

Site & Landscape Survey

**Northern Transmission Reinforcement** High Pressure Natural Gas Pipeline, Near Inverurie, Aberdeenshire

**Archaeological Works** 

Report No. 1948







## **CFA ARCHAEOLOGY LTD**

The Old Engine House Eskmills Business Park Musselburgh East Lothian EH21 7PQ

Tel: 0131 273 4380 Fax: 0131 273 4381

email: info@cfa-archaeology.co.uk web: www.cfa-archaeology.co.uk

Author	Magnus Kirby MA AIfA
Illustrator	Leeanne Whitelaw BSc MAAIS
Editor	Melanie Johnson MA PhD FSA Scot MIfA
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#### 1. INTRODUCTION

#### 1.1 General

This report presents the results of an archaeological watching brief and subsequent mitigation measures undertaken between April and June 2011 by CFA Archaeology Ltd (CFA) during the construction of a high pressure natural gas pipeline running from Burnhervie to Old Rayne (NJ 71958 21488 to NJ 67158 27767) (Fig. 1 and Fig. 2A – Fig. 2F), near Inverurie, Aberdeenshire.

A WSI was prepared by CFA Archaeology Ltd in response to a Brief prepared by Advance Safety on behalf of Scotland Gas Networks (SGN) (2011) and approved by SGN's Archaeological Adviser and the Aberdeenshire Council Archaeology Service (ACAS). The requirements of the Brief were adhered to throughout all works.

The watching brief monitored the stripping of topsoil and subsoil along the working width of the pipeline.

The construction work was commissioned by Scotland Gas Networks (SGN) and the main construction contractors were Land and Marine Project Engineering (LMPE).

Key site personnel for SGN were John Davie (Project Development Coordinator) and Joe Taunton (Environmental Advisor). Key site personnel for LMPE were Adrian Heath (Construction Manager), Alan Hope (Civil Foreman), and Murray Sutherland (Agricultural Liaison Officer). SGN's Archaeological Adviser was Claire Lingard of Network Archaeology Ltd. The key representative for ACAS was curator Bruce Mann. The watching brief was undertaken by Magnus Kirby and Stuart Mitchell.

## 1.2 Background

The route of the pipeline (Fig. 2A – Fig. 2F) ran through the Garioch area of Aberdeenshire to the west of Inverurie within a landscape dominated by the Mither Tap of Bennachie and its Iron Age hill fort. It passed through rolling agricultural land rising from c. 90m AOD at Old Rayne to c. 200m AOD immediately to the west of Pittodrie House. The land along the length of the route was predominantly arable, but included a section running through the grounds of Pittodrie House, which is currently used as a hotel

A Route Corridor Investigation Study and a Desk Based Assessment (DBA) was carried out in advance of construction (Capita Symonds 2010, Network Archaeology 2010a, Groundwork Archaeology 2009a, 2010). This was supplemented by a three stage field survey consisting of field reconnaissance survey, field walking survey and a geophysical survey, and a mapping survey (Network Archaeology 2010b, 2010c, Groundwork Archaeology 2009b). This report should be read in conjunction with these works. The results of these surveys were available to CFA staff and enabled potential and known sites to be located and targeted during topsoil stripping.

Information obtained from the DBA on the geology and soils along the route of the pipeline states that the southern end is underlain by Neoproterozoic (Precambrian) sandstone, schists and slates of the Argyll group, while the northern part the solid

geology consists of Ordovician and Silurian gabbro and other plutonic rocks. The subsoil deposits largely consist of sandy Till, but there are also patches of alluvium and, to a lesser extent, river terrace gravels.

The pipeline project consisted of the following two elements;

- Burnhervie to Broadsea: 1.6km of 450mm steel pipe (including Broadsea Above Ground Installation (AGI) works)
- Broadsea to Old Rayne: 8.3km of 300mm steel pipe

Construction was carried out within a 25m 'working width' for the Broadsea to Old Rayne stretch of the pipeline and 24m for the Burnhervie to Broadsea stretch. The width was reduced at all hedgerows and increased at crossing points of roads and watercourses, and at other areas of constraint where necessary.

#### 1.2. Scope of Works

The work required included:

- A watching brief during construction on topsoil removal including procedures for reporting and mitigation following discovery of any archaeological remains;
- Preparation of a client report and publication as appropriate.

## 1.3 Objectives

The objectives of the watching brief were:

- To identify, appropriately manage and fully mitigate impacts on archaeological deposits affected by construction of the Northern Transmission Reinforcement Gas Pipeline;
- To consider, in all cases of archaeological discovery, whether preservation *in situ* is desirable and achievable as the foremost response;
- To implement, where preservation *in situ* is not desirable or achievable, an appropriate strategy for recording of threatened remains so that their archaeological significance is not diminished;
- To develop, where possible, knowledge and understanding of the historic landscape;
- To determine and understand the nature, function and character of any archaeological remains in their cultural and environmental setting;
- To obtain a chronological sequence for the human activity along the pipeline and to place it within its regional context;
- To establish the environmental context of archaeological deposits and features;
- To fully interpret the findings in a post-excavation programme leading to appropriate publication and dissemination of results;
- To ensure the long-term survival of the information through deposition of a project archive.

#### 2. WORKING METHODS

#### 2.1 General

CFA Archaeology Ltd follows the Institute for Archaeologists' Code of Conduct, Standards and Guidance for Archaeological Fieldwork.

### 2.2 Construction Methodology – Watching Brief

The fenced off area of the pipe route was 25m wide, with the stripped area having a width of 18.5m with the unexcavated area being used for topsoil storage. This width narrowed and widened at road and river crossings and at pipe storage areas.

Topsoil stripping was generally carried out using a combination of backhoe mechanical excavators equipped with toothless ditching buckets and bulldozers. The backhoe excavators carried out the majority of the stripping with the bulldozers being used to smooth stripped areas and move spoil.

During the watching brief all plant was under the direct control of LMPE personnel unless archaeologically significant deposits were encountered.

#### 2.3 Construction Methodology – Health and Safety Constraints

SGN and LMPE health and safety requirements and procedures were followed throughout the construction process by all members of CFA staff. These did not have a negative impact on the identification and recording of archaeological features.

