yellow brown to orange	firm	clay with sand patches	Depth:	N/A

Description of contexts

(6500) Topsoil

(6501) Subsoil

(6502) Natural geology

Trench 66

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.72m

Minimum Depth: 0.18m

OS Co-ordinates: 415776.5456 570315.6908
(Easting, Northing)

415793.4505 570270.4145

TOPSOIL:	dark grey brown	soft	clay silt	Depth:	0.40m
SUBSOIL:	mid orange brown	soft	silty clay	Depth:	0.32m
NATURAL:	light brown orange	firm	sandy clay	Depth:	N/A

Description of contexts

(100) Topsoil

(101) Subsoil

(101) Natural geology

Trench 67

Width: 2.00m

Length: 50.00m

Maximum Depth: 1.42m **Minimum Depth:** 0.63m

OS Co-ordinates: 415776.5389 570198.5359
(Easting, Northing)

415796.0601 570153.2484

TOPSOIL:	dark grey brown	moderate	silty clay	Depth:	0.27m
SUBSOIL:	mid grey brown	soft	sandy clay	Depth:	1.04m
NATURAL:	mottled grey/ yellow brown	soft	sandy clay	Depth:	N/A

Description of contexts

- (6700) Topsoil
- (6701) Subsoil
- (6702) Natural geology

Trench 68

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.62m **Minimum Depth:** 0.18m

OS Co-ordinates: 415815.5182 570205.3985
(Easting, Northing)

415860.9500 570224.5193

TOPSOIL:	dark grey brown	soft	clay silt	Depth:	0.22m
SUBSOIL:	mid orange brown	soft	silty clay	Depth:	0.26m
NATURAL:	light yellow brown	firm	sandy clay, sandstone bedrock	Depth:	N/A

Description of contexts

- (6800) Topsoil
- (6801) Subsoil
- (6802) Natural geology

Trench 69

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.67m **Minimum Depth:** 0.35m

OS Co-ordinates: 414977.2902 569679.0442

(Easting, Northing)

414993.7954 569631.3714

TOPSOIL:	dark brown	soft	clayey silt	Depth:	0.25m
SUBSOIL:	mid orange brown	soft	silty clay	Depth:	0.10m
NATURAL:	yellow & orange	firm	sandy clay	Depth:	N/A

Description of contexts

- (6900) Topsoil
- (6901) Subsoil
- (6902) Natural geology
- [6903] Cut of ring ditch
- [6905] Cut of ditch
- (6906) Fill of ditch [6905]
- [6907] Re-cut of ditch [6909]
- (6908) Fill of ditch re-cut [6907]
- [6909] Cut of ditch
- (6910) Fill of ditch [6909]

Trench 70

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.40m **Minimum Depth:** 0.30m

OS Co-ordinates: 414527.1470 569911.5929

(Easting, Northing)

414552.8176 569868.5562

TOPSOIL:	dark brown	soft	silt	Depth:	0.25m
NATURAL:	mid yellow brown	soft	silty sandy clay & sand	Depth:	N/A

Description of contexts

- (7000) Topsoil
- (7001) Natural geology

Trench 71

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.30m **Minimum Depth:** 0.75m

OS Co-ordinates: 415394.5800 5702190.1257

(Easting, Northing)

415442.2313 570202.1721

TOPSOIL:	light grey	soft	silt	Depth:	0.30m
SUBSOIL:	mid brown grey	soft	silty clay	Depth:	0.30m
NATURAL:	light yellow grey	firm	gritty clay	Depth:	N/A

Description of contexts

- (7100) Topsoil
- (7101) Subsoil
- (7102) Natural geology
- [7103] Ditch
- (7104) Fill of [7103]
- [7105] Linear
- (7106) Fill of (7106)

Trench 72

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.70m **Minimum Depth:** 0.32m

OS Co-ordinates: 414550.7357 569850.2413

(Easting, Northing)

414568.1980 569803.3584

TOPSOIL:	dark brown	soft	silty clay	Depth:	0.28m
SUBSOIL:	mid grey brown	soft	sandy clay	Depth:	0.24m
NATURAL:	mid grey brown to orange brown	firm	stone clay/ sand	Depth:	N/A

Description of contexts

- (7200) Topsoil
- (7201) Subsoil
- (7202) Natural geology

Trench 73

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.42m

Minimum Depth: 0.25m

OS Co-ordinates: 414572.6408 569907.1945
(Easting, Northing)

414590.0007 569860.2736

TOPSOIL:	dark brown grey	soft	clayey silt	Depth:	0.17m
SUBSOIL:	dark grey brown	soft	silty clay	Depth:	0.05m
NATURAL:	mid orange brown	compact	sandy clay	Depth:	N/A

Description of contexts

(7300) Topsoil

(7301) Subsoil

(7302) Natural geology

Trench 74

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.75m

Minimum Depth: 0.22m

OS Co-ordinates: 414672.6087 569792.5404
(Easting, Northing)

414690.2844 569744.1804

TOPSOIL:	mid grey brown	soft	silt	Depth:	0.20m
SUBSOIL:	mid grey brown	firm	silty clay	Depth:	0.20m
NATURAL:	mid yellow & grey yellow	firm	clay & sand	Depth:	N/A

Description of contexts

(7400) Topsoil

(7401) Subsoil

(7402) Natural geology

[7403] Cut of pit

(7404) Fill of pit [7403]

[7405] Cut of possible pit

(7406) Fill of possible pit [7405]

[7407] Cut of pit

(7408) Fill of pit [7407]

[7409] Cut of post hole

(7410) Fill of post hole [7409]

[7411] Cut of pit

(7412) Fill of pit [7411]

Trench 75

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.52m **Minimum Depth:** 0.19m

OS Co-ordinates: 414679.4565 569850.2160

(Easting, Northing)

414632.1238 569832.4153

TOPSOIL:	mid grey brown	soft	clayey silt	Depth:	0.18m
SUBSOIL:	dark yellow brown	firm	silty clay	Depth:	0.16m
NATURAL:	light grey brown	stiff	silty clay	Depth:	N/A

Description of contexts

(7500) Topsoil

(7501) Subsoil

(7502) Natural geology

(7503) Fill of ditch [7504]

[7504] Cut of ditch

[7505] Cut of pit/posthole

(7506) Fill of pit/posthole [7505]

[7507] Cut of pit/posthole

(7508) Fill of pit/posthole [7507]

[7509] Cut of pit/posthole

(7510) Fill of pit/posthole [7509]

Trench 76

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.70m **Minimum Depth:** 0.40m

OS Co-ordinates: 414712.2223 569948.5748
(Easting, Northing)

414704.1551 569920.0701

TOPSOIL:	dark brown	soft	silt	Depth:	0.30m
SUBSOIL:	mid yellow brown	soft	silty clay	Depth:	0.30m
NATURAL:	light yellow grey	firm	sandy silt	Depth:	N/A

Description of contexts

- (7600) Topsoil
- (7601) Subsoil
- (7602) Natural geology

Trench 77

Width: 2.00m **Length:** 50.00m
Maximum Depth: 0.65m **Minimum Depth:** 0.50m

OS Co-ordinates: 414718.4328 569970.0510
(Easting, Northing)

414713.0966 569951.5104

TOPSOIL:	dark brown	soft	silt	Depth:	0.30m
SUBSOIL:	mid brown	soft	clayish silt	Depth:	0.30m
NATURAL:	light yellow brown	soft	sandy silt	Depth:	N/A

Description of contexts

- (7700) Topsoil
- (7701) Subsoil
- (7702) Natural geology
- [7703] Cut of ditch
- (7704) Fill of ditch [7703]
- [7705] Cut of ditch
- (7706) Fill of ditch [7705]
- [7707] Cut of ditch terminus
- (7708) Fill of ditch terminus [7707]
- [7709] Cut of ditch

(7710) Fill of ditch [7709]

Trench 78

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.47m **Minimum Depth:** 0.32m

OS Co-ordinates: 414685.1033 570004.3604
(Easting, Northing)

414668.7695 569958.0736

TOPSOIL:	dark grey brown	soft	clayey silt	Depth:	0.30m
SUBSOIL:	dark brown	soft	silty clay	Depth:	0.15m
NATURAL:	orange brown	firm	sandy clay	Depth:	N/A

Description of contexts

(7800) Topsoil

(7801) Subsoil

(7802) Natural geology

[7803] Cut of ditch

(7804) Fill of ditch [7803]

Trench 79

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.43m **Minimum Depth:** 0.38m

OS Co-ordinates: 414707.0240 569995.1289
(Easting, Northing)

414745.3593 569963.7283

TOPSOIL:	dark brown	moderate	silty clay	Depth:	0.12m
SUBSOIL:	mid grey brown	soft	silty clay	Depth:	0.10m
NATURAL:	light yellow brown	firm	silty clay	Depth:	N/A

Description of contexts

(7900) Topsoil

(7901) Subsoil

(7902) Natural geology

Trench 80

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.60m **Minimum Depth:** 0.22m

OS Co-ordinates: 414759.1023 569995.4874

(Easting, Northing)

414806.6222 569981.7028

TOPSOIL:	mid grey brown	soft	silt	Depth:	0.20m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.20m
NATURAL:	mid yellow brown	firm	clay	Depth:	N/A

Description of contexts

(8000) Topsoil

(8001) Subsoil

(8002) Natural geology

Trench 81

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.50m **Minimum Depth:** 0.35m

OS Co-ordinates: 414766.3754 569953.7170

(Easting, Northing)

414811.8846 569936.3952

TOPSOIL:	light grey brown	soft	silty clay	Depth:	0.20m
SUBSOIL:	mid grey brown	soft	silty clay	Depth:	0.25m
NATURAL:	light yellow brown	firm	clay	Depth:	N/A

Description of contexts

(8100) Topsoil

(8101) Subsoil

(8102) Natural geology

[8103] Cut of pit

(8104) Fill of pit [8103]

Trench 82

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.60m

Minimum Depth: 0.30m

OS Co-ordinates:

415428.0322 570270.0779

(Easting, Northing)

415381.7449 570249.4771

TOPSOIL:	mid grey brown	soft	sandy clay	Depth:	0.27m
SUBSOIL:	mid brown grey	soft	sandy clay	Depth:	0.21m
NATURAL:	light orange brown	moderate	stoney silty clay	Depth:	N/A

Description of contexts

(8200) Topsoil

(8201) Subsoil

(8202) Natural geology

[8203] Cut of linear

(8204) Fill

[8205] Cut of linear

(8206) Fill

Trench 83

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.54m

Minimum Depth: 0.36m

OS Co-ordinates:

414778.1403 569926.6020

(Easting, Northing)

414794.6726 569879.6959

TOPSOIL:	dark greyish brown	soft	silty clay	Depth:	0.32m
SUBSOIL:	mid brown	soft	silty clay	Depth:	0.10m
NATURAL:	light brown	firm	silty clay	Depth:	N/A

Description of contexts

- (8300) Topsoil
- (8301) Subsoil
- (8302) Natural geology

Trench 84

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.57m **Minimum Depth:** 0.35m

OS Co-ordinates: 414717.0841 569896.4161
(Easting, Northing)

414765.2497 569881.8571

TOPSOIL:	dark brown	soft	silty clay	Depth:	0.26m
SUBSOIL:	mid grey brown	soft	silty clay	Depth:	0.10m
NATURAL:	mid yellow brown	firm	silty clay	Depth:	N/A

Description of contexts

- (8400) Topsoil
- (8401) Subsoil
- (8402) Natural geology
- [8403] Cut of ditch
- (8404) Fill of ditch [8403]

Trench 85

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.55m **Minimum Depth:** 0.28m

OS Co-ordinates: 414851.9792 569648.4862
(Easting, Northing)

414898.5433 569632.5855

TOPSOIL:	dark brown	soft/friable	clayey silt	Depth:	0.25m
SUBSOIL:	mid reddish brown	soft	clayey silt	Depth:	0.14m
NATURAL:	yellow brown	firm	silty clay	Depth:	N/A

Description of contexts

(8500) Topsoil

(8501) Subsoil

(8502) Natural geology

(8503) Fill of ditch [8504]

[8504] Cut of ditch

Trench 86

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.56m **Minimum Depth:** 0.29m

OS Co-ordinates: 414999.8950 569694.1705

(Easting, Northing)

 414953.0056 569676.8015

TOPSOIL: dark grey brown soft silty clay **Depth:** 0.22m

SUBSOIL: mid grey brown soft silty clay **Depth:** 0.14m

NATURAL: mid brown grey to yellow grey firm sandy clay with bedrock **Depth:** N/A

Description of contexts

(8600) Topsoil

(8601) Subsoil

(8602) Natural geology

(8603) Natural bedrock

Trench 87

Width: 2.00m **Length:** 50.00m

Maximum Depth: 0.60m **Minimum Depth:** 0.30m

OS Co-ordinates: 415001.6571 569671.3194

(Easting, Northing)

 415017.9734 569625.4155

TOPSOIL: dark grey brown soft clayey silt **Depth:** 0.30m

SUBSOIL: mid brown moderately compact silty clay **Depth:** 0.10m

NATURAL: mid yellow orange firm clay **Depth:** N/A

Description of contexts

- (8700) Topsoil
- (8701) Subsoil
- (8702) Natural geology
- [8703] Cut of ditch
- (8704) Fill of ditch [8703]
- [8705] Cut of ditch
- (8706) Fill of ditch [8705]
- [8707] Cut of ditch
- (8708) Fill of ditch [8707]

Trench 88

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.50m

Minimum Depth: 0.30m

OS Co-ordinates:

414962.9819 569664.2890

(Easting, Northing)

414979.3131 569617.4419

TOPSOIL:	dark grey brown	soft	silt	Depth:	0.30m
SUBSOIL:	dark grey	moderately compact	silty clay	Depth:	0.10m
NATURAL:	orange brown	firm & friable	clay & sandstone bedrock	Depth:	N/A

Description of contexts

- (8800) Topsoil
- (8801) Natural geology
- (8802) Subsoil
- [8803] Cut of post hole
- (8804) Fill of post hole [8803]
- [8805] Cut of post hole
- (8806) Fill of post hole [8805]
- [8807] Cut of post hole
- (8808) Fill of post hole [8807]
- [8809] Cut of ditch
- (8810) Fill of ditch [8809]

- (8811) Fill of post hole [8803]
- [8812] Cut of ditch
- (8813) Fill of ditch [8838]
- [8814] Cut of ditch
- (8815) Fill of ditch [8814]
- [8816] Cut of ditch
- (8817) Deposit overlaying ditches [8814] and [8816]
- [8818] Fill of ditch [8812]
- (8819) Primary fill of post hole [8803]
- (8820) Primary fill of post hole [8814]
- [8821] Cut of possible ring ditch
- (8822) Fill of ring ditch [8821]
- [8823] Cut of possible ring ditch
- (8824) Fill of ring ditch [8823]
- [8825] Cut of ring ditch
- (8826) Fill of ring ditch [8825]
- [8827] Cut of ditch
- (8828) Fill of ditch [8827]
- [8829] Cut of ring ditch
- [8830] Cut of ring ditch
- (8831) Fill of ring ditch [8830]
- (8832) Fill of ditch [8816]
- [8833] Cut of ditch
- (8834) Fill of ditch [8833]
- (8835) Possible packing stones within ring ditch [8830]
- [8836] Cut of possible post hole
- (8837) Fill of post hole [8836]
- [8838] Cut of ditch
- (8839) Fill of ring ditch [8825]

Trench 89

Width: 2.00m

Length: 50.00m

Maximum Depth: 0.47m

Minimum Depth: 0.27m

OS Co-ordinates:

415169.8319 569944.7412

(Easting, Northing)

415217.8169 569930.7039

TOPSOIL:	mid grey brown	soft	silty clay	Depth:	0.26m
NATURAL:	varied orange grey/ black/ orange brown		firm	silty stoney clay	Depth:
	N/A				

Description of contexts

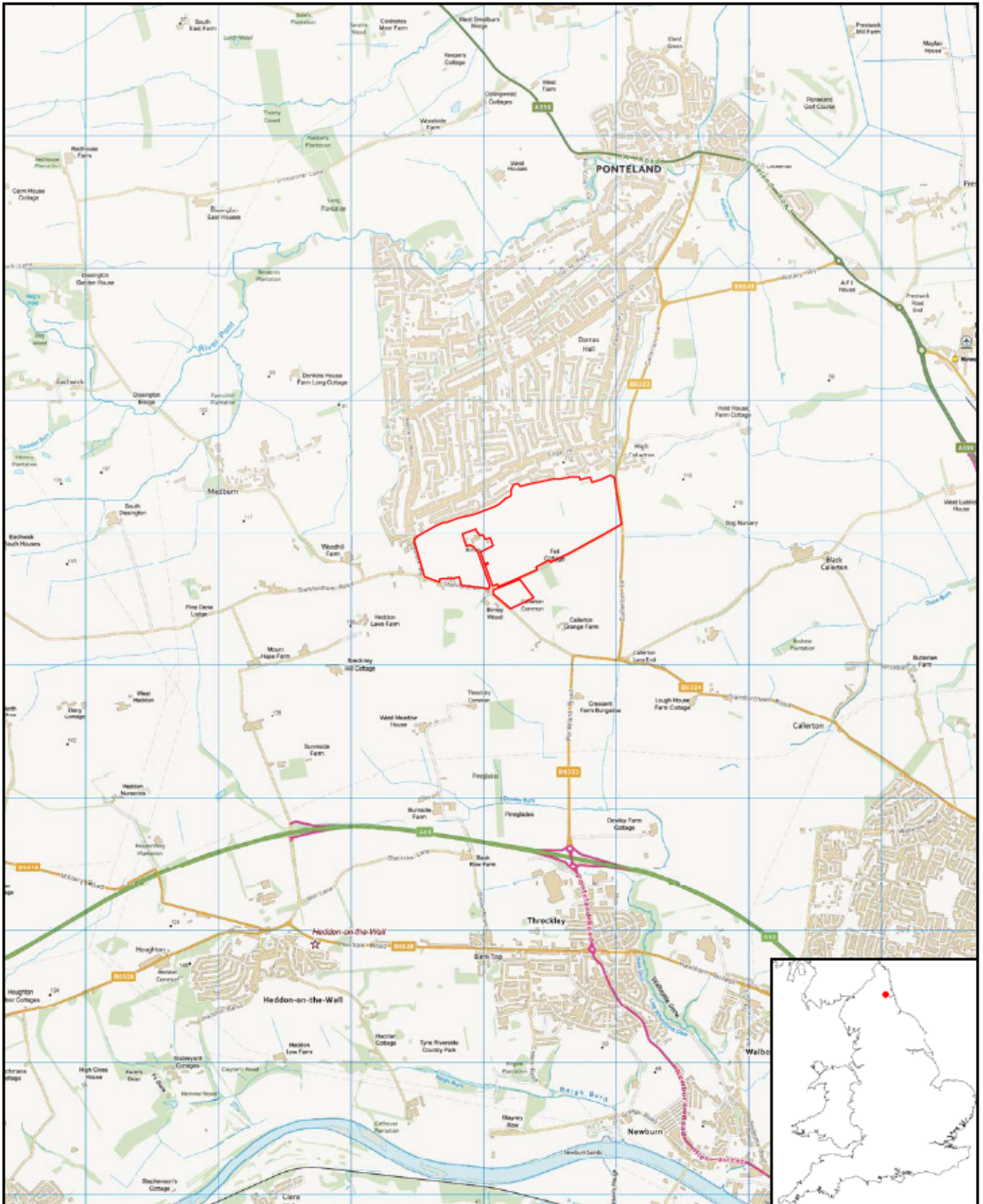
(8900) Topsoil

(8901) Natural geology

(8902) Natural geology

(8901) Natural geology

APPENDIX 2: FIGURES





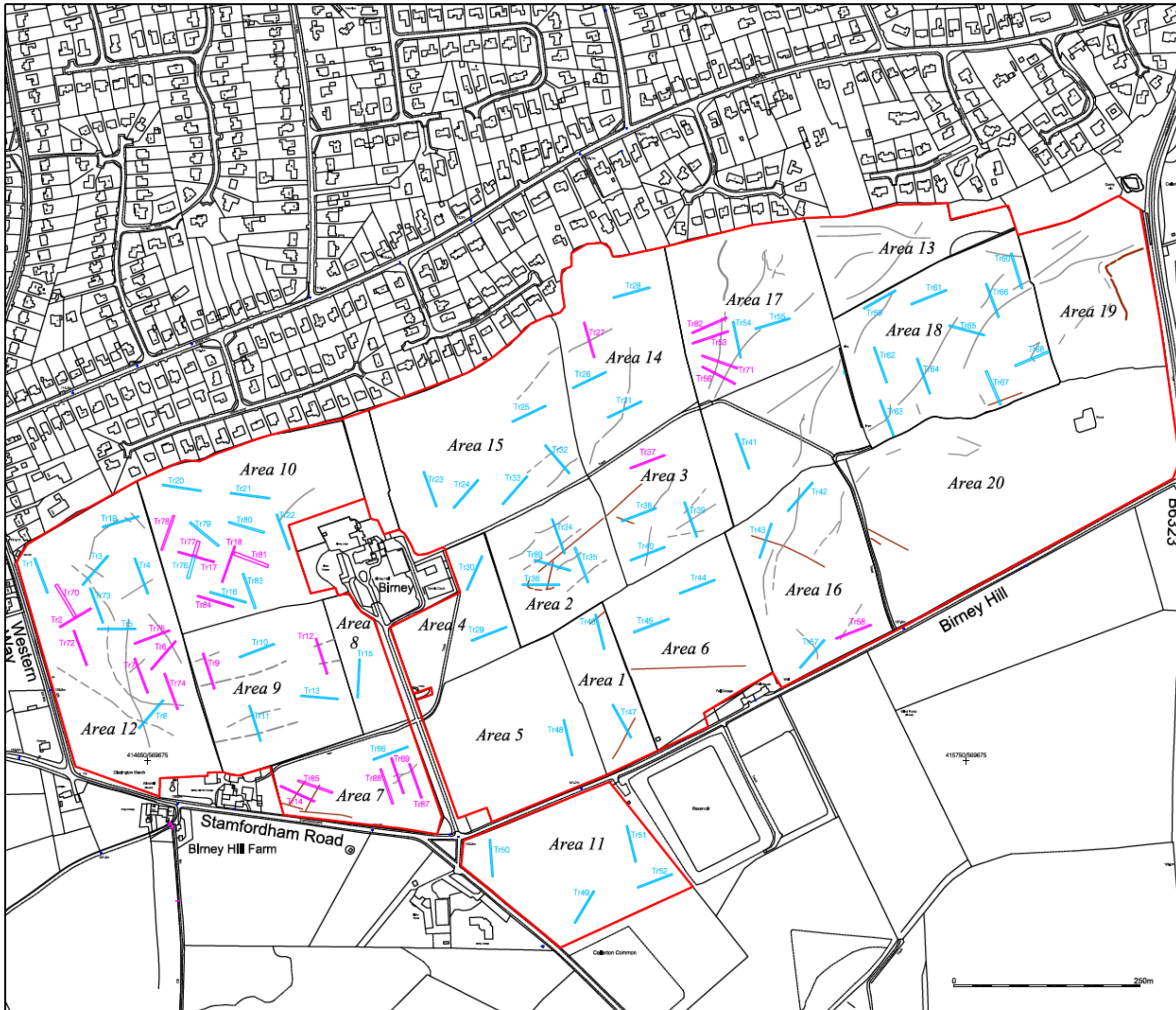
	<p>PROJECT: Land at Birney Hill, Porteland, Northumberland</p> <p>SCALE: 1:40,000 at A4</p> <p>REPORT No: CP11190</p> <p>CLIENT: Lugano Group Ltd.</p> <p>DRAWN BY: AP</p> <p>DATE: December 2014</p> <p>FIGURE: 1</p>	<p>KEY:</p>  <p>Site location</p>	 <p>Reproduced by permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office. © Crown copyright. All rights reserved. Licence number 100019512</p>
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Figure 1: Site location.



PROJECT:
Land at Birney Hill, Ponteland,
Northumberland

CLIENT:
Lugano Group Ltd.

SCALE: 1:5,000 at A4

DRAWN BY: AB

DATE: December 2014

KEY:

- Site location
- Trenches containing archaeology
- Trenches without archaeology

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FIGURE: 2

Figure 2: Location of evaluation trenches (showing targeted geophysical anomalies).

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

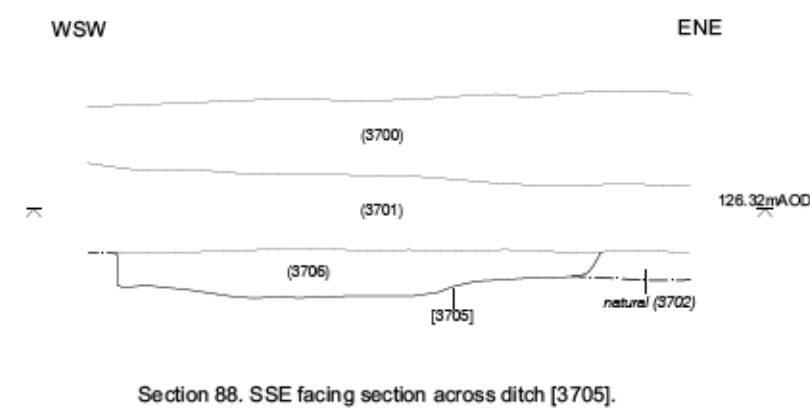
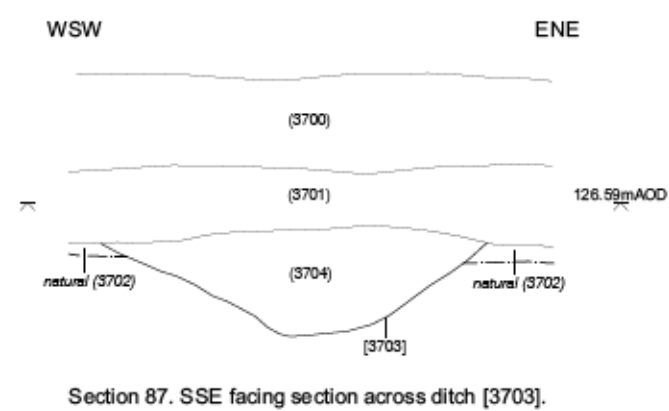
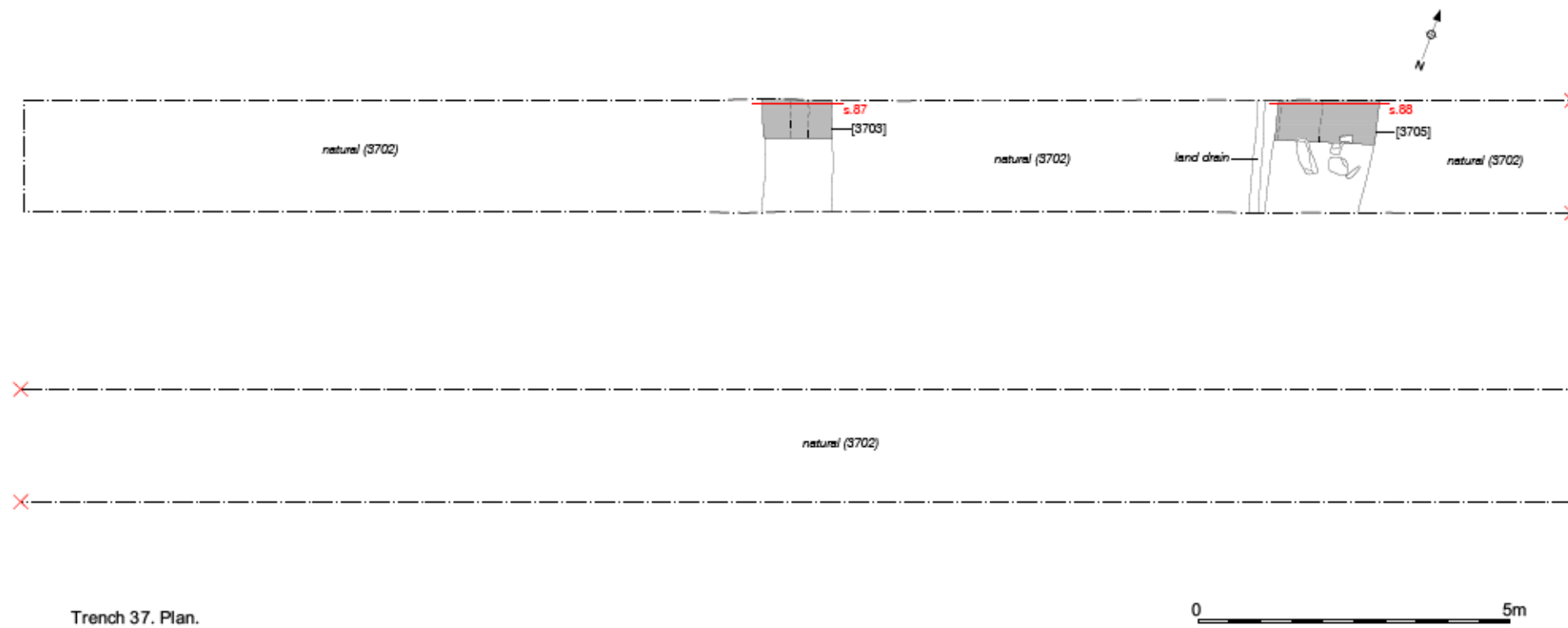
SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
-  Height mAOd
-  Section location
-  Excavated slot
-  Limit of excavation



0 1m

REPORT No:

CP11190

FIGURE:

3

Figure 3: Area 3. Trench 37; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

4

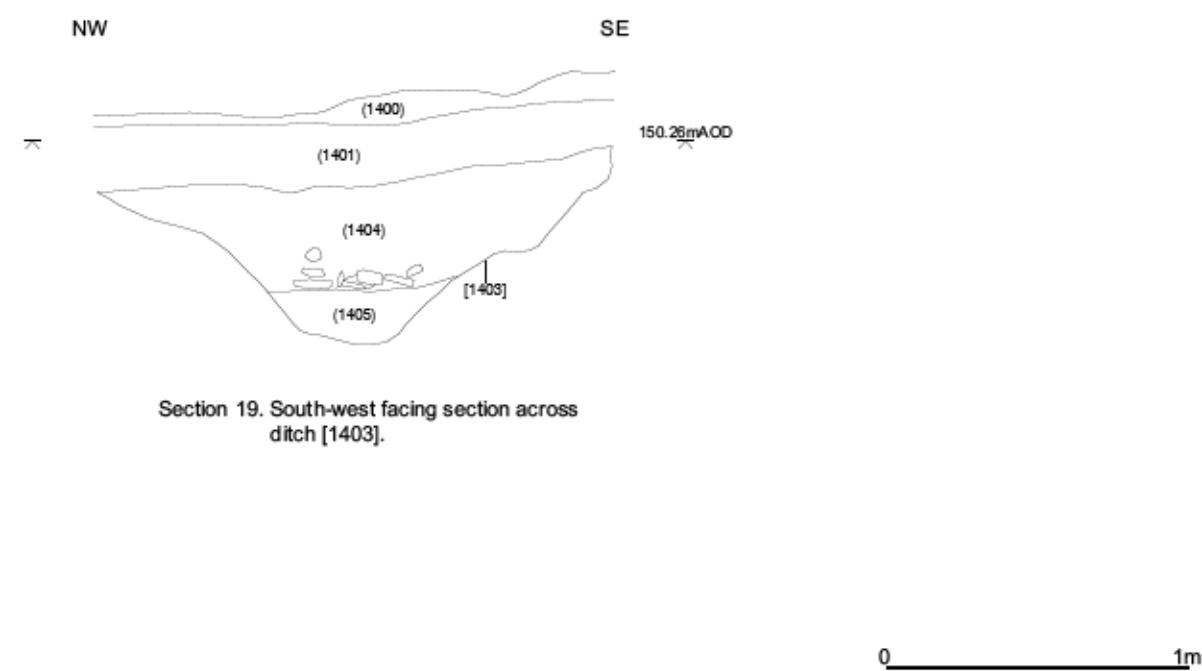
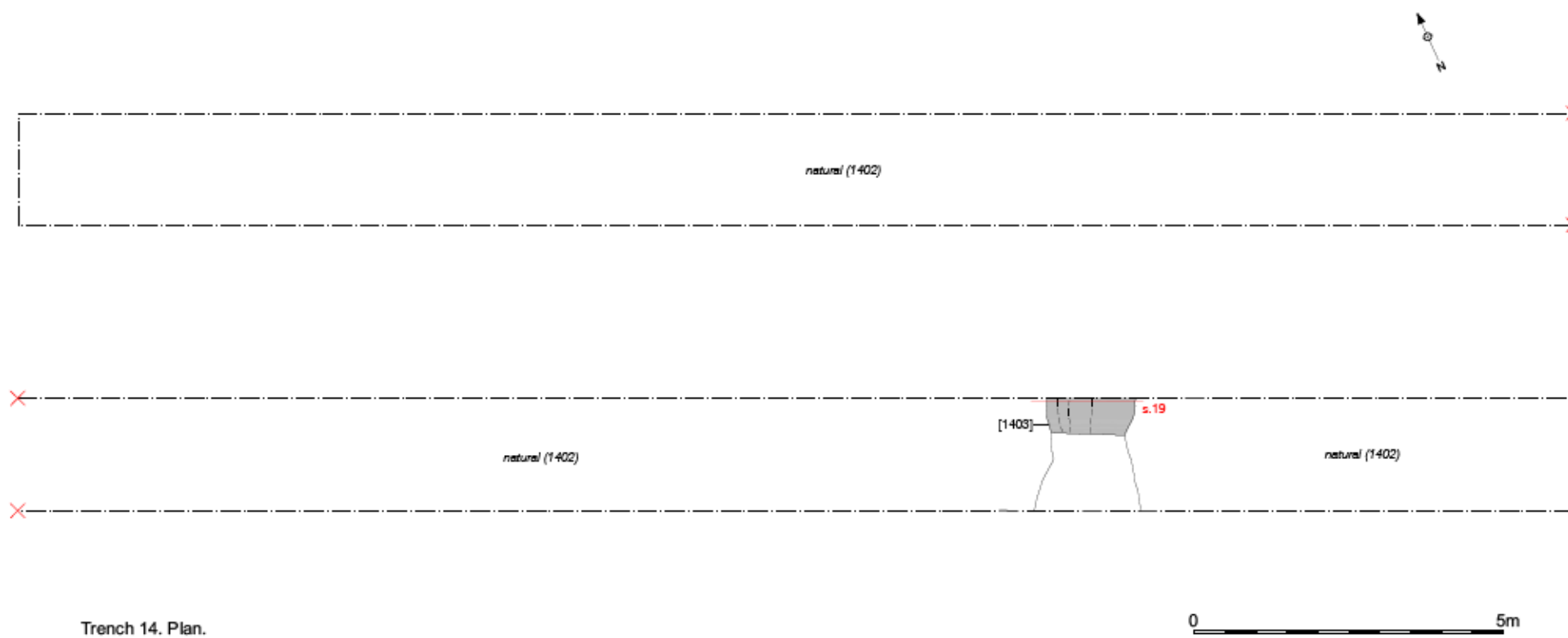


Figure 4: Area 7. Trench 14; plan and section.