### 2.4 Archaeological Methodology

The entirety of the pipeline's route was under archaeological supervision during all groundworks, unless an area had already been stripped down to natural subsoil under archaeological supervision and therefore deemed to be archaeologically sterile. The excavation of the pipe-trench was not monitored as the pipeline was deemed to archaeologically sterile following topsoil stripping operations and the subsequent mitigation measures on the features identified.

The watching brief was undertaken by two archaeologists who used separate numbering systems for contexts and kept distinct records for photographs, drawings and samples. These are reproduced in the appendices to this report.

When archaeological remains were encountered they were either recorded immediately or cordoned off from construction traffic and recorded at a later date.

Recording took place using *pro-forma* recording sheets with each context encountered being assigned a unique identifying number.

All archaeologically significant deposits were photographed using digital, colour-slide and black and white formats.

Plan and section drawings were made, at a scale of 1:10, 1:20, 1:50 or 1:100, of all significant archaeological deposits.

Samples were taken of all sealed deposits that were deemed to be of archaeological significance. 10 litre samples were routinely taken unless the deposit was smaller than 10 litres.

#### 3. ARCHAEOLOGICAL RESULTS

#### 3.1 General

Numbers in bold and parentheses in the following section refer to contexts, a list of which is contained in Appendix 1.

The SGN plot numbering system has been followed. Significant features or concentrations of features identified during the watching brief have been allocated site numbers (Site 1 – Site 8), whereas isolated features are just identified by their individual context numbers.

Visibility of the natural subsoil following topsoil stripping was moderate to good on the Burnhervie to Broadsea pipeline, and on Section 0 and Section 1 of the Broadsea to Old Rayne pipeline, but was moderate to poor on Section 2 and Section 3 of the Broadsea to Old Rayne pipeline. The poor visibility on the aforementioned sections was caused by the need to avoid the mixing of topsoil and subsoil deposits for agricultural purposes. Better visibility was achieved within areas where there was a clear distinction between topsoil and subsoil deposits whereas poorer visibility occurred where the boundaries between the two soil types were merged.

## 3.2 Burnhervie to Broadsea 450mm Gas Pipeline

#### 3.2.1 Plot 1/06

Plot 1/06 contained two small shallow pits [002 and 004] located between NGR NJ 70743 21176 and NJ 70745 21175 (Site 1) (Fig. 3) and a cluster of three larger pits [006, 008 and 014] (Site 2) (Fig. 5 and Fig. 18) located between NGR NJ 70619 21203 and 70625 21214. Details of these sites are given below.

#### Site 1

Site 1 was situated on undulating ground to the east of Broadsea AGI at an altitude of c. 130m AOD within an area of yellowish-brown sandy gravel natural.

Pit [002] was sub-oval in plan, with sloping sides and a concave base (Fig. 4). It measured 0.84m NW to SE by 0.65m NE by SW and had been cut into the natural subsoil (001) to a depth of 0.19m. The fill of this pit consisted of grey-brown sandy-silt (003). A worked lithic was recovered from this pit.

Pit [004] was sub-oval in plan, with gently sloping sides and an irregular base (Fig. 4). It measured 0.7m east to west by 0.55m north by south and had been cut into the

natural subsoil (001) to a depth of 0.05m. The fill of this pit consisted of grey-brown sandy-silt (005).

#### Site 2

Site 2 was situated on undulating ground immediately to the east of Broadsea AGI at an altitude of c. 130m AOD within an area of yellowish-brown sandy gravel natural.

Pit [006] was sub-circular in plan with a diameter of c. 2.5m. It had steeply sloping sides and an irregular base, which was 0.2m deep at the north-western side, rose up to 0.08m in the centre and plunged down to a maximum depth of 0.35m at the south-eastern side (Fig. 1). The fill (007) of this pit consisted of a charcoal-rich grey-brown sandy-silt. Sherds of prehistoric pottery were recovered from this pit.

Pit [008] was linear in plan measuring 5.8m east to west by a maximum of 2.2m north to south, and had been cut into the natural subsoil (001) to a depth of 0.5m. This feature had sloping sides and an irregular base. Considerable rabbit damage had occurred at the western end of this feature, so it may have originally been larger than the recorded dimensions. The primary fills of this feature consisted of orangey-brown sandy-silt (009), which had built up at the centre of the feature, and orange-brown silty-sand (011), which had built up at the eastern and western ends (Fig. 6). There was no stratigraphical relationship between these two contexts. These deposits were overlain by mid-brown sandy-silt (012). Deposit (009) was also overlain by a lens of dark reddish-brown sandy silt (010) within (012). Small lenses of charcoal-rich bluish-brown sandy silt (013) were identified overlying deposit (012). Numerous large stones were present throughout the deposits within this feature.

Pit [014] was only partially uncovered, extending outwith the working width of the pipeline to the east (Fig. 5). It measured 3.25m north to south by >2.5m east to west, had been cut into the natural subsoil (001) to a depth of 0.5m, and had sloping sides with a slightly uneven base (Fig. 6). The main basal fill (015) of this pit consisted of greyish-brown sandy-silt with charcoal inclusions. A lens of material (016), which consisted of greyish-orange silty-sand, was present within (015). Deposits (015/016) were overlain by a deposit of dark bluish-brown silt (017) and the upper fill (018) overlying (017) consisted greyish-brown sandy silt. Large stones measuring up to 0.45m in length were present throughout these deposits. Sherds of prehistoric pottery were recovered from fill (015).

## 3.3 Broadsea to Old Rayne 300mm Gas Pipeline

#### 3.3.1 Plot 0/02

Plot 0/02 contained an isolated pit [016] located between NGR NJ 70561 21311 and NJ 70562 21308. The pit measured 2.5m east to west by 2.25m north to south and had been cut into the natural subsoil to a depth of 0.6m. Large quantities of shattered rock within the fill (017) of this feature suggest that this is most likely to represent the remains of a large rock which had been blasted in recent times for the purpose of field clearance. All the finds from this pit were post-medieval in date.

This plot also contained a concentration of pits (Site 3) (Fig. 7) located between NGR NJ 70565 21244 and NJ 70567 21235.