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Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

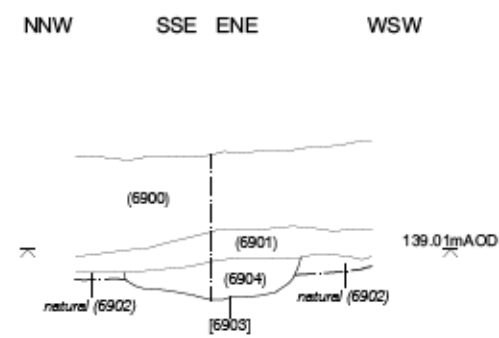
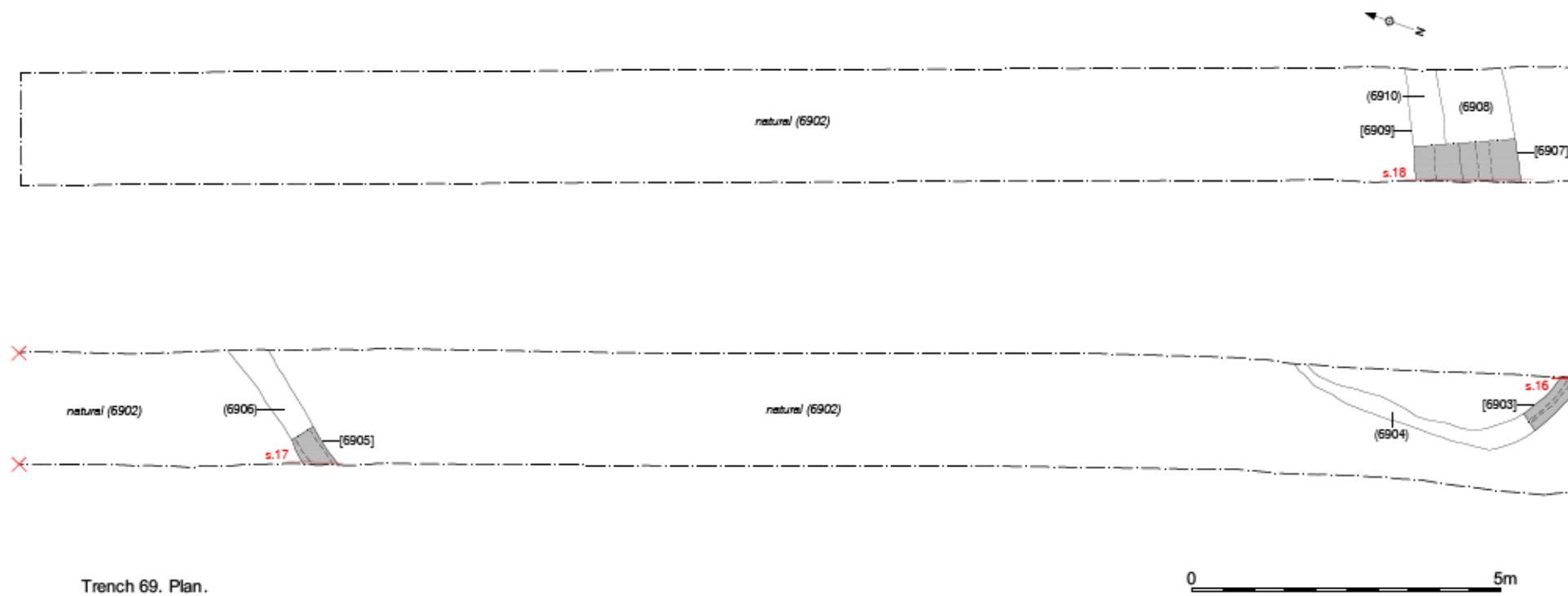
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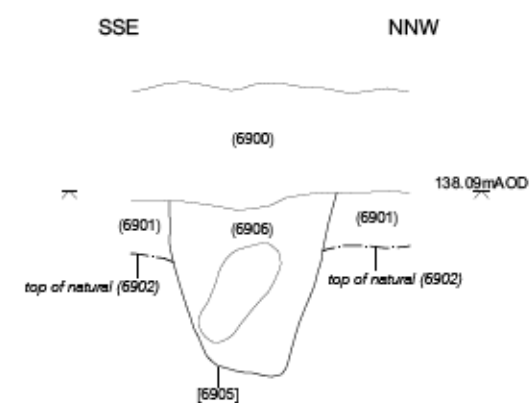
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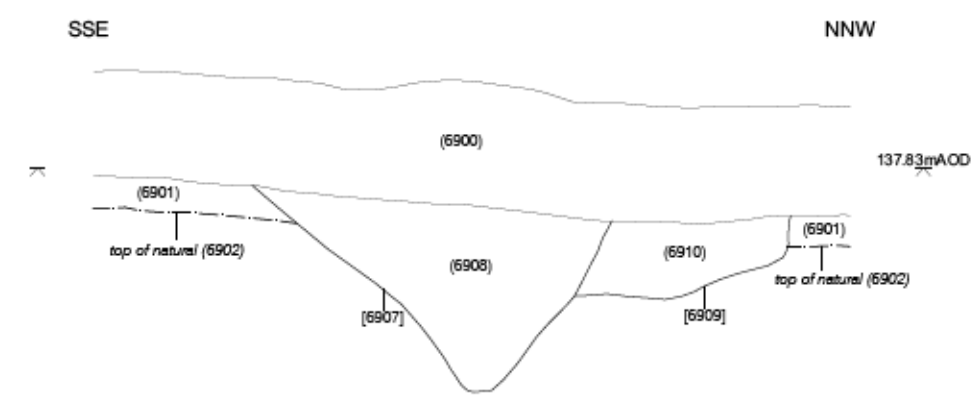
- (101) Context number
-  Height mAOd
-  Section location
-  Excavated slot
-  Limit of excavation



Section 16. WSW & NNW facing section across ditch [6903].



Section 17. ENE facing section across ditch [6905].



Section 18. ENE facing section across ditches [6909] and [6907].

0 1m

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CP11190

FIGURE:

5

Figure 5: Area 7. Trench 69; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:

Lugano Group Ltd

SCALE: Plan 1:100 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
- Limit of excavation

REPORT No:

CP11190

FIGURE:

6



Figure 6: Area 7. Trench 85; plan.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:

Lugano Group Ltd

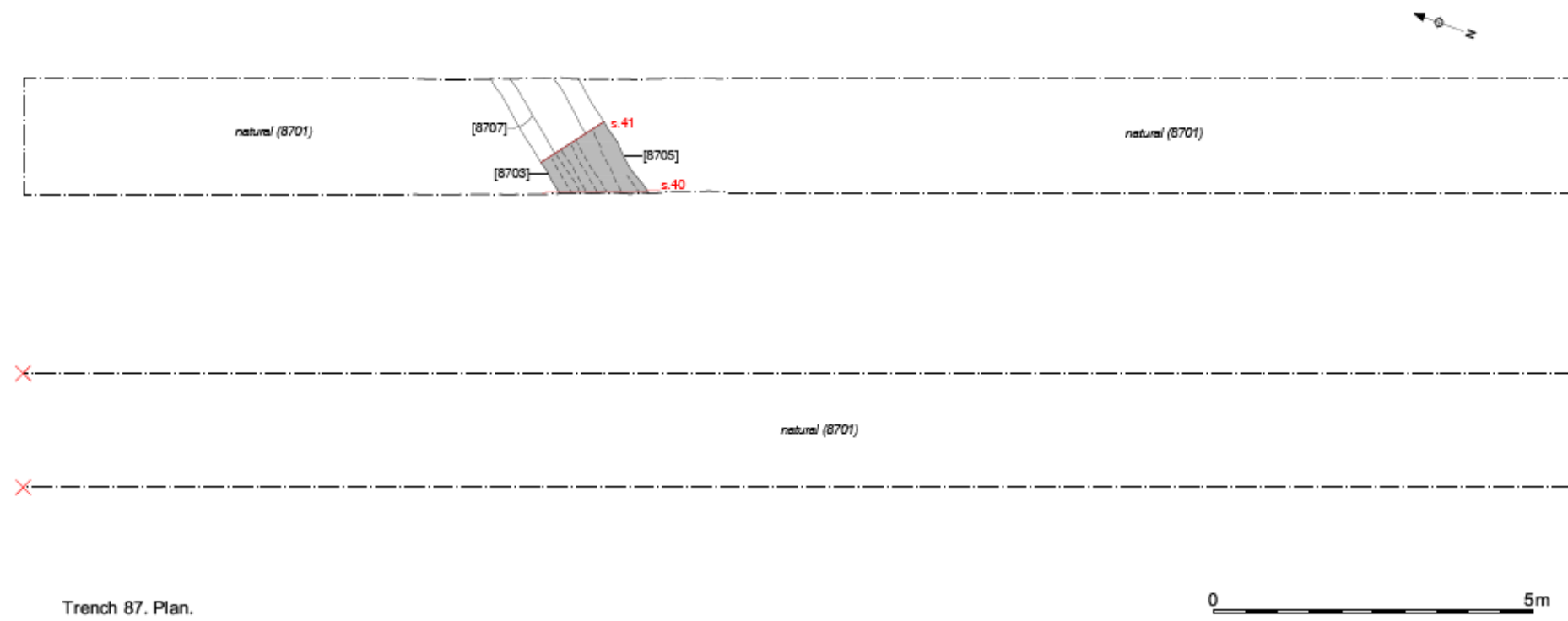
SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

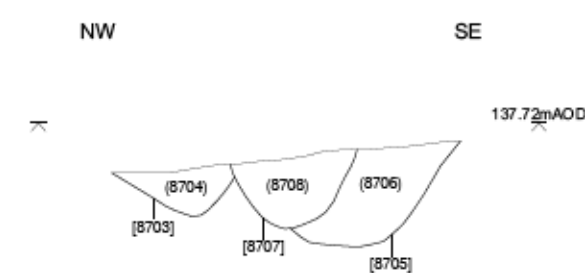
DATE: December 2014

KEY:

- (101) Context number
- Height mAOD
- Section location
- Excavated slot
- Limit of excavation



Section 40. ENE facing section showing ditches [8703], [8705] and [8707].



Section 41. South-west facing section across ditches [8703], [8705] and [8707].

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CP11190

FIGURE:

7

Figure 7: Area 7. Trench 87; plan and sections.

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Land at Birney Hill,
Ponteland, Northumberland

CLIENT:

Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
- Height mAOD
- Section location
- Excavated slot
- Limit of excavation

REPORT No:

CP11190

FIGURE:

8

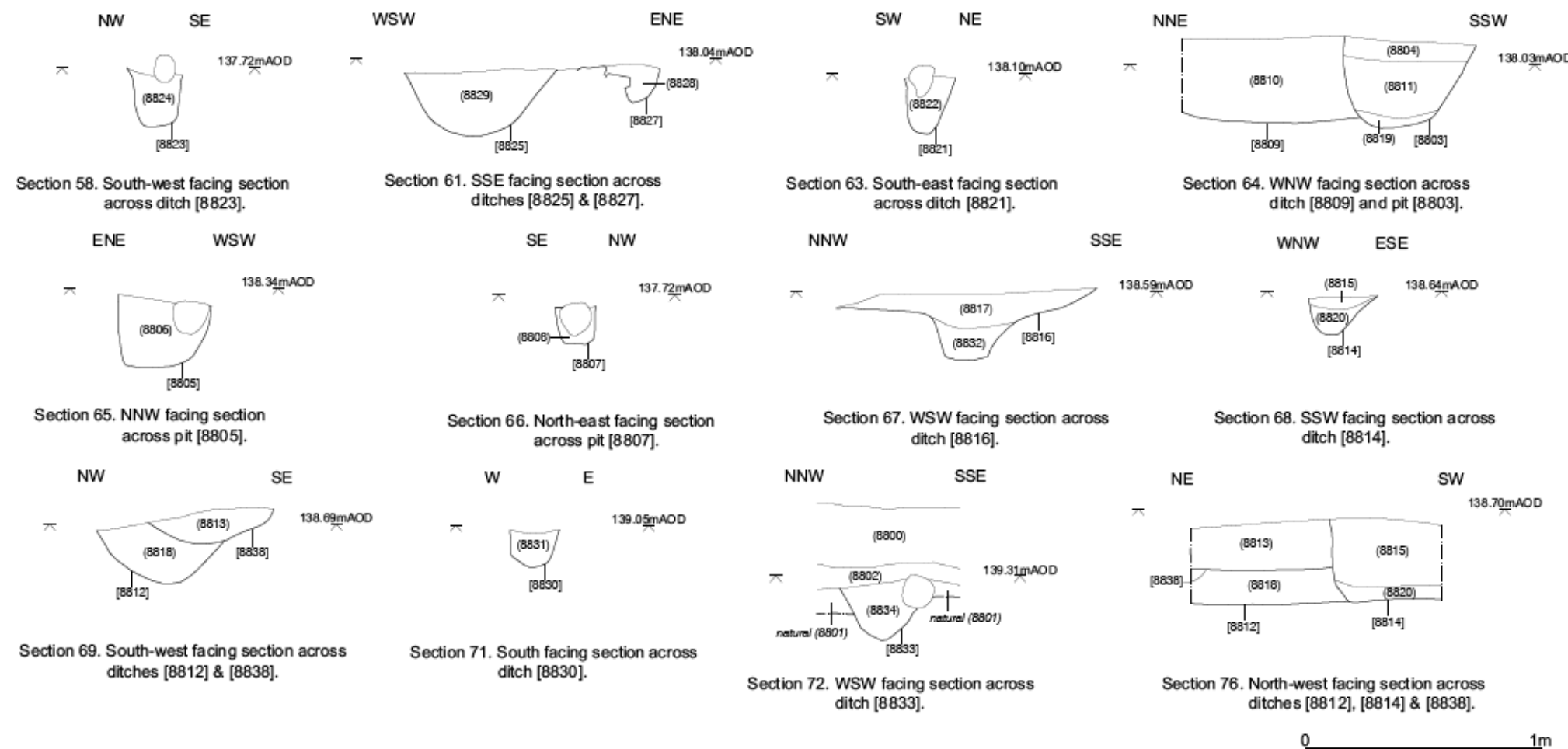
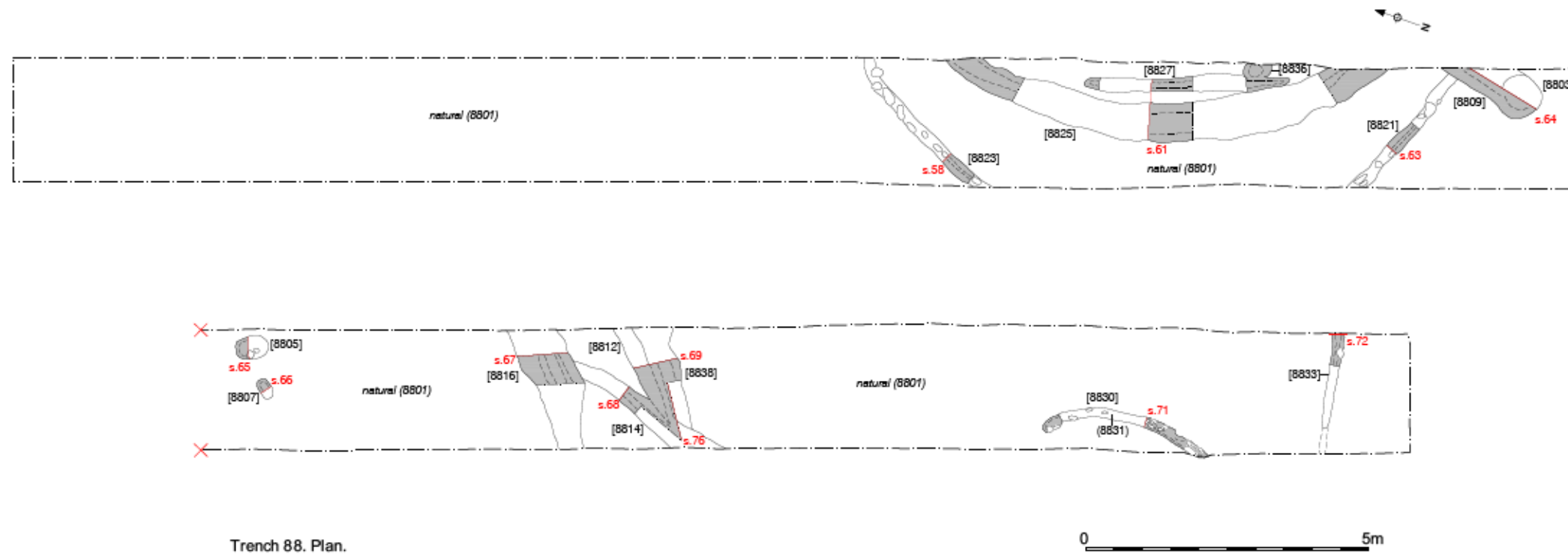


Figure 8: Area 7. Trench 88; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:




Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
-  Height mAOB
-  Section location
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

9

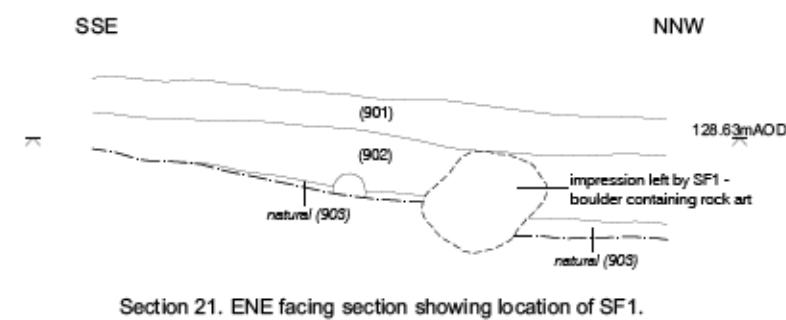
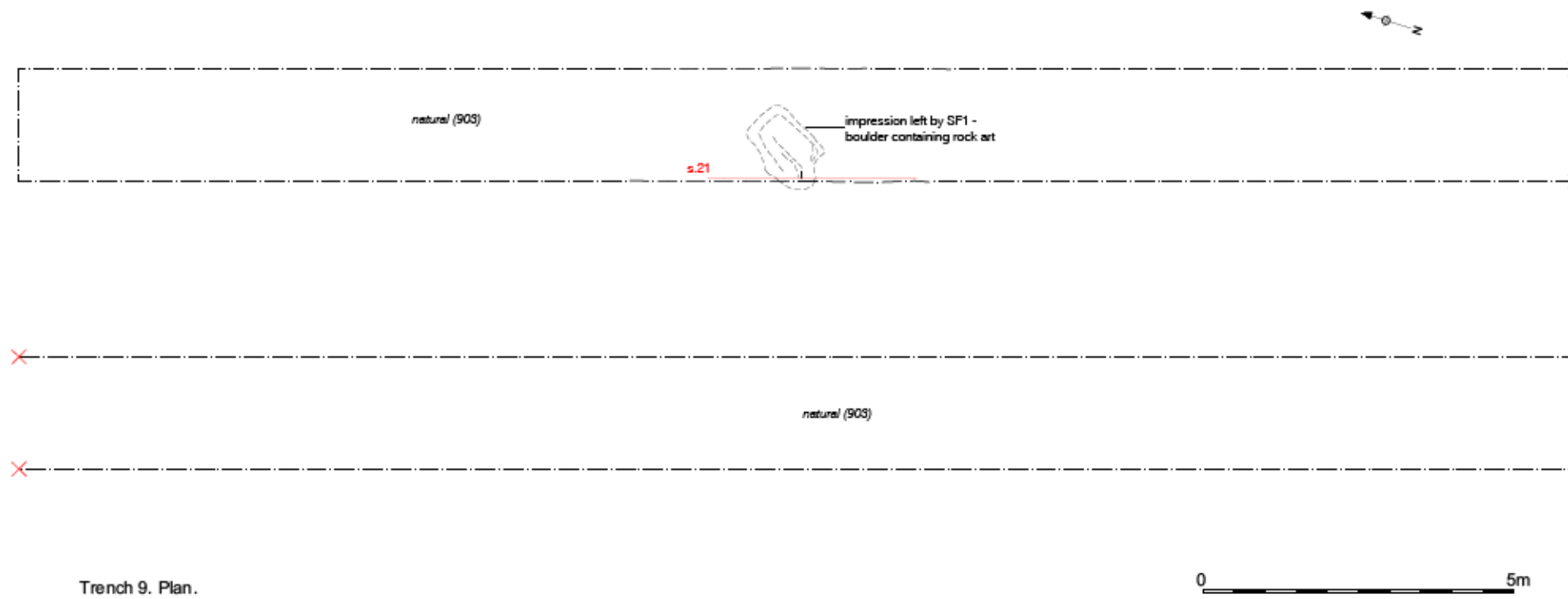


Figure 9: Area 9. Trench 9; plan and section.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

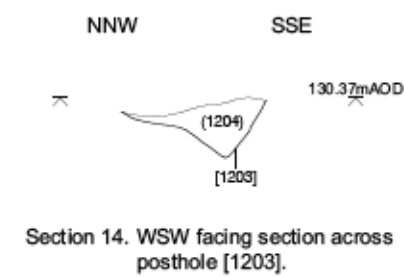
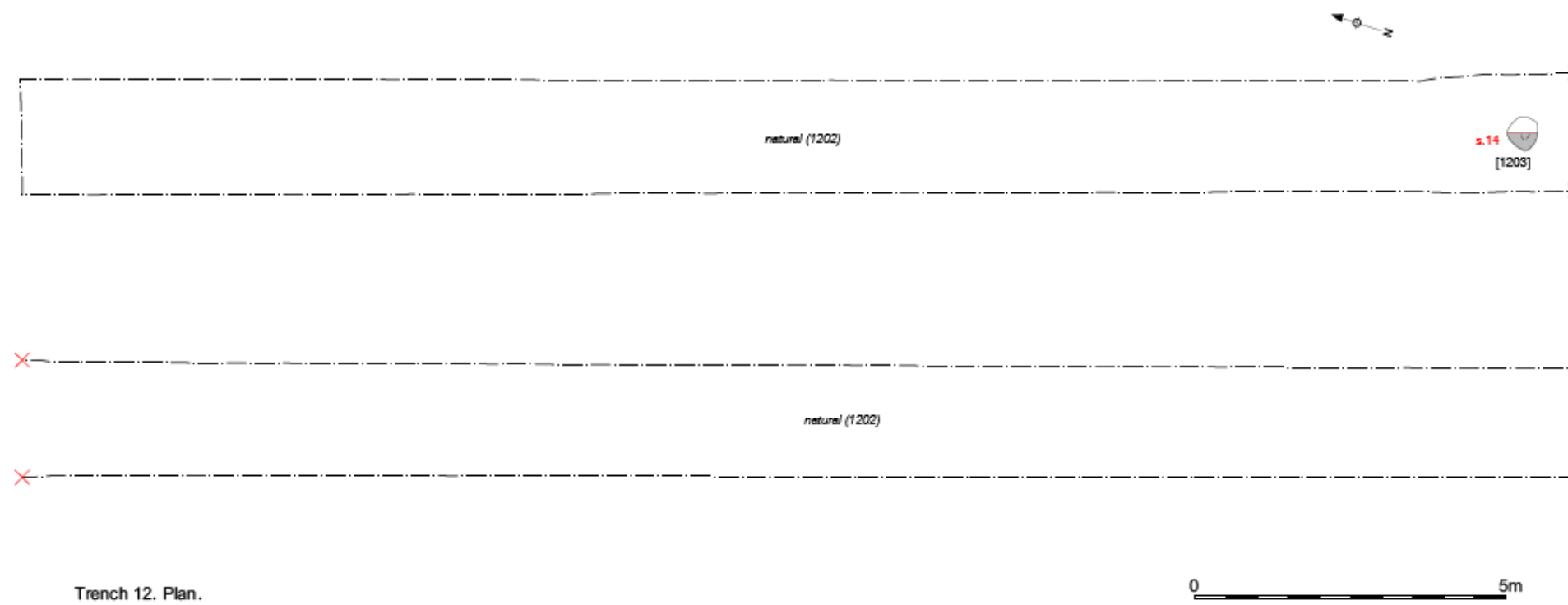
- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

10



0 1m

Figure 10: Area 9. Trench 12; plan and section.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:

Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
- Height mAOd
- Section location
- Excavated slot
- Limit of excavation

REPORT No:

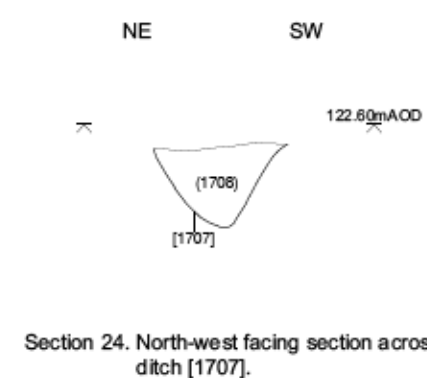
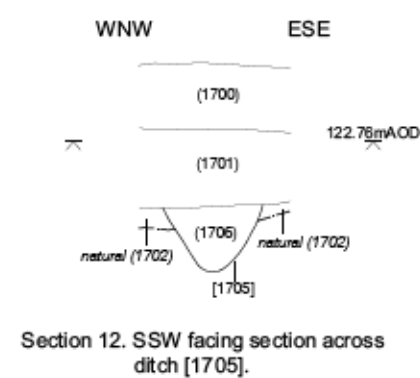
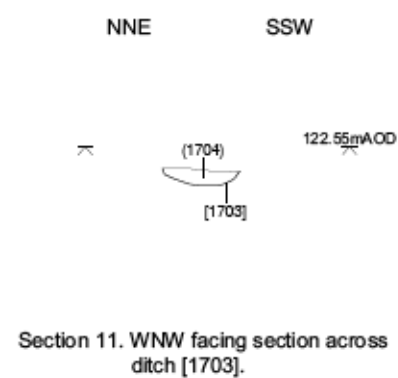
CP11190

FIGURE:

11



Trench 17. Plan.



0 1m

Figure 11: Area 10. Trench 17; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

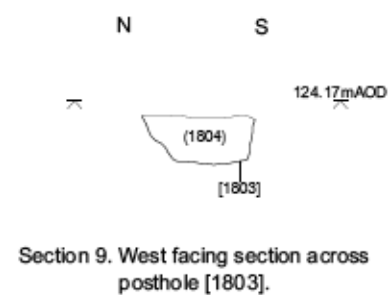
- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

12



0 1m

Figure 12: Area 10. Trench 18; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





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SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

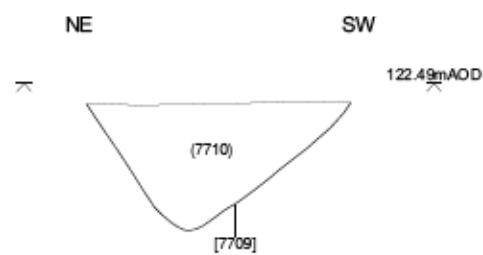
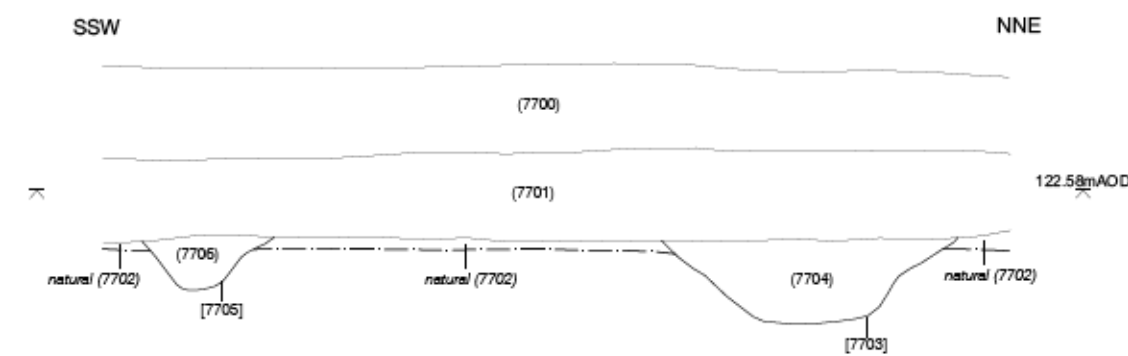
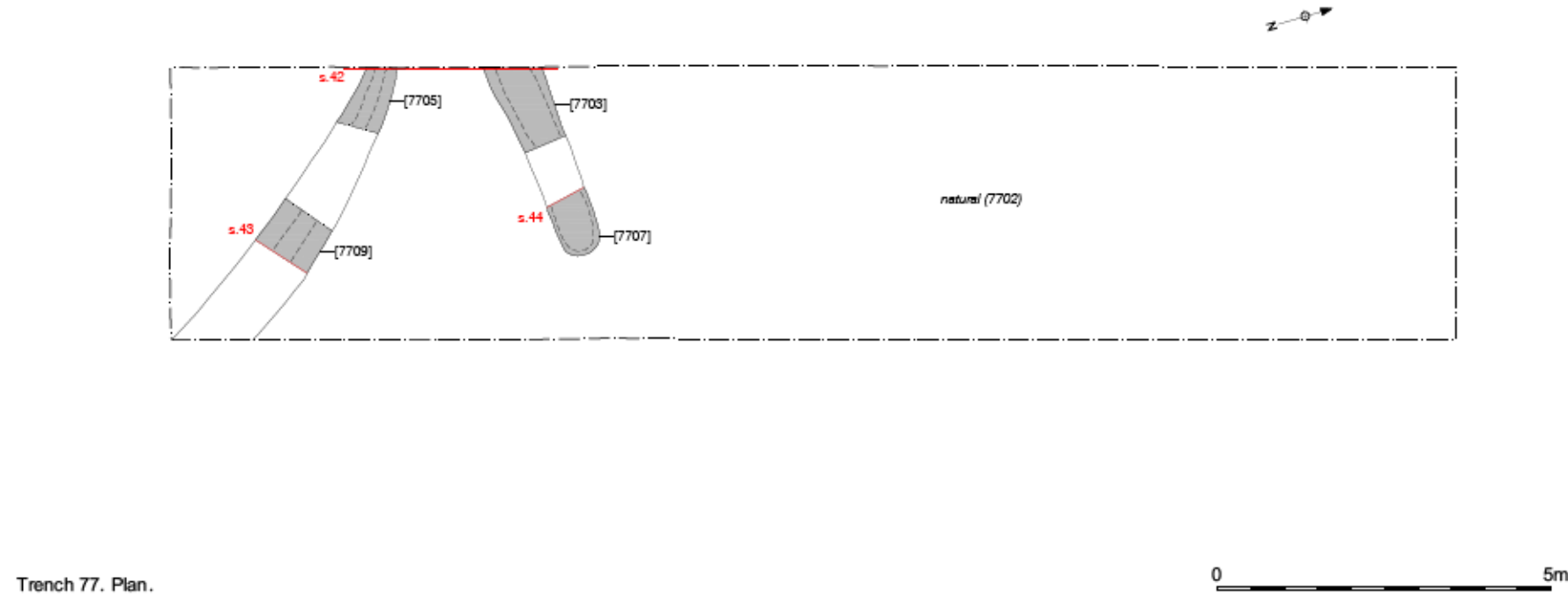
- (101) Context number
-  Height mAOB
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

13



0 1m

Figure 13: Area 10. Trench 77; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





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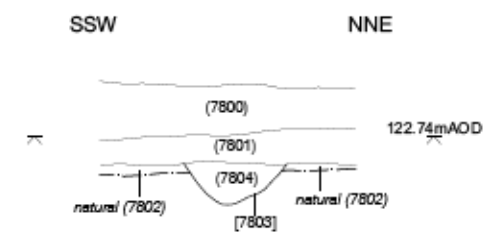
SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

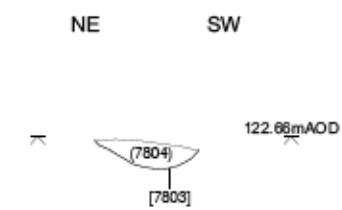
DATE: December 2014

KEY:

(101)	Context number
	Height mAOd
	Section location
	Excavated slot
	Limit of excavation



Section 29. ESE facing section across
ditch [7803].



Section 30. North-west facing section across
ditch [7803].