#### Site 3

Site 3 was situated on undulating ground immediately to the north of Broadsea AGI at an altitude of c. 130m AOD within an area of yellowish-brown sandy gravel natural. It consisted of seven pits [002, 004, 006, 008, 010, 012 and 014] varying from circular to sub-oval in plan (Fig. 7). These pits measured between 1.4m and 0.2m across and between 0.32m and 0.14m deep (Fig. 8).

Pits [012] and [014] had almost vertical sides and a flat base suggesting that they may have been post-holes, but there was no evidence of either post pipes or packing stones. The pits formed two roughly parallel lines situated c. 2.5m apart. The south-easternmost of the two lines consisted of pits 002, 004, 010 and 014, and measured c. 7m in length, while the north-westernmost line consisted of pits 006, 008 and 012, and measured c. 5m in length. Three (002, 004 and 010) of the four pits in the south-easternmost line sat directly opposite the three pits in the north westernmost line, possibly indicating a rectilinear structure measuring 5m by 2.5m. Fragments of calcified bone were recovered from pit [004] and pit [012], but there were no datable artefacts.

Pit [002] was sub-oval in plan measuring 1.4m east to west by 0.8m north to south. It had sloping sides and an uneven base, and had been cut into the natural subsoil to a depth of 0.17m. The fill (003) of this feature consisted of light grey-brown silty-sand. It contained moderate amounts of stone measuring up to 0.35m across.

Pit [004] was sub-circular in plan with a diameter of c. 0.55m. It had steeply sloping sides and an uneven base, and had been cut into the natural subsoil to a depth of 0.2m. The fill (005) of this feature consisted of loose grey-black silt with frequent charcoal inclusions containing a single sub-rounded granite stone measuring 0.2m by 0.15m.

Pit [006] was sub-circular in plan with a diameter of 0.65m. It had steeply sloping sides and a flat base and had been cut into the natural subsoil to a depth of 0.32m. The fill (007) of this feature consisted of dark-brown sandy-silt.

Pit [008] was sub-oval in plan measuring 0.8m NE to SW by 0.5m NW to SE. It had sloping sides and a flat base, and had been cut into the subsoil to a depth of 0.31m. The fill (009) of this feature consisted of greyish-brown sandy-silt with small subangular stones.

Pit [010] was sub-circular in plan measuring c. 0.8m in diameter. It had sloping sides and a slightly concave base, and had been cut into the natural subsoil to a depth of 0.24m. The fill (011) of this feature consisted of greyish-brown silty-sand.

Pit [012] was sub-circular in plan measuring 0.26m in diameter. It had steeply sloping sides and a flat base, and had been cut into the natural subsoil to a depth of 0.15m. The fill (013) of this feature consisted of dark orangey-brown sandy-silt with occasional flecks of charcoal.

Pit [014] was sub-circular in plan measuring 0.22m in diameter. It had steeply sloping sides and a flat base, and had been cut into the natural subsoil to a depth of 0.15m. The fill (015) of this feature consisted of greyish-brown sandy-silt.

#### 3.3.2 Plot 1/02

Plot 1/02 contained an isolated pit [005] at NGR NJ 70447 22520 and pit [006] at NJ 70484 22746), along with some traces of north-south aligned rig-and-furrow cultivation remains [008] at NJ 70458 22734. It also contained a cluster of three pits [010, 013 and 017] (Site 4) (Fig. 9 and Fig. 19) at NGR NJ 70500 22845.

Pit [005] was a shallow, elongated, irregular pit. It measured 3.48m long by up to 0.7m across and up to 0.2m deep. It was aligned roughly north-west to south-east. The upper fill (003) was mid-dark brown silt which overlay a basal fill (004) of dark brown peat.

Pit [006] was roughly oval in plan with steeply sloping sides. It measured 1.04m north to south by 0.80m east to west and had a depth of 0.33m. The fill (007) was a loose mid-brown silt.

#### Site 4

Site 4 was situated on undulating ground to the east of Newbigging farm, next to the Linn Burn at an altitude of c. 130m AOD within an area of orange-brown and yellowish-brown sandy-clay natural.

Pit [010] was elliptical in plan with an irregular base, a gently sloping southern profile, and a steeply sloping northern profile. It measured 3m east to west by 1m north to south and had a depth of 0.5m. The main fill (011) of this feature consisted of dark brown peat/proto-peat containing small fragments of tree bark, and the upper fill (012) consisted of grey-brown silt of a similar colour and consistency as the topsoil (001). There were no finds from this feature.

Pit [013] was also slightly elliptical in plan, but the ellipse was much less pronounced than Pit [010]. This pit measured 2.5m north to south by 0.75m east to west by 0.2m deep, and had sloping sides and a flat base. The fill (014) of this pit was very similar to that of Pit [010] and consisted of dark brown peat/proto-peat containing small fragments of tree bark. Towards the southern end, the pit had been cut by a rubble field drain running from south-east to north-west. There were no finds from this feature.

Pit [017] was only partially uncovered, extending outwith the working width of the pipeline to the west. It measured 1.3m north to south by >0.8m east to west, had been cut into the natural subsoil to a depth of 0.3m, and had sloping sides with an uneven stony base. The fill (018) of this feature consisted of stony dark grey-brown silt. At the southern edge, this pit had been cut by a rubble field drain running from south-east to north-west. There were no finds from this feature.

#### 3.3.3 Plot 1/06

Plot 1/06 contained a concentration of features located between NGR NJ 70043 23448 and NJ 70077 23412 (Site 5) (Fig. 10 and Fig. 22), and a further scatter of features located between NGR NJ 70201 23319 and NJ 70129 23308 (Site 6) (Fig. 12). Details of Site 5 and Site 6 are contained below.

#### Site 5

Site 5 was situated on gently sloping ground between Newbigging Farm and Pittodrie House Hotel at an altitude of c. 140m AOD within an area of mottled yellowish-brown sandy-clay natural. It consisted of twenty pits [005, 032, 034, 036, 044, 045, 048, 050, 056, 061, 063, 063A, 065, 067, 069, 071, 074, 076, 083 and 087] and three linear features [030, 059 and 079]. The pits varied in size between 0.5m diameter (pit [034]) and 5.5m by 2.5m (pit [048]), and had depths of between 0.1m and 0.4m. Sherds of prehistoric pottery were recovered from contexts (031), (049), (057) and (060), lithics were recovered from (006), (046), (049), (062) and (066), and a saddle quern was recovered from (066).