0 1m

REPORT No:

CP11190

FIGURE:

14

Figure 14: Area 10. Trench 78; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

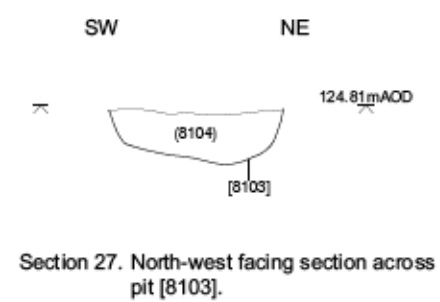
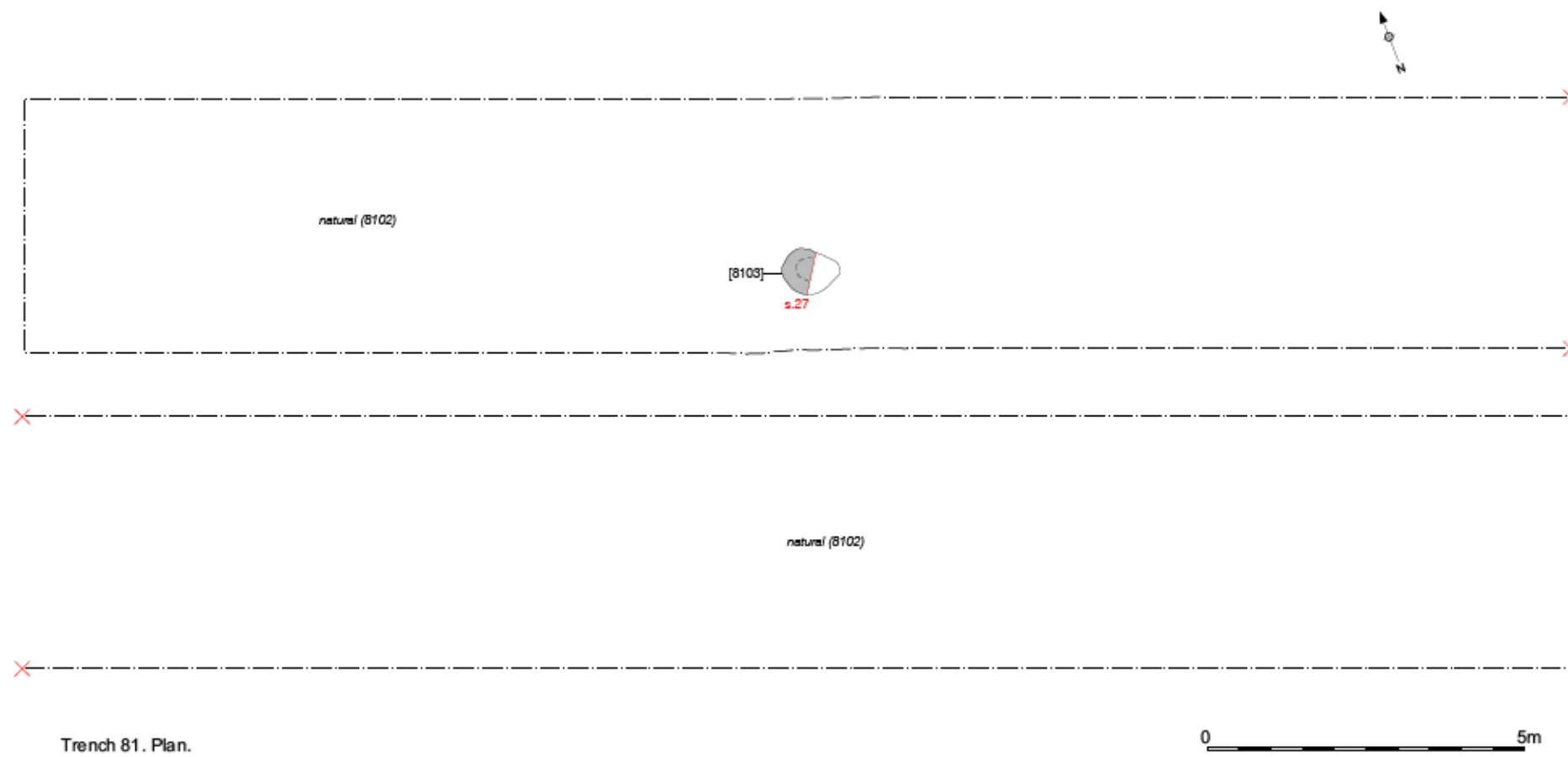
- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

15



0 1m

Figure 15: Area 10. Trench 81; plan and section.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

16

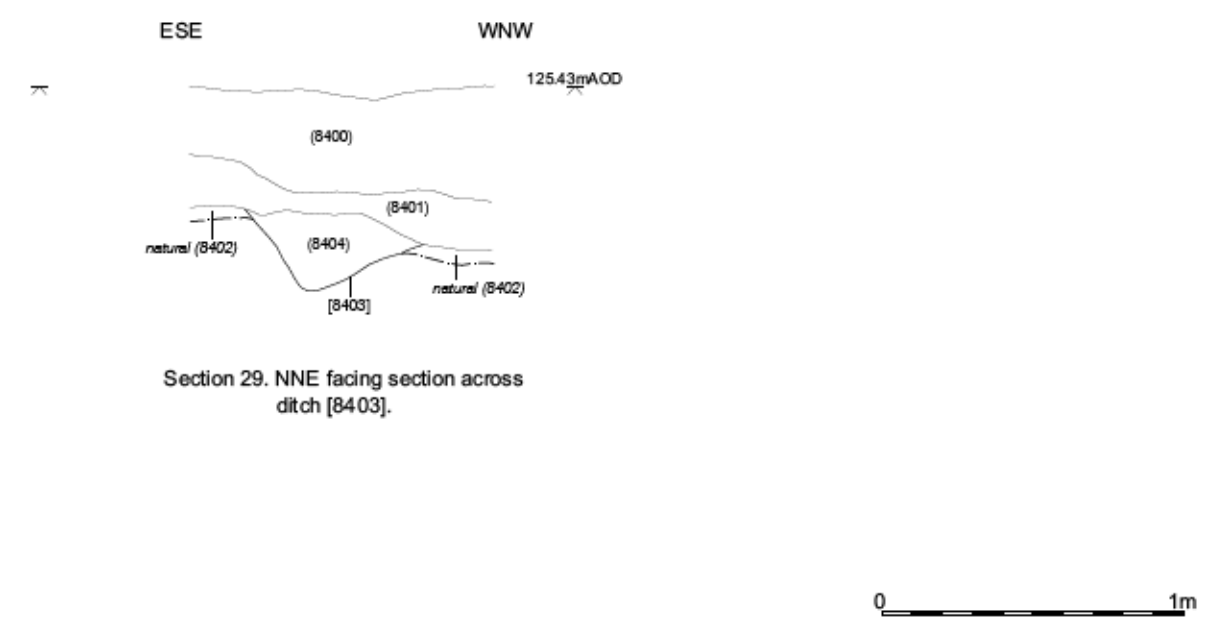
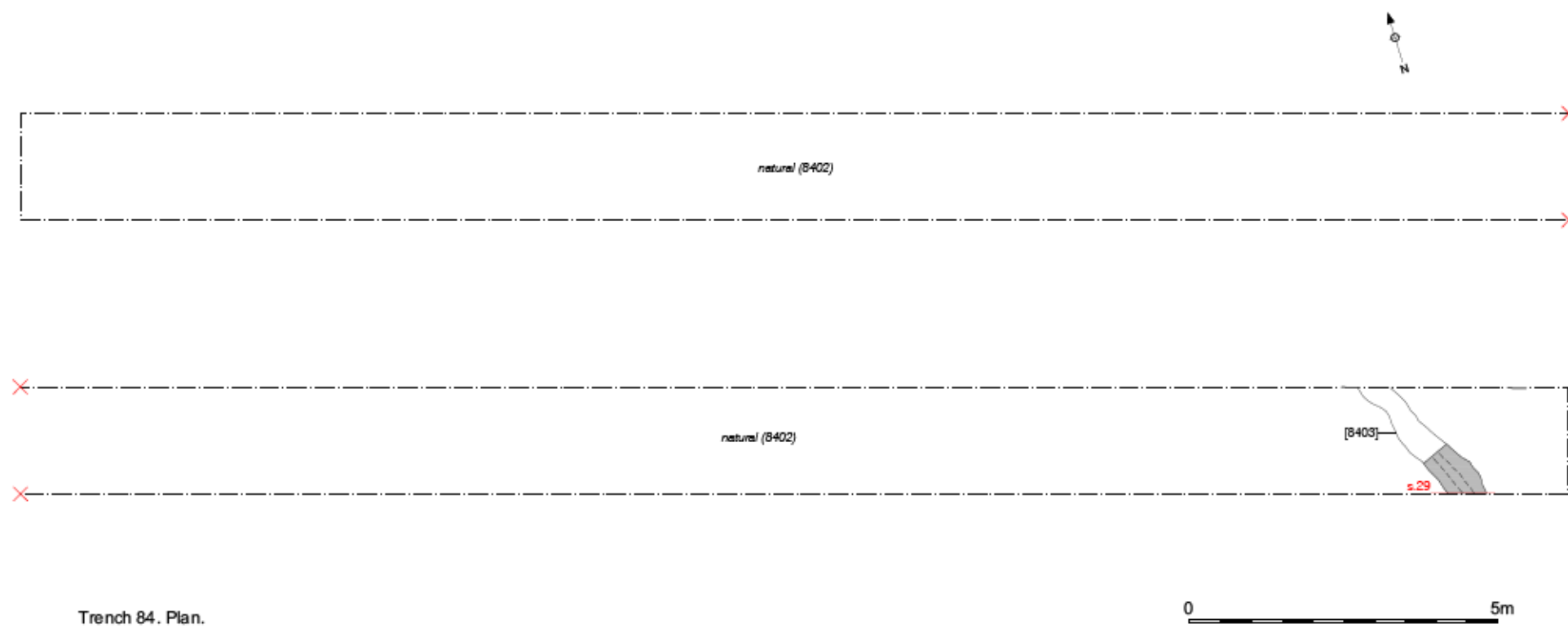


Figure 16: Area 10. Trench 84; plan and section.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

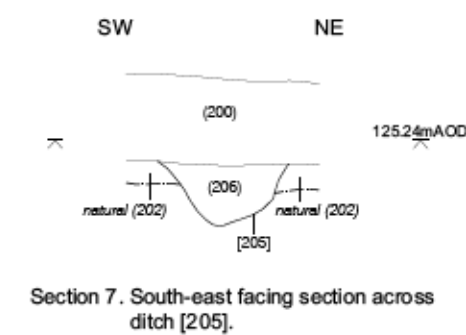
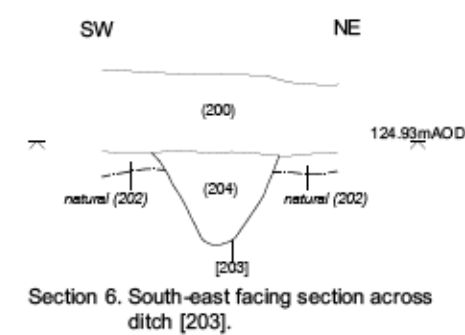
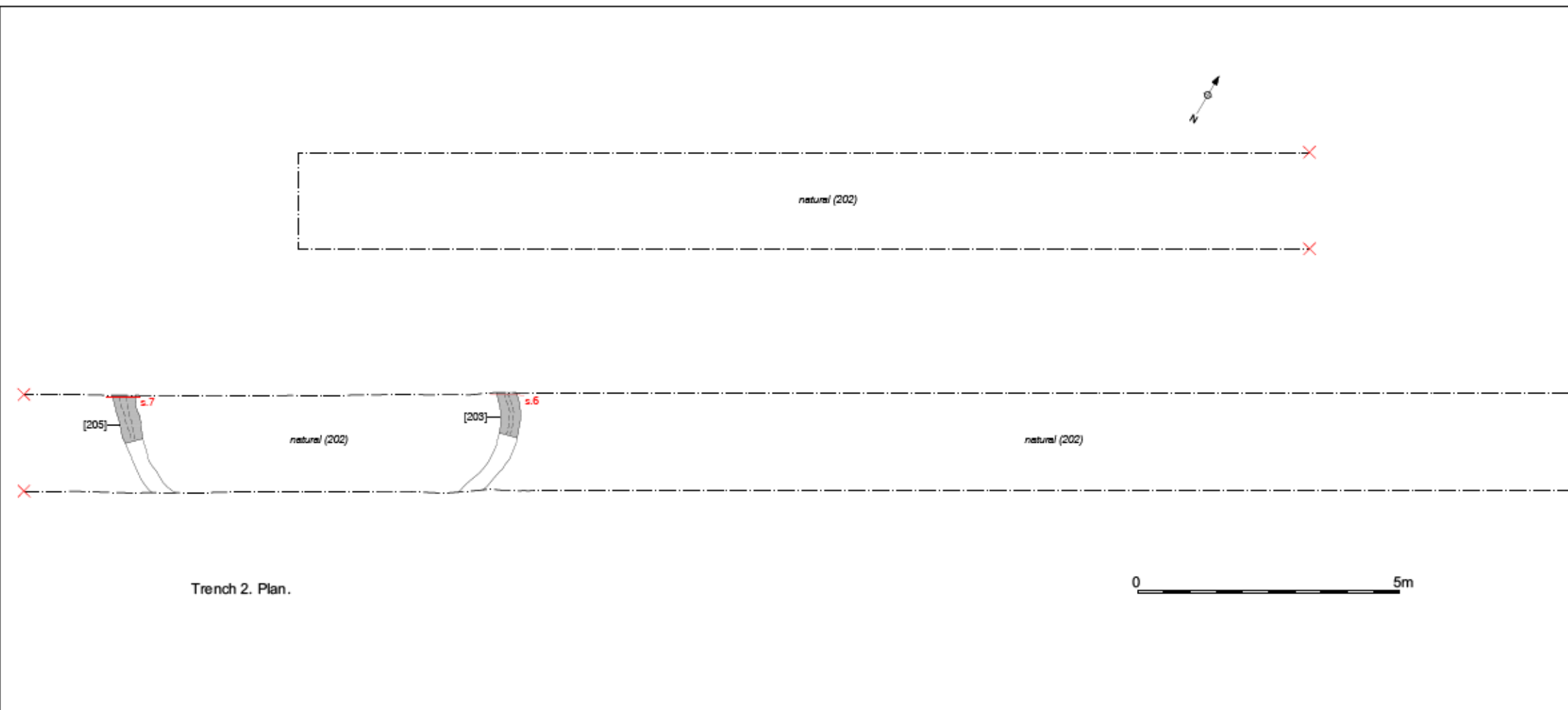
- (101) Context number
-  Height mAOd
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

17



0 1m

Figure 17: Area 12. Trench 2; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

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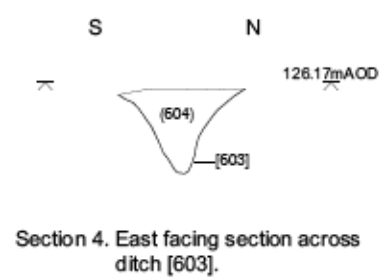
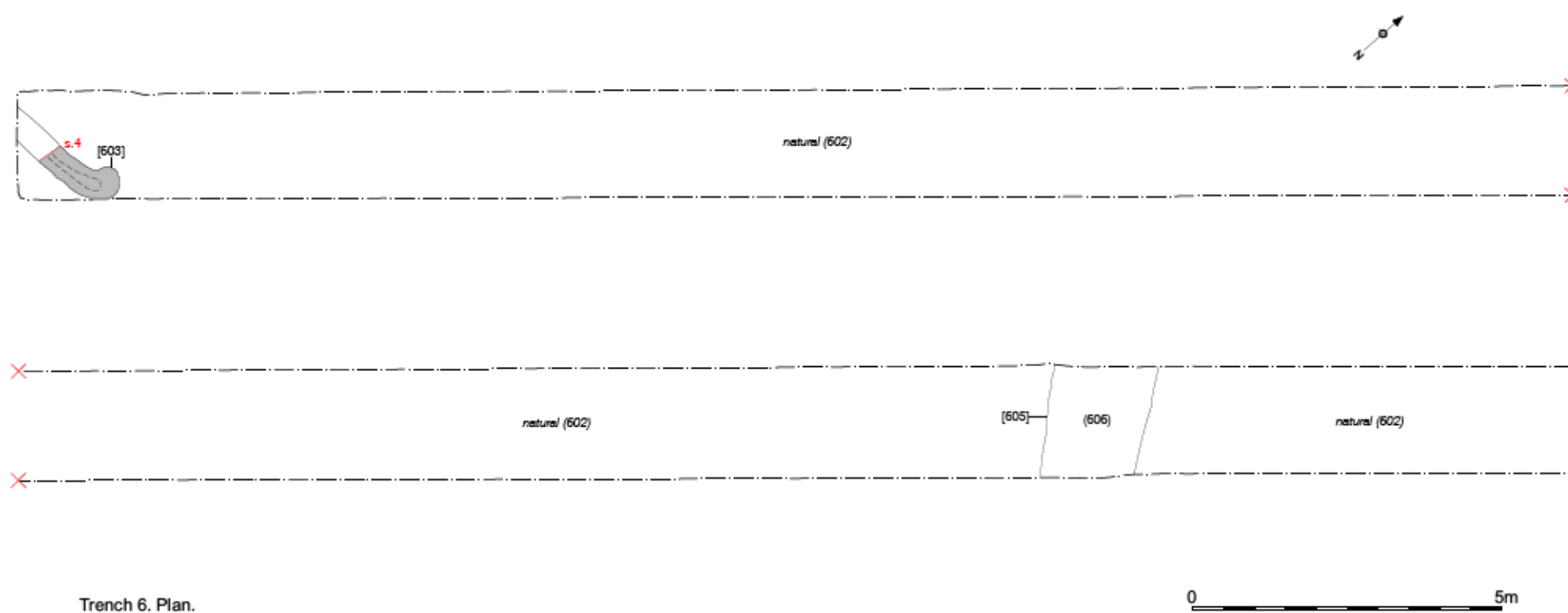
- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

18



0 1m

Figure 18: Area 12. Trench 6; plan and section.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

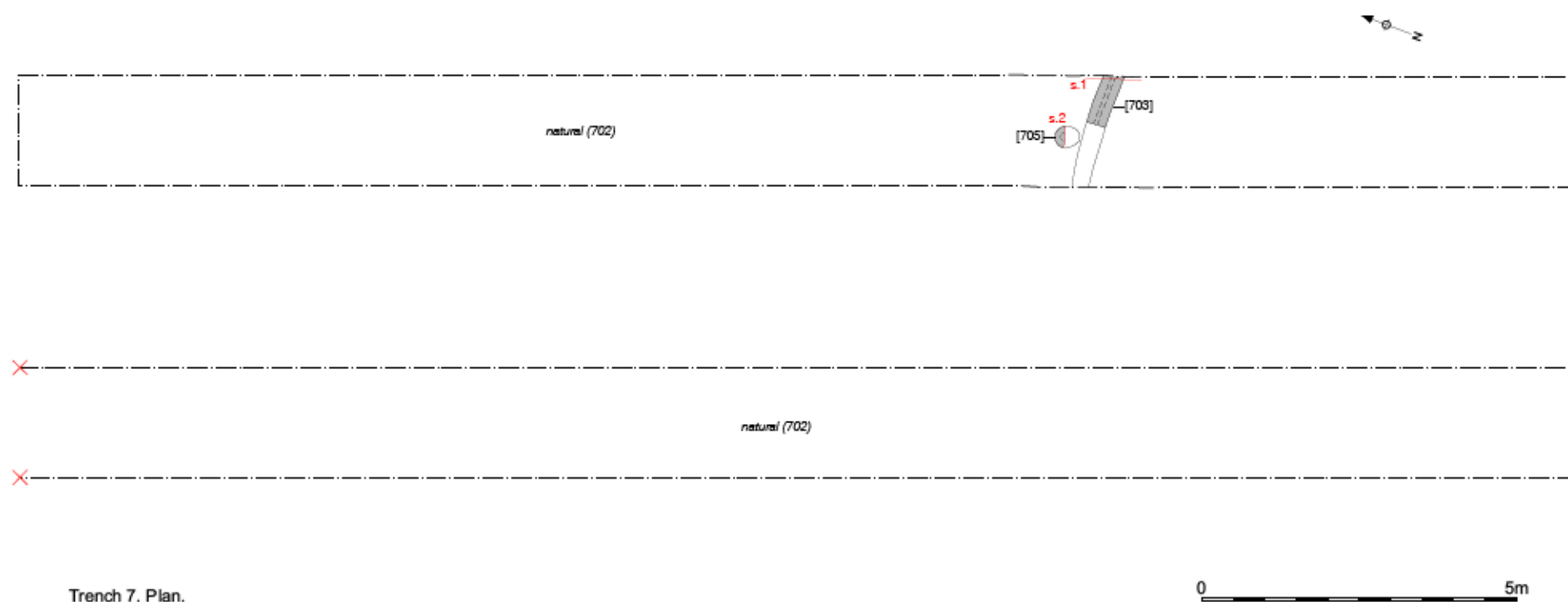
- (101) Context number
-  Height mAOd
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

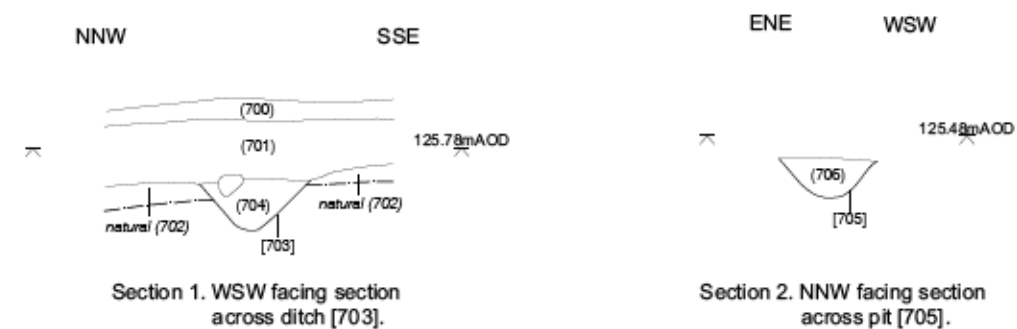
CP11190

FIGURE:

19



Trench 7. Plan.



0 1m

Figure 19: Area 12. Trench 7; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
-  Height mAOd
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

20

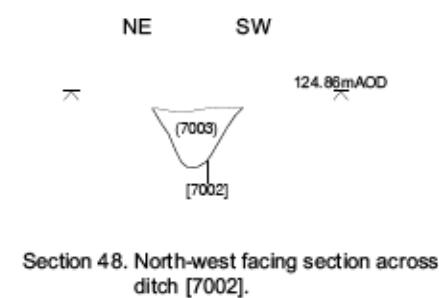
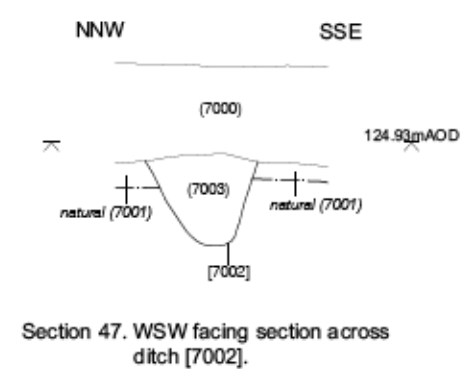
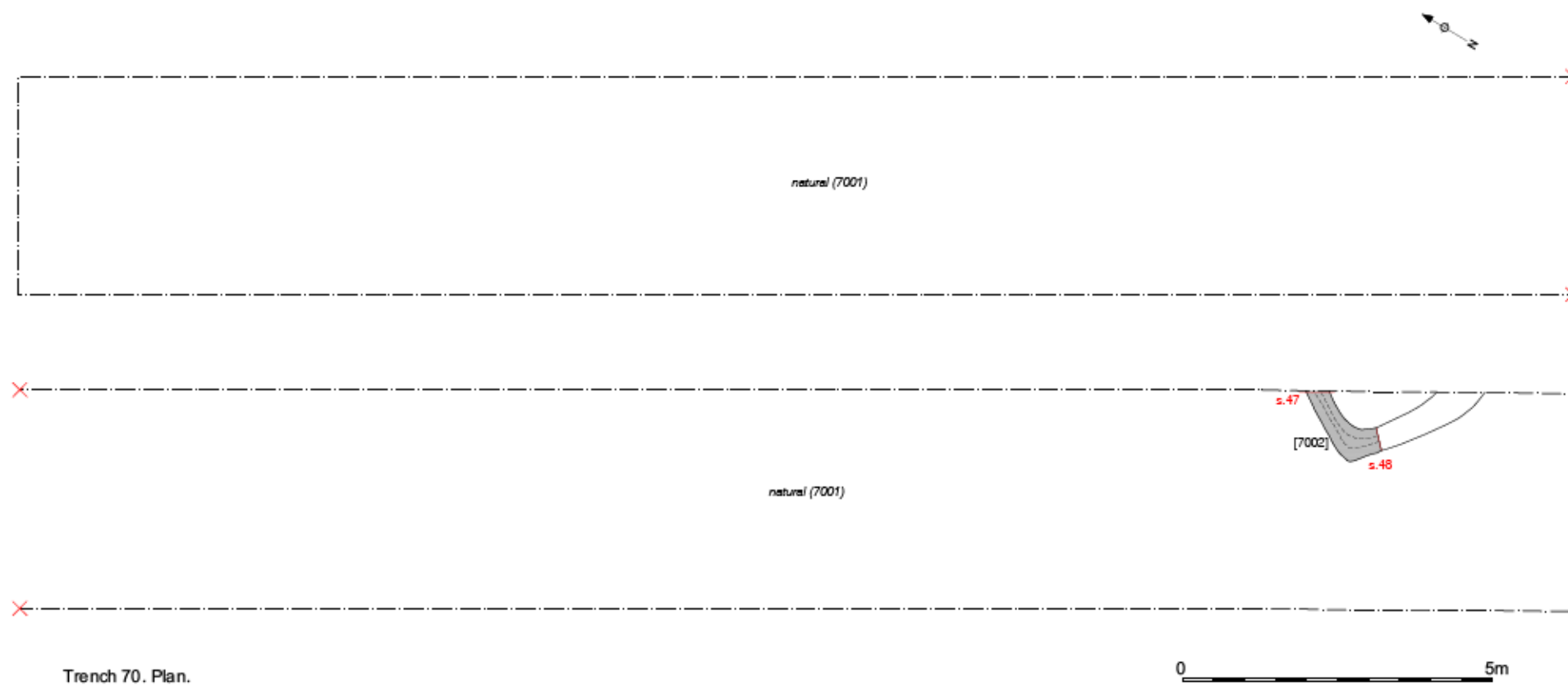


Figure 20: Area 12. Trench 70; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:

Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
- Height mAOD
- Section location
- Excavated slot
- Limit of excavation

REPORT No:

CP11190

FIGURE:

21

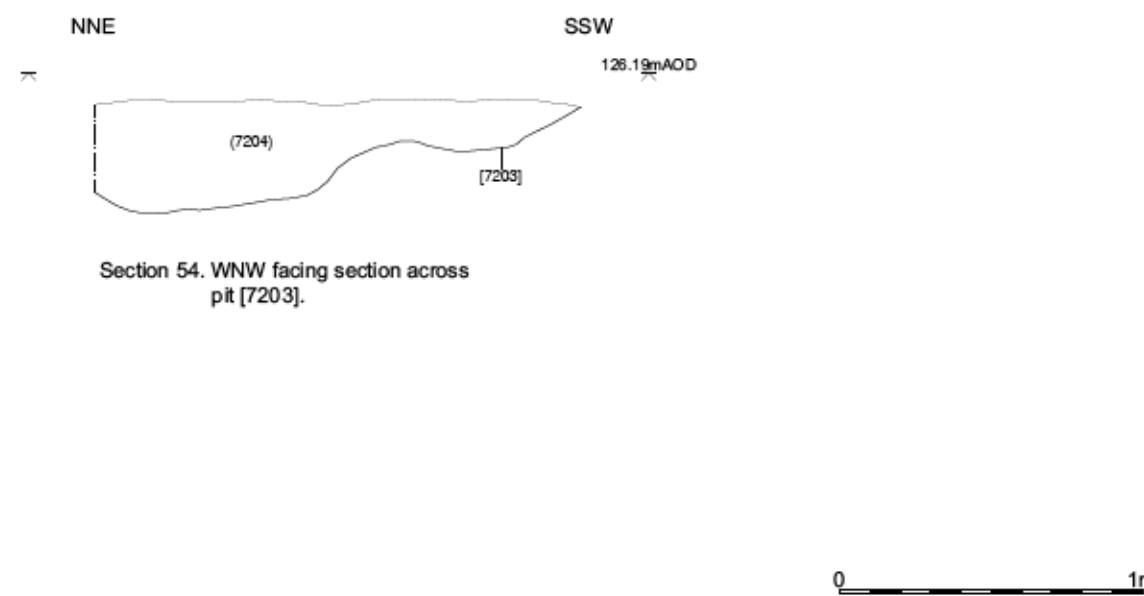
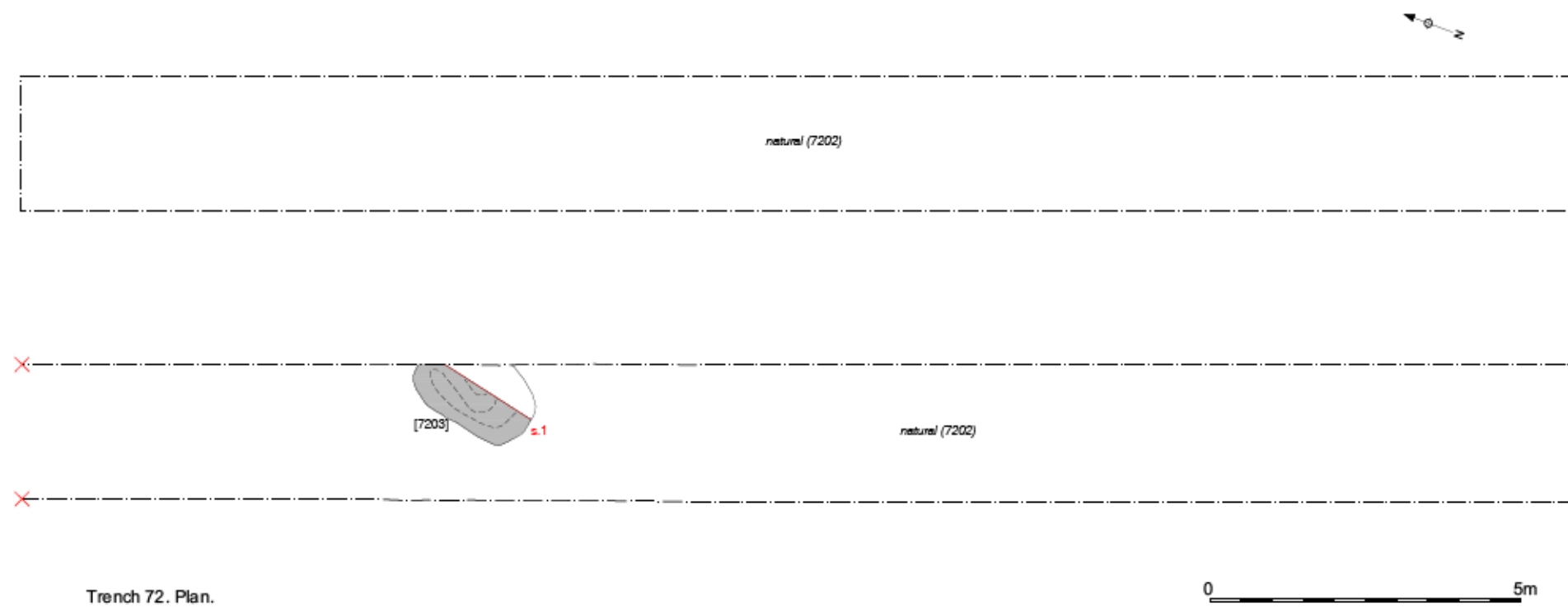


Figure 21: Area 12. Trench 72; plan and section.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

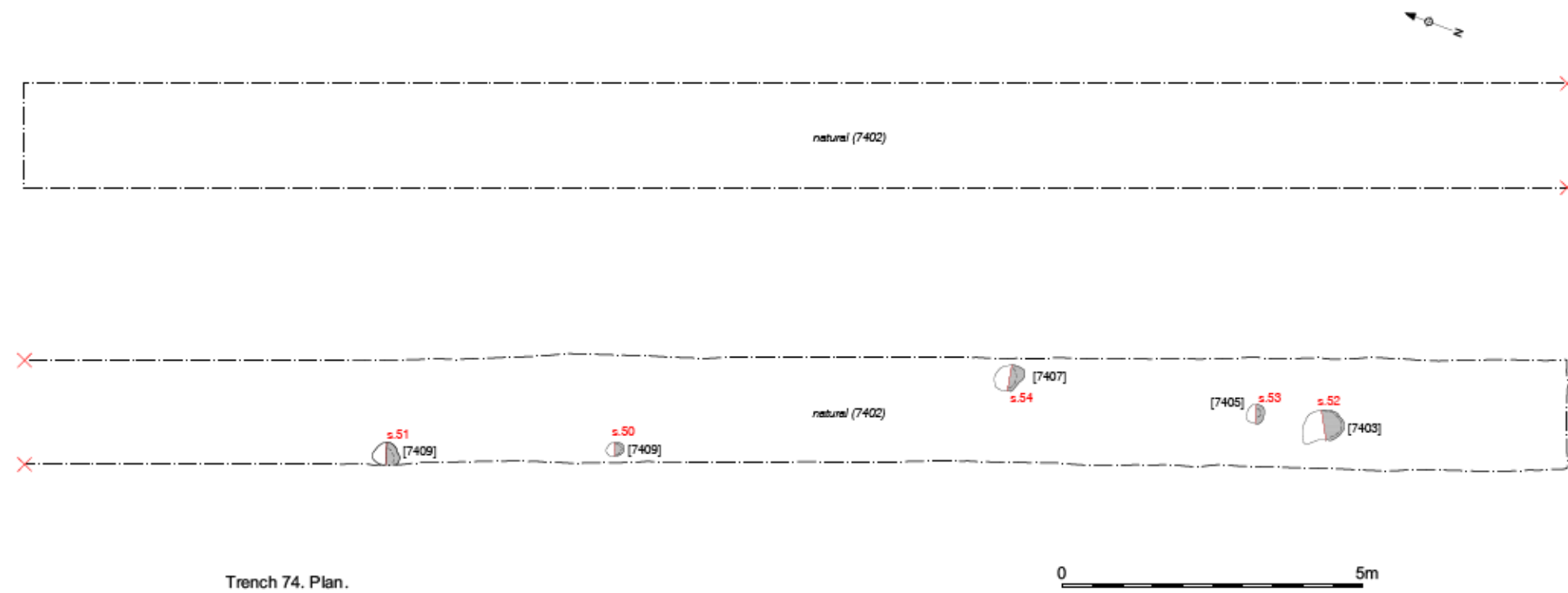
SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