The features of particular note were Pit [065], Pit [067], Pit [056], Pit [076], Pit [005], Linear feature [059] and Linear feature [030]. Details of these features are contained below.

It was not possible to establish the original size and shape of Pit [065] because the northern end of it had been removed by the insertion of Pit [056]. The remainder of the pit measured 1.25m from SW to NE by > 1.7m from SE to NW, had been cut into the natural subsoil (002) to a depth of 0.25m, and had gently sloping sides and a rather irregular base (Fig. 11). The fill (066) of the pit consisted of mid-brown silty-sand containing frequent large stones. Towards the southern end of this pit, a saddle quern measuring c. 0.5m by 0.5m had been placed on the base in an inverted position (Fig. 20). Details of this artefact are contained within Section 3.4.

Pit [056], which had been cut across the north western end of Pit [065], was subcircular in plan with gently sloping sides and a rather irregular base. It measured 1.55m NW to SE by 1.4m NE to SW and had been cut into the natural subsoil/backfill of pit [065] to a depth of 0.15m. The lower fill (058) of this pit consisted of light-grey sand and the upper fill (057) consisted of grey-brown silty-sand. A prehistoric pottery rim was recovered from deposit (057).

Pit [067], which had been cut through the fill (066) of Pit [065] into the natural subsoil beneath, was roughly circular in plan. It had steeply sloping sides and a flat base, measured c. 0.15m in diameter, and had an overall depth of 0.4m. The fill (068) of this feature consisted of soft brown silt.

Pit [076] was roughly oval in plan with steeply sloping sides and a flat base. It measured 1.8m SW to NE by 1m NW to SE and had been cut into the subsoil to a depth of 0.17m. The base of this pit had been lined with cobbles, which had been pressed into the underlying subsoil (Fig. 11 and Fig. 21). Immediately overlying the cobbles were deposits of grey silty-sand (077 and 086). Deposits 077 and 086 were separated from each other by deposit 082, which might represent the fill of a partial

re-cut (076A) of this feature. Deposit 077 was partially overlaid by deposit 078 and partially overlaid by deposit 082, whereas deposit 086 was partially overlaid by deposit 082. The relationship between pit 076 and linear 079 was not conclusively established, but the fill (080) of the linear feature was very similar in nature to the fill (082) of possible re-cut 076A suggesting that the linear feature may have been contemporary with the re-cut.

Linear feature [059] was aligned east to west, measured 3m long by 0.35m wide, and had been cut into the natural subsoil to a depth of 0.1m. The fill (060) of this feature consisted of mid-brown silt containing flecks of charcoal. Sherds of prehistoric pottery were recovered from the upper surface of (060).

Pit [005] (Fig. 11) had been cut into the base of linear feature [059] at its eastern end. This feature was roughly circular in plan with steeply sloping sides and a flat base. It measured c. 0.4m in diameter and had been cut into the natural subsoil to a depth of 0.25m. The fill (006) of this feature consisted of mid-brown silt with frequent lumps of charcoal. No direct stratigraphical relationship was established between [005] and [059], but the location of the pit at the end of the linear feature suggests that they are likely to have been contemporary. Pit [005] lay 2m to the north-west of pit [067] and may have been part of the same structure. A single lithic was recovered from the fill of the pit.

Linear feature [030] curved slightly from north-west to south-east, measuring 10.5m in length. Six sections recorded across it showed that it measured between 0.55m and 0.85m in width by 0.05m to 0.11m in depth and that it had gently sloping sides and a fairly flat base (Fig. 11). The fill (031) of this feature consisted of orangey-brown silty-sand. The very shallow depth recorded for this feature suggests that the area has been very heavily truncated. Sherds of prehistoric pottery and fragments of possible slag were recovered from deposit (031).

#### Site 6

Site 6 was situated on gently sloping ground between Newbigging Farm and Pittodrie House Hotel at an altitude of c. 150m AOD within an area of mottled yellowish-brown sandy-clay natural.

There were seven pits [007, 009, 011, 016, 020, 022 and 028] and two linear features [003 and 025] (Fig. 12). The pits measured from 0.4m by 0.5m (Pit [022]) up to c. 2.8m by 0.8m (Pit [016]) and had depths of between 0.05m [007] and 0.23m [011]. Worked lithics were recovered from the fills of pits [011] and [028] (contexts (014) and (029).

Pit [007] was sub-oval in plan measuring 0.6m north to south by 0.4m east to west. It had gently sloping sides and a flat base, and had been cut into the natural subsoil to a depth of 0.05m. The fill (008) of this feature consisted of mid-brown clayey-silt.

Pit [009] was sub-oval in plan measuring 1.2m north to south by 0.75m east to west. It had sloping sides and an irregular base, and had been cut into the natural subsoil to a depth of 0.09m. The fill (010) of this feature consisted of mid-brown sandy-silt.

Pit [011] (Fig. 13) was sub-circular in plan measuring 1.2m in diameter by 0.23m deep with sloping sides and a slightly concave base (Fig. 12). The primary fill (012) of the pit consisted of grey clay, which was overlain by dark-brown clayey-silt (013). Deposit [013] was overlain by orangey-brown silty-sand (014). The uppermost fill (015) was medium-brown clayey-silt. Deposit 015 also partially underlay 013 possibly indicating that it partially pre-dated the aforementioned deposit, but that it had continued to build up after deposit 013/014 had been laid down.

Pit [016] was irregular in plan measuring 2.8m north to south by up to 0.8m east to west. It had irregular sloping sides and an irregular base, and had been cut into the natural subsoil to a maximum depth of 0.18m at the northern end of the feature. The primary fill (017) of this feature consisted of brownish-orange sandy-silt and occurred within the deepest section of the pit at the northern end. The northern part of deposit 017 was overlain by a grey-brown sandy-silt (018) and the southern part was overlain by dark-brown silt, which also directly overlay the natural subsoil throughout the rest of the pit.

Pit [020] was irregular in plan measuring 1.8m SW to NE by 1.3m SE to NW. It had gently sloping sides and a rather uneven base, and had been cut into the natural subsoil to a depth of 0.09m. The fill (021) of this feature consisted of dark-brown clayey silt.