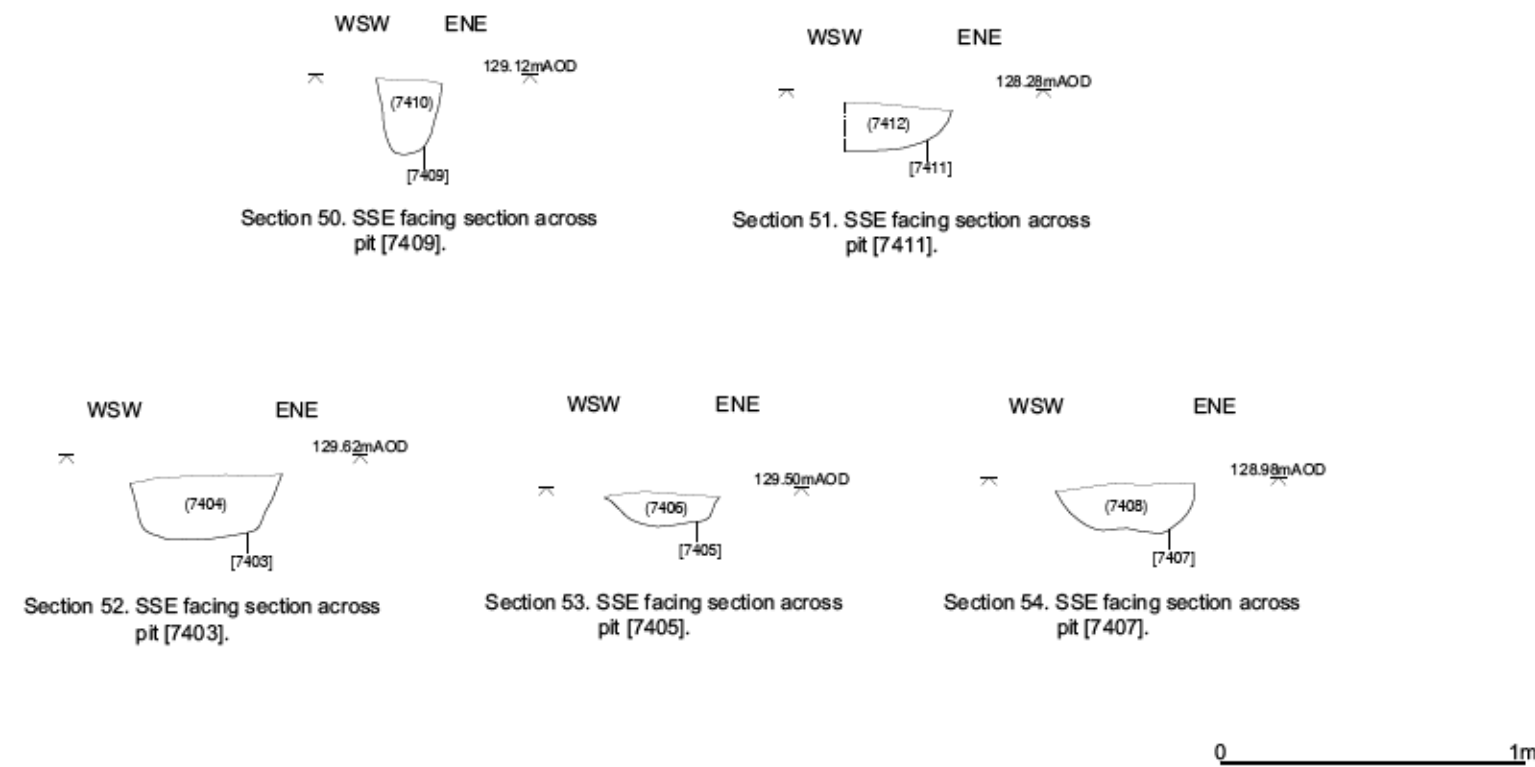
DATE: December 2014

KEY:

- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation



Trench 74. Plan.



REPORT No:

CP11190

FIGURE:

22

Figure 22: Area 12. Trench 74; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

23

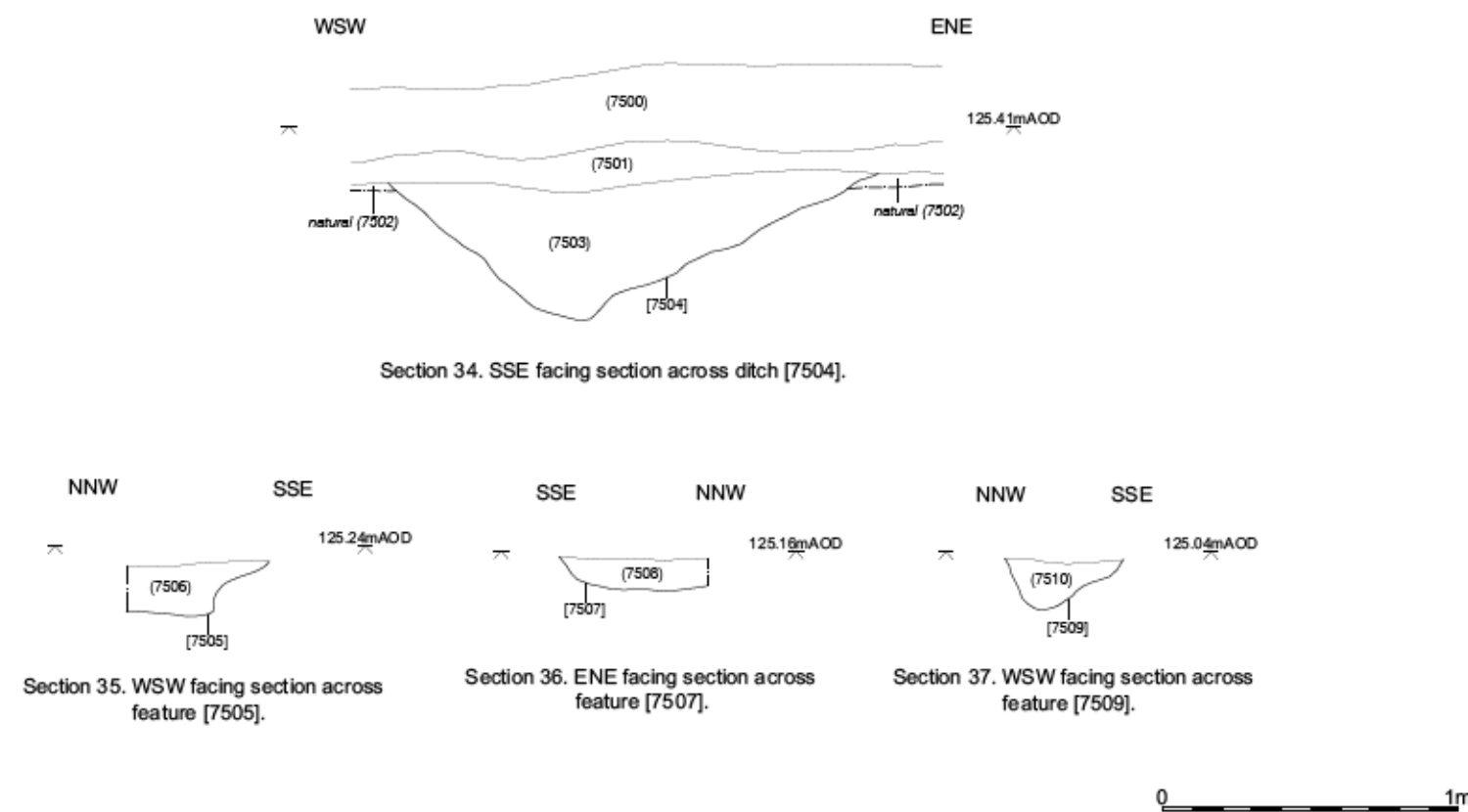
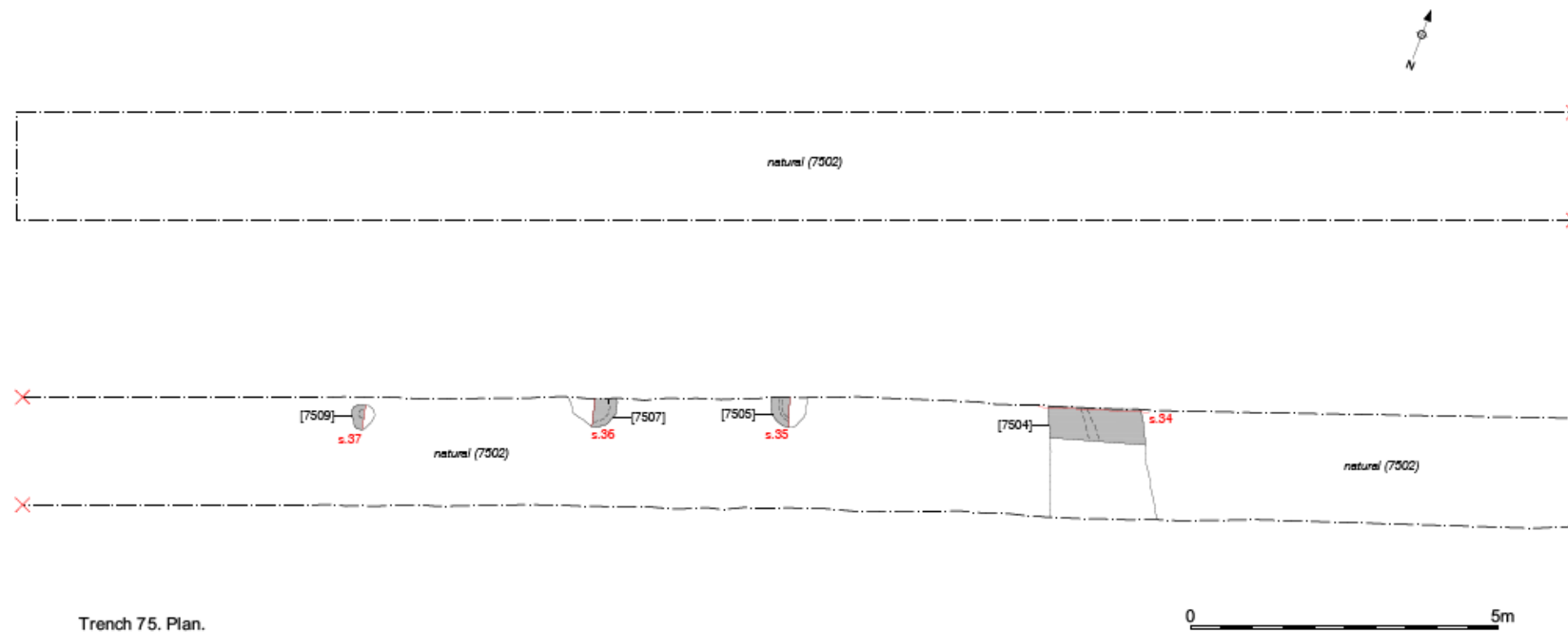


Figure 23: Area 12. Trench 75; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:

Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

- (101) Context number
- Height mAOD
- Section location
- Excavated slot
- Limit of excavation

REPORT No:

CP11190

FIGURE:

24

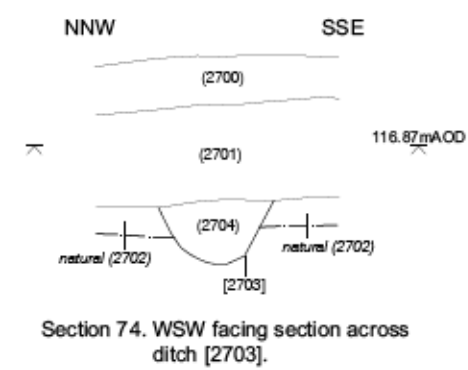


Figure 24: Area 14. Trench 27; plan and section.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Section 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

(101)	Context number
	Height mAOd
	Section location
	Excavated slot
	Limit of excavation

REPORT No:

CP11190

FIGURE:

25

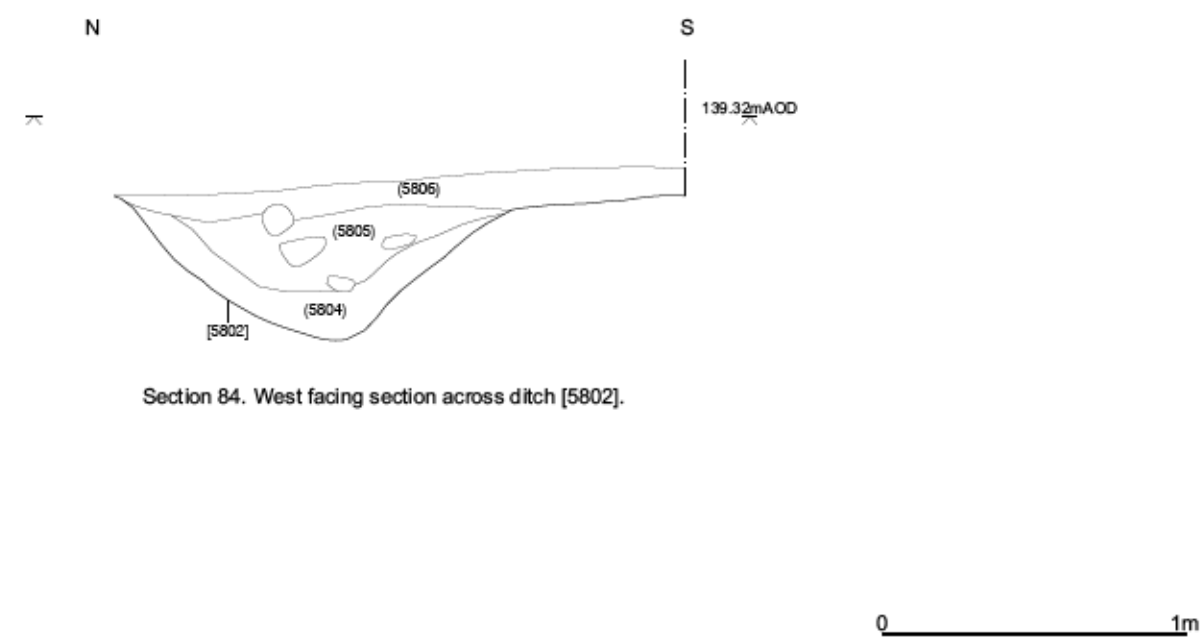
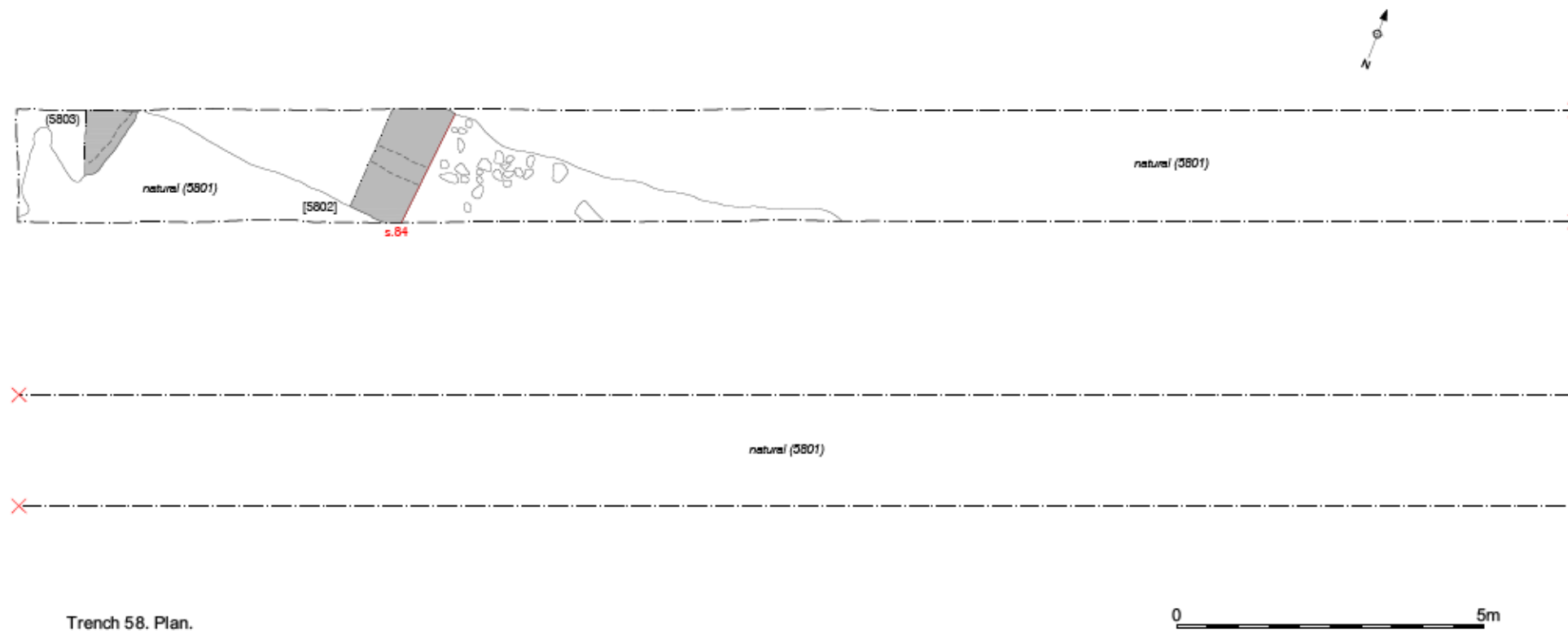


Figure 25: Area 16. Trench 58; plan and section.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