Pit [022] was irregular in plan measuring 0.61m north to south by 0.41m east to west. It had irregular sloping sides and a flat base, and had been cut into the natural subsoil to a depth of 0.09m. The primary fill (023) of this feature consisted of orange sand (possibly re-deposited natural) and the upper fill (024) consisted of mid-brown sandy-silt.

Pit [028] (Fig. 13) was sub-oval in plan measuring c. 1.4m north to south by 1.1m east to west. It had gently sloping sides and an uneven slightly concave base and had been cut into the natural subsoil to a depth of 0.15m. The fill (029) consisted of brown sandy-silt containing a single lens of much darker charcoal.

The two linear features ran parallel to each other across the full working width of the spread in a south-west to north-east direction and were situated c. 16m apart. Ditch [003] measured 1.85m in width by 0.2m in depth and Ditch [025] measured up to 1.1m in width by 0.1m in depth. Both linear features had gently sloping sides and rather uneven slightly concave bases.

#### 3.3.4 Plot 1/09

Plot 1/09 contained a concentration of features centred around NGR NJ 69791 23696 to NJ 69778 23700 (Site 7). These consisted of a circular ditch [007] and six pits [001, 003, 011, 015, 017 and 019]. Details of these features are given below.

#### Site 7

Site 7 was situated on sloping ground to the south of Pittodrie House Hotel at an altitude of c. 170m AOD within an area of mottled yellowish-brown sandy-clay natural.

Circular ditch [007] was partially uncovered during soil stripping operations, with an estimated c.33% of the northern part of this feature lying outwith the working width of the pipeline (Fig. 14 and Fig. 23). The part of this feature uncovered suggests that it had an external diameter of c. 12.3m. Ten sections excavated through the ditch showed that it had gently sloping sides and a slightly irregular concave base (Fig. 15), and that it had a width of up to 1.75m and a depth of up to 0.25m. Sherds of recent pottery were recovered from the base of the ditch and two small lithics were also recovered. Three pits [011, 017 and 019] recorded within the circular ditch are considered most likely to have been stone holes.

Pit [001] and Pit [003] were situated c. 1.25m apart (Fig. 14). They were both circular in plan with diameters of 1.2m and 1.36m and depths of 0.08m and 0.12m respectively. Both had steeply sloping sides and flat bases. The fill (002 and 004 respectively) of these features consisted of charcoal-rich mid-brown silty-sand. Burnt stone at the base of the pits indicates in situ burning. A sherd of fired clay/possible prehistoric pottery was recovered from the fill of pit [001] along with some calcified bone and some possible slag.

Pit [015] was situated c. 8m to the north-west of circular ditch [007] (Fig. 14). It was rather irregular in shape measuring 1.4m east to west by 1.2m north to south, and had a depth of c. 0.15m. The sides of the pit were steeply sloping and it had a flat base. It contained a single fill (016) consisting of mid-brown silty-sand.

#### 3.3.5 Plot 1/10

Plot 1/10 contained two isolated pits at NGR NJ 69539 23963 and at NGR NJ 69547 23986 (Pit [002] and Pit [004] respectively) situated on sloping ground to the west of Pittodrie House Hotel at an altitude of c. 200m AOD within an area of mottled yellowish-brown sandy-clay. Details of these features are contained below.

Pit [002] was sub-circular in plan with a diameter of c. 1.45m. It had sloping sides and a concave base, and had been cut into the subsoil to a depth of 0.4m. The fill (003) of this pit consisted of mid grey-brown sandy-silt with some stone inclusions. This pit contained two fragments of possibly worked dark grey granitic stone and a possible lithic.

Pit [004] was also sub-circular in plan, but was rather smaller at c. 0.8m in diameter. It had sloping sides with a slightly concave base, and had been cut into the natural subsoil to a depth of 0.13m. The fill (005) of this pit consisted of mid grey-brown sandy-silt. A number of lithics were recovered from (005) indicating a possible prehistoric date.

#### 3.3.6 Plot 1/13

#### Site 8

Site 8 was situated on sloping ground to the north of Pittodrie House Hotel and to the south-east of Maiden Castle Fort at an altitude of c. 180m AOD within an area of mottled yellowish-brown sandy-clay natural. It contained a cluster of ten pits [004, 006, 008, 010, 012, 014, 016, 018, 020 and 022] concentrated between NGR NJ

69637 24393 and NJ 69637 24405 (Fig. 16 and Fig. 24) spread out over a distance of c. 10m NE to SW by c. 8m NW by SE. The pits measured between 0.13m and 0.75m in diameter and had depths of between 0.04m and 0.08m. With the exception of pit **004** and pit **006**, all of the pits had sloping sides and a concave base (Fig. 17). Pit **004** had sloping sides and an uneven base and pit **006** had near vertical sides and a flat base (Fig. 17). All of the pits contained a single fill of sandy-silt, which ranged from mid-brown to greyish brown in colour. Pits [**004**, **006**, **008**, **010**, **012**, **016**, **018**, **020** and **022**] formed a rather irregular ring around a central pit [**014**]. The finds from this site consisted of some slag and some CBM (probably pantile) from pit [**006**].

#### 3.3.7 Plot 2/05

Plot 2/05 contained a single linear feature [002] running between NGR NJ 69205 24984 and NGR NJ 69202 24883. This feature is considered to be a modern drainage ditch.

#### 3.3.8 Plot 2/07

Plot 2/07 contained a single crudely built stone box drain (cundy drain) [003] located at NGR NJ 69070 25200.

#### 3.3.9 Plot 2/08

Plot 2/08 contained a single isolated pit [**002**] at NGR NJ 68900 25479 and two linear features [**005** and **007**] (NGR NJ 68901 25468 to NJ 68925 25478 and NJ 68909 25459 to NJ 68967 25364 respectively). Linear feature [**005**] is considered to be a modern drainage feature, but linear feature [**007**] is considered likely to have been an earlier field boundary.

Pit [002] was oval in plan measuring 0.8m east to west by 0.45m north to south, and had been cut into the natural subsoil to a depth of 0.15m. The lower fill (003) of this feature consisted of dark-brown silty gravel and the upper fill (004) consisted of mid to dark-grey silt with occasional flecks of charcoal. Some possible slag was recovered from deposit (004).

Linear feature [007] was aligned roughly north to south. It was very broad, measuring 4m in width, and had been cut into the natural subsoil to a depth of 0.44m. This feature had gently sloping sides and a flattish base. The fill of this feature consisted of mid grey-brown sandy silt with a few stone inclusions.

#### 3.3.10 Plot 3/07

Plot 3/07 contained a single isolated pit [002] at NGR NJ 67802 26995. The pit was circular in plan measuring 0.41m in diameter and had been cut into the natural subsoil to a depth of 0.11m. The fill (003) of this feature consisted of firmly compacted dark grey silt. There were no finds from this feature.

#### 3.3.11 Plot 3/14

Plot 3/14 contained a single square pit [002] at NGR NJ 67236 27542 measuring roughly 2m by 2m. It was very shallow, measuring only 0.08m in depth, and had gently sloping sides and an uneven base. The loose nature of the fill (003) of this feature suggests that it is likely to be modern in date. There were no finds from this feature

## 3.4 The Finds (Sue Anderson)

Table 1 summarises the finds quantities collected during the fieldwork and bulk sample processing. These are quantified by plot and context number in Appendix 4.

The abbreviation B-B following plot number 1/06 refers to the Burnhervie-Broadsea section of pipeline while 1/06 B-OR refers to the Broadsea-Old Rayne section.

Find type	No	Wt (g)
Pot: prehistoric	22	180.6
Fired clay	5	2.1
Lithic	20	8.1
Lithic?	21	15.1
Stone	2	296
Pot: modern	6	5.1
CBM	3	2.6
Clay pipe	1	0.7
Mortar	1	4
Glass	4	19.2
Fe	6	2.7
Slag	7	9
Slag?	39	12
Burnt material	20	6
Bone	45	6.1
Shell	2	0.1

Table 1. Finds quantities.

#### 3.4.1 Prehistoric finds

Twenty-two sherds of prehistoric pottery were recovered from two contexts in plot 1/06 B-B (pit fills 007, 015) (Site 2) and three contexts in plot 1/06 B-OR (ditch fills 031, 060; pit fills 049, 057) (Site 5). Most fragments are undecorated body sherds, although one rim is present. Preliminary assessment suggests that the sherds are likely to be of Late Bronze Age date (M Johnson, pers comm).

Four fragments of fired clay from plot 1/09 context (002) (Site 7) may be prehistoric pottery, but no surfaces were present and the fragments were undiagnostic.

Twenty lithic artefacts and twenty-one possible artefacts were recovered from several plots (see Appendix 4), the majority of the latter being tiny pieces from soil samples. Most were flakes or spalls of flint in a variety of colours (yellow, red, honey-coloured, black), and a few pieces of quartz were also recovered. A possible piercer with a small notch in the worked edge was found in plot 1/06 B-B context (003) (Site 1).

Two fragments of possibly worked dark grey granitic stone were collected from plot 1/10 context (003). A large saddle quern was recovered from plot 1/06 B-OR context (066) (Site 5).

The prehistoric finds comprise a prosaic assemblage of domestic pottery, lithics and a saddle quern, all potentially of later prehistoric date.

#### 3.4.2 Post-medieval finds

Six sherds of modern pottery were found in three contexts. Plot 0/02 context (017) contained a pearlware base fragment and a glazed redware body sherd, plot 1/02 context (007) (Site 3) produced a sherd of spongeware, and three sherds of refined whitewares (possibly creamware) were recovered from plot 1/09 context (008) (Site 7). All sherds are likely to be of 19th-century date.

Two thin flakes of ?pantile were found in plot 1/13 context (007) (Site 8), and an abraded fragment of tile or brick was found in plot 1/09 context (008) (Site 7). A tiny abraded piece of red fired clay with no obvious inclusions may also be post-medieval pottery or tile; it was found in plot 1/06 B-OR context (042) (Site 5). One piece of hard lime ?mortar came from plot 1/06 B-B pit fill (007) (Site 2) and is likely to be intrusive.

A fragment of a clay pipe bowl was recovered from plot 1/06 B-OR context 027 (Site 6).

Two fragments of pale green window glass were found in plot 0/02 context (017) and plot 1/06 B-OR context (004). Plot 1/09 context (008) (Site 7) contained a fragment of green window glass with a grozed edge, and a small piece of green bottle glass. All fragments are post-medieval or modern.

Six small pieces of abraded and corroded iron were recovered from plot 1/09 context (008) (Site 7), in association with modern finds. Only one fragment was identifiable, being a small hobnail.

Fragments of ferrous slag were present in several contexts, although small fragments recovered from samples were less certainly identified. Fragments of burnt material, possibly coal, were also recovered (see Appendix 4 for details).

No further work is recommended on the post-medieval finds.

#### 3.4.3 Biological evidence

Small fragments of calcined bone were collected from several contexts, the majority being small fragments from samples. The largest group, 28 fragments (5.3g), was collected from plot 1/06 B-B pit fill (009) - (013) (Site 2). The few diagnostic pieces were not human. Most of this material was probably accidentally burnt and discarded with domestic waste. One fragment of an animal tooth was the only piece of unburnt animal bone to be recovered.

Two tiny fragments of shell were collected from a sample from plot 0/02 context (013) (Site 3).

No further work is recommended on this material.

### 3.5 Archaeobotanical Analysis (Mhairi Hastie)

Twenty-four bulk soil samples were retained during the watching brief and other archaeological works.

The samples were processed through a system of flotation and wet sieving. The floating debris (flot) was collected in a 250  $\mu$ m sieve, and once dry, scanned using a binocular microscope. Where the flot only contained small amounts of debris the whole of the flot was scanned for plant remains, while much larger flots were split into smaller fractions and a proportion of the flot was scanned to provide an idea of the quantity/quality of plant material present in each. The material remaining in the flotation tank was washed through a 1mm mesh, and air-dried, then sorted for any archaeologically significant material.

Small quantities of carbonised plant remains were recovered from the majority of the samples including cereal grain, chaff fragments, weed seeds, hazelnut shell, charcoal and peat. A summary of the plant remains recovered is provided in Appendix 2. The spread of plant material was rather homogenous across the different excavated areas and throughout the different features.