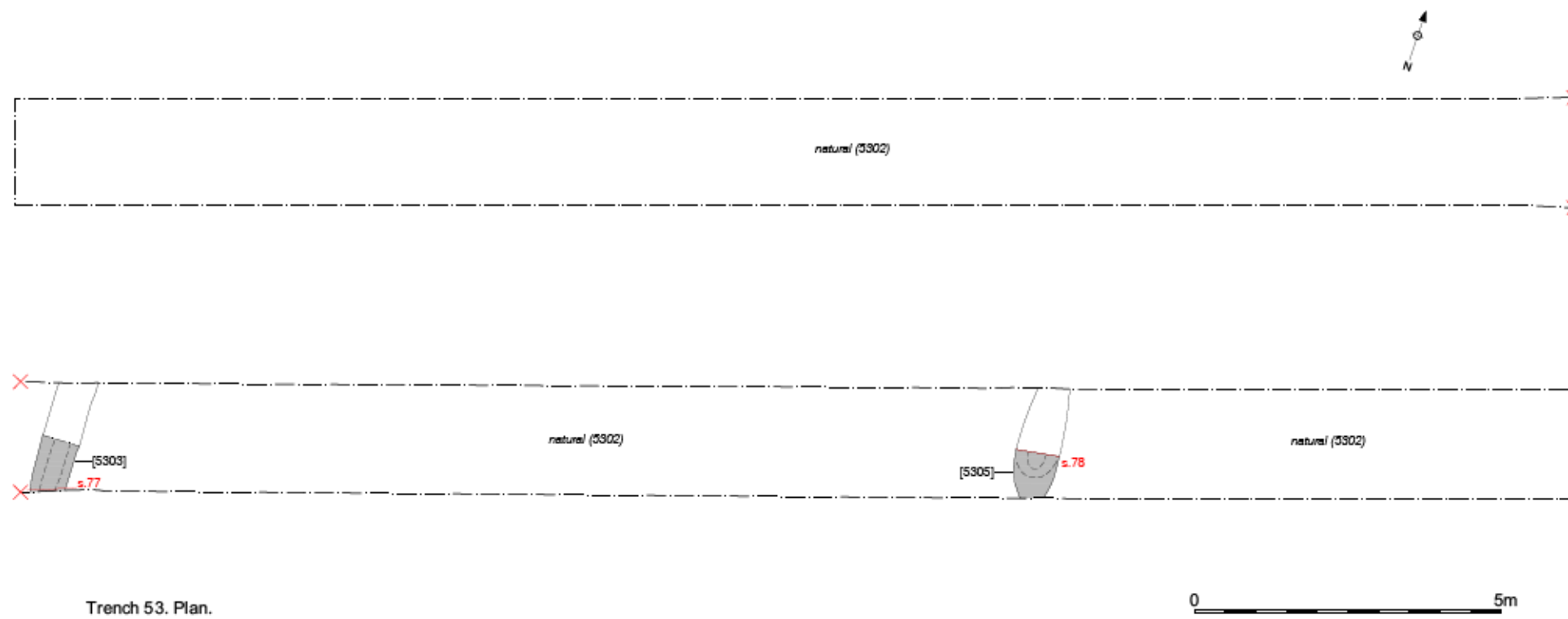
- (101) Context number
-  Height mAOB
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

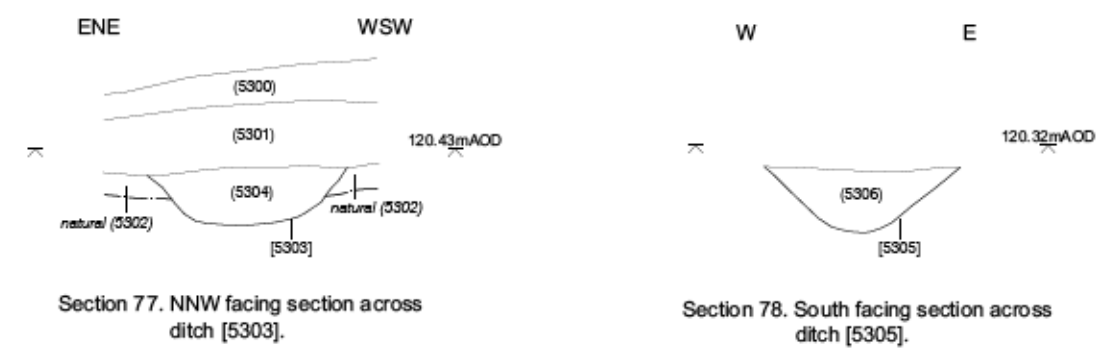
CP11190

FIGURE:

26



Trench 53. Plan.



Section 77. NNW facing section across
ditch [5303].

Section 78. South facing section across
ditch [5305].

Figure 26: Area 17. Trench 53; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:





Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

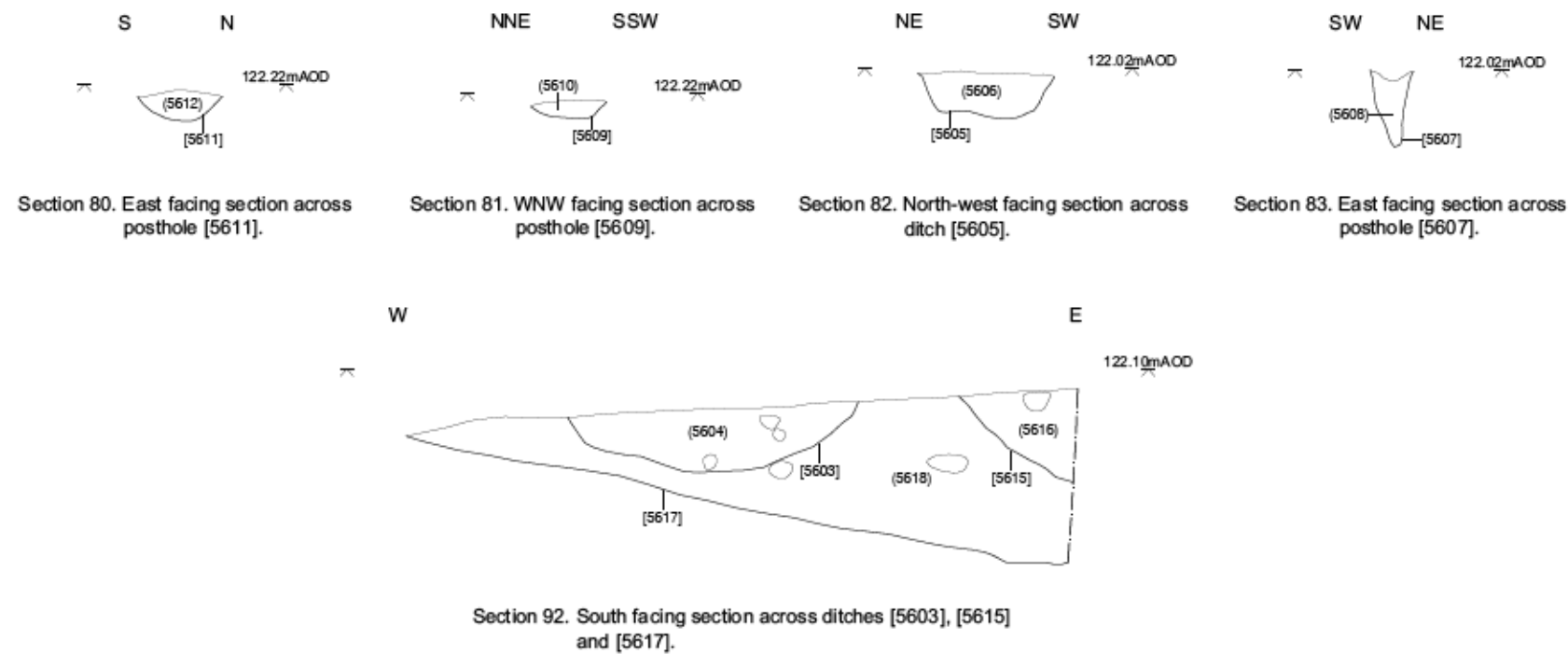
- (101) Context number
-  Height mAOD
-  Section location
-  Excavated slot
-  Limit of excavation

REPORT No:

CP11190

FIGURE:

27



0 1m

Figure 27: Area 17. Trench 56; plan and sections.

PROJECT:

Land at Birney Hill,
Ponteland, Northumberland

CLIENT:

Lugano Group Ltd

SCALE: Plan 1:100 at A3

DRAWN BY: AB

DATE: December 2014

KEY:

(101) Context number
 Limit of excavation

REPORT No:

CP11190

FIGURE:

28

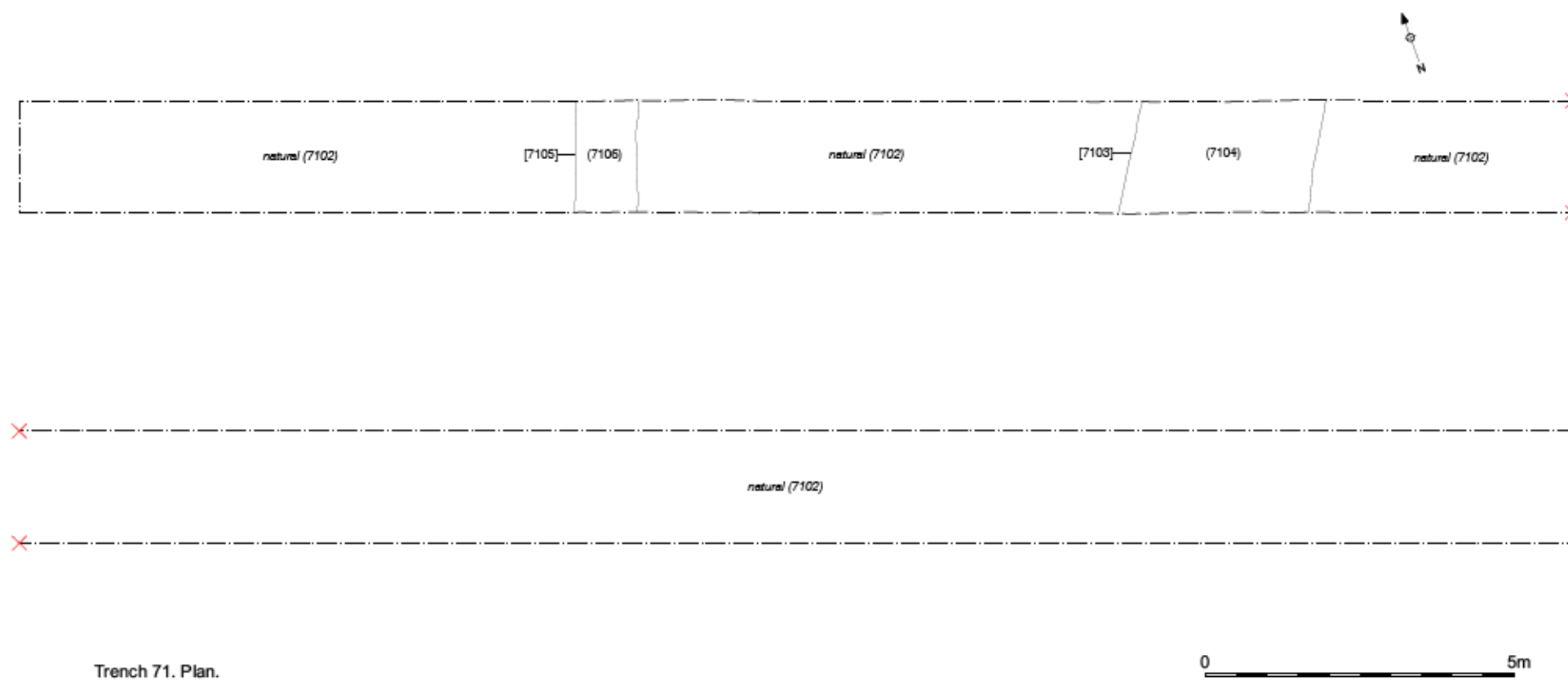
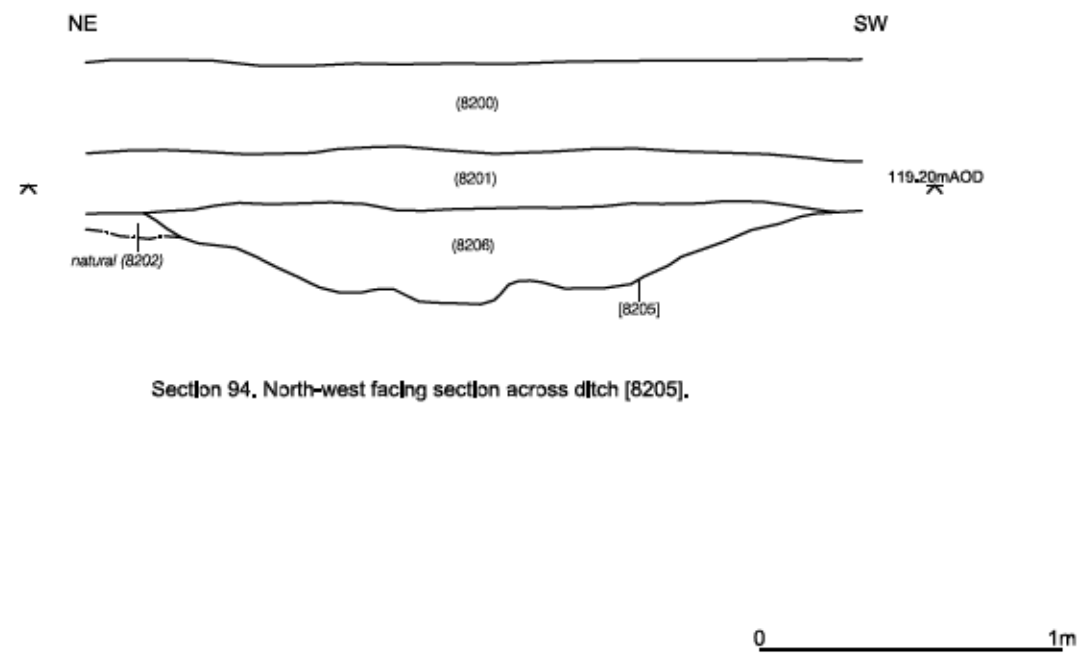
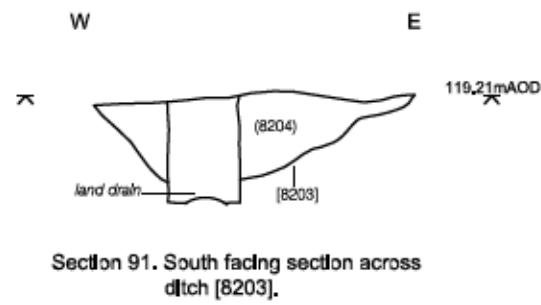
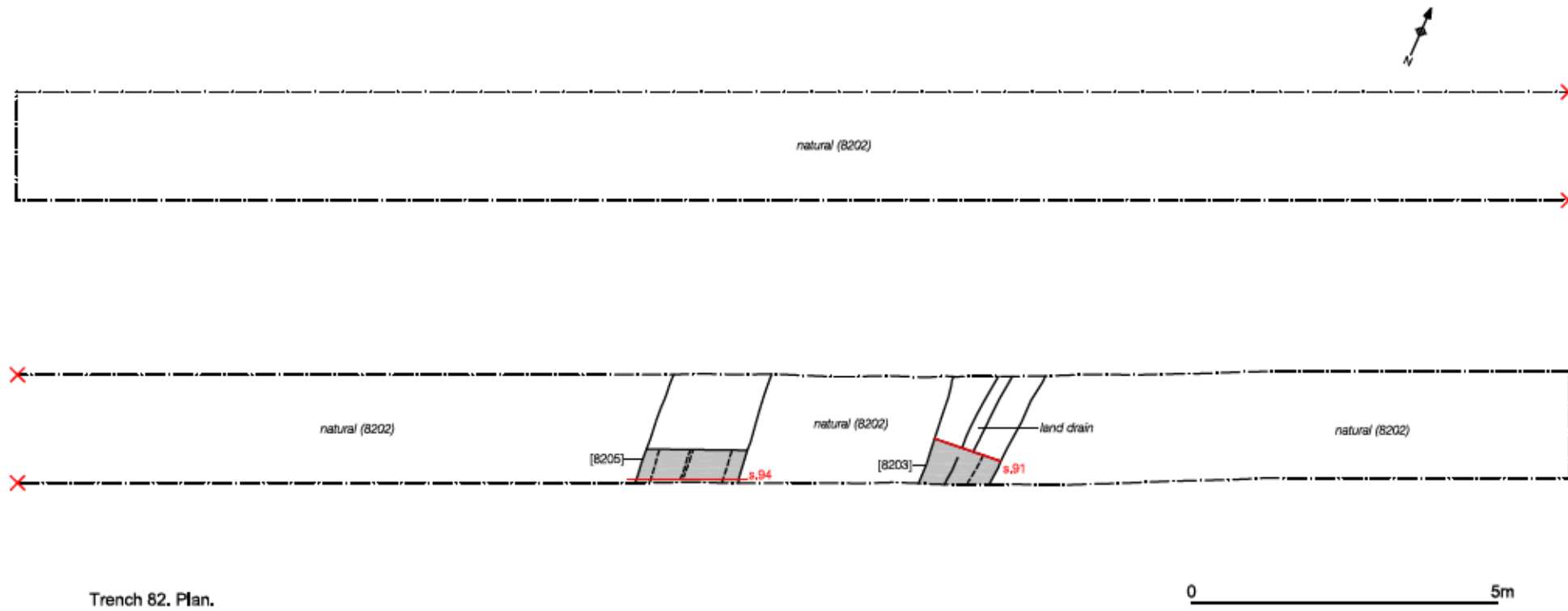


Figure 28: Area 17. Trench 71; plan.

PROJECT:
Land at Birney Hill,
Ponteland, Northumberland

CLIENT:
Lugano Group Ltd

SCALE: Plan 1:100/Sections 1:25 at A3
DRAWN BY: AB
DATE: December 2014



KEY:

- (101) Context number
- / Height mAOD
- Section location
- Excavated slot
- Limit of excavation

REPORT No:
CP11190

FIGURE:
29

Figure 29: Area 17. Trench 82; plan and sections.