No further work is recommended on the archaeobotanical assemblage.

#### Cereal grains

The cereal grains consisted principally of barley grain (*Hordeum* sp.) with occasional grains of oat (*Avena* sp.). Much of the grain was abraded and could not be identified to species level. A general spread of small amounts of grain was noted in features uncovered from Sites 2, 3 and 5; small amounts of grain were also recovered from a linear feature (**003**) from Site 6 and the fill of a circular-ditch (**007**), Site 7. Of note is the presence of a small quantity of barley grain that has elongated embryos recovered from the circular ditch (**007**), Site 7, suggesting that the grain may have started to ferment before being burnt. Overall, the grain assemblage, dominated by barley, is typical of the prehistoric period in Scotland.

### Chaff

One straw culm node was recovered from the fill of pit (076) (Site 5) and the remains of a spikelet fork of emmer/spelt (*Triticum dicoccum /spelta*) was found in the fill of a possible post-hole (005) (Site 5). No actual wheat grains were recovered from the samples but the presence of a spikelet fork of wheat does suggest that glume wheat (which is tightly enclosed in the husks of the grain, which must be removed before using the grain) was being processed at the site.

#### Weed seeds

The remains of only two weed seeds were recovered, one from each of the fills of pit [065] and pit [076] (Site 5). Both weed seeds were poorly preserved and only one could be identified as persicaria/pale persicaria (*Polygonum persicaria* / *lapathifolium*). The seeds could have been brought to the site along with the grain, or growing as weeds on the site, and burnt accidentally.

#### Hazelnut shell

Fragments of carbonised hazelnut shell were recovered from most of the samples. The largest concentration of hazelnut shell was present in the fill of an isolated pit (004) (Plot 1/10) – the concentration of hazelnut shell in this pit potentially suggests that it may be a prehistoric roasting pit.

#### Other potential economic species

Three seeds of field pea (*Pisum sativum*) were recovered from the fill of pit [061] (Site 5). Legume seeds are rarely recovered from archaeological deposits in Scotland and in most cases are recovered from medieval deposits, although peas are known to have been cultivated in Britain from at least the Iron Age period. Legumes do not need to be dried prior to cooking, as in the case of cereal grain, and are therefore less likely to become burnt and preserved in the archaeological record.

#### Charcoal

Wood charcoal was recovered from the majority of the samples and large quantities of both oak charcoal and smaller round wood fragments were recovered. Samples that contain large quantities of charcoal (highlighted by '+++' and '++++' in the charcoal column in Appendix 7) would be suitable for AMS dating (apart from two samples which contain nothing but oak charcoal and which would not be suitable for dating purposes given the potential longevity of oak trees).

#### Heather Charcoal / Rhizomes and Peat

A small quantity of heather charcoal was recovered from the fill of pit [008] (Site 2). In addition low concentrations of rhizomes (underground stems) were present in four samples and fragments of burnt peat were found in two of the samples. The presence of this material suggests that some peaty turfs may have been used as a source of fuel along with the collected wood.

#### 4. **DISCUSSION**

A range of archaeological features were excavated in Plot 1/06 of the Burnhervie-Broadsea pipeline and Plots 0/02, 1/02, 1/06, 1/09, 1/10, 1/13, 2/08 of the Broadsea-Old Rayne pipeline. While some of these sites are likely to be prehistoric in date, on the basis of the artefacts they contained, others are undated.

Several small groups of pits (Sites 1-4 and 6) were recorded. One of the pits in Site 1 contained a worked lithic, while two of the pits forming Site 2 contained sherds of prehistoric pottery. Burnt barley grain was also recovered from Site 2 and is suggestive of a prehistoric date. Site 6 consisted of 7 pits, two of which contained worked lithics. With the possible exception of Site 3, these features did not appear to be structural and were not associated with any other features. Site 3 contained two roughly parallel lines of three pits forming a possible rectilinear structure measuring c. 5m NE to SW by c. 2.5m NW to SE. Aside from the possible structural function of the pits at Site 3, the purpose of the pits remains unclear as they do not contain sufficient quantities of artefacts to be considered as either rubbish pits or for the ritual deposition of artefacts. It is possible that prehistoric settlement activity was taking place somewhere in the vicinity of these sites and that these pits are outliers to the main concentration of activity. Sites 3 and 4 consisted of a variety of pits, none of which contained any datable artefacts although burnt barley grain from Site 3 is suggestive of a prehistoric date. The purpose and date of these features is unknown.

Site 5 consisted of 20 pits and several linear features. Prehistoric pottery, lithics and a saddle quern were recovered along with field peas, barley and oat grain, and wheat chaff. This collection of features does not contain any certain structures in plan, although the association of pit [036] with ditch [030] and pit [076] with gully [079] are suggestive of structural associations. The close proximity of post-hole [005] with post-hole [067] is perhaps also indicative of a structural function. However, the shallow nature of the majority of the pit features is perhaps indicative of heavy truncation and further features constituting a cohesive structure may have been ploughed out. Pit 076 was lined with cobbles, possibly suggesting that it may have functioned as a storage pit where the stored material had to be kept away from the wet sandy-clay subsoil. However, there was no material recovered from the pit which would support this hypothesis. The quantity of prehistoric artefacts recovered from this site is much greater than any of the others and the whole is suggestive of prehistoric settlement activity, with possibly the main focus of the settlement being off-easement. Pottery recovered from a number of the pits suggests that the settlement is likely to date to the Late Bronze Age. Further evidence of Bronze Age activity within the immediate area consists of a cist (NMRS No. NJ62SE 5) containing two short-necked beakers, which were found in c. 1895 c. 100m due west of Pittodrie Home Farm. Further significant archaeological finds/sites within the nearby area include a flint leaf arrowhead (NMRS No. NJ62SE 14) found at Pittodrie, a stone axehead found close to the Linn Burn (NMRS No. NJ62SE 6), and Maiden Castle hill fort (NMRS No. NJ62SE 2). There have also been a number of stone axes found within the area of Chapel of Gairoch.

Site 7 consisted of a circular ditch of 12.3m diameter partially uncovered in the working width. The exposed arc of the ditch was continuous with no break in its circuit to indicate an entrance. If an entrance is present it could be on the unexcavated north or north-east side. The lack of internal features could mean that the feature was not a building, but a small enclosed area. A quantity of barley grain was recovered from the ditch fill along with two tiny pieces of flint and a number of post-medieval items including glass and ferrous material. The post-medieval items were recovered from a secure context close to the base of the ring-ditch suggesting a fairly recent date for this feature, although this does not fit with the presence of germinated barley grain and flint. Its purpose remains unknown, but it may have been related to the estate associated with Pittodrie House. A similar circular ditch was recorded on the St Fergus to Aberdeen pipeline (Cameron 2002) near Maud to the north-east of Inverurie. Again, only two thirds of this feature lay within the working width and it had a diameter of about 10.5m, a ditch width of 1-1.5m, and no visible entrance or internal features.

Site 8, when first uncovered, appeared to be a ring of pits and was thought to possibly represent the truncated remains of a roundhouse or some other kind of prehistoric structure. However, on excavation it was found that many of these features were of a very small diameter and appeared rather randomly placed suggesting that a substantial structure indicated by the c. 10m by 8m spread of pits was probably unlikely. Although this site is considered more likely to simply represent a scatter of variously-sized small pits, it appears to have been heavily truncated raising the possibility that it may have been a structure consisting of numerous small posts, the evidence for which has now been destroyed by ploughing. However, any inference of this being a structure can be only considered speculation and the purpose of these features is unknown. Some slag and CBM recovered from one of the pits suggests that a post-medieval date is most likely, but the loose nature of the deposits within the pits means that the contexts cannot be regarded as completely secure, and the close proximity of the site to Maiden Castle hill fort might suggest an Iron Age date.

#### 5. CONCLUSIONS

A programme of archaeological works was carried out during the construction of a high pressure natural gas pipeline running from Burnhervie to Old Rayne and Broadsea to Burnhervie. The programme of works consisted of a watching brief undertaken during soil stripping operations and subsequent mitigation excavations relating to the features uncovered.

The staged approach proved extremely successful in managing the archaeological resource. The extensive gazetteer of sites and sites of archaeological potential, produced as a result of comprehensive DBA and FSU studies facilitated on-site identification of features and aided identification of key areas of greater archaeological potential. The watching brief led to the discovery of eight concentrations of archaeological features (Site 1 to Site 8) as well as a number of isolated features. These largely consisted of pits and linear ditches of varying sizes. Significant finds uncovered included prehistoric pottery, lithics and a saddle quern.

The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the National Monuments Record of Scotland (NMRS) and copies of reports will be lodged with the Aberdeenshire Council Sites and Monuments Record.

A summary statement of the results of this watching brief will be submitted for publication in *Discovery and Excavation in Scotland* once all archaeological works are completed. An *OASIS Scotland* entry will also be completed.

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# **APPENDIX 1: Context Register**

## Plot 1/06 Burnhervie to Broadsea

Context	Fill of	Site	Description
000	N/A	All	Topsoil
001	N/A	All	Subsoil
002	N/A	1	Cut of pit
003	002	1	Fill of pit – grey-brown sandy-silt
004	N/A	1	Cut of pit
005	004	1	Fill of pit – brownish-grey silty-sand
006	N/A	2	Cut of pit
007	006	2	Fill of pit – greyish-brown sandy-silt
008	N/A	2	Cut of pit
009	008	2	Basel fill of pit – orangey-brown silty-sand
010	008	2	Fill of pit- dark bluish-brown sandy-silt
011	008	2	Fill of pit – orange-brown silty-sand
012	008	2	Fill of pit – medium brown sandy-silt
013	008	2	Fill of pit – bluish-brown sandy-silt
014	N/A	2	Cut of pit
015	014	2	Basel fill of pit – greyish-brown sandy silt
016	014	2	Fill of pit – greyish-orange silty-sand
017	014	2	Fill of pit – dark bluish-brown silt
018	014	2	Fill of pit – greyish-brown sandy-silt

## Plot 0/02 Broadsea to Old Rayne

Context	Fill of	Site	Description
000	N/A	All	Topsoil
001	N/A	All	Subsoil
002	N/A	3	Cut of pit
003	002	3	Fill of pit – light grey-brown silty-sand
004	N/A	3	Cut of pit
005	004	3	Fill of pit – grey-black silt
006	N/A	3	Cut of pit
007	006	3	Fill of pit – dark brown sandy-silt
008	N/A	3	Cut of pit
009	008	3	Fill of pit – greyish-brown sandy-silt
010	N/A	3	Cut of pit
011	010	3	Fill of pit – greyish-brown silty-sand
012	N/A	3	Cut of pit
013	012	3	Fill of pit – dark orangey-brown sandy-silt
014	N/A	3	Cut of pit
015	014	3	Fill of pit - greyish-brown sandy-silt
016	N/A	N/A	Cut of pit
017	016	N/A	Fill of pit – grey-brown sandy-silt with frequent large rocks

# Plot 1/02 Broadsea to Old Rayne

Context	Fill of	Site	Description
001	N/A	All	Topsoil
002	N/A	All	Natural subsoil
003	005	N/A	Fill of 005, mid-dark brown silt
004	005	N/A	Fill of 005, dark brown/black peat
005	N/A	N/A	Cut of possible feature
006	N/A	N/A	Cut of possible feature

Context	Fill of	Site	Description
007	006	N/A	Fill of 006, loose mid-brown silt
008	N/A	N/A	Cut of rig and furrow
009	008	N/A	Fill of rig and furrow, loose mid-brown silt
010	N/A	4	Cut of pit
011	010	4	Primary fill of pit
012	010	4	Upper fill of pit
013	N/A	4	Cut of pit
014	013	4	Fill of pit
015	N/A	4	Cut of rubble-filled drain
016	015	4	Stones within rubble field drain
017	N/A	4	Cut of pit
018	017	4	Fill of pit - dark silt with numerous angular stones

# Plot 1/06 Broadsea to Old Rayne

Context	Fill of	Site	Description
001	N/A	All	Topsoil
002	N/A	All	Natural subsoil
003	N/A	6	Cut of linear
004	004	6	Fill of linear – mid-brown sandy-silt
005	N/A	5	Cut of possible post-hole
006	005	5	Fill of possible post-hole
007	N/A	6	Cut of pit
008	007	6	Fill of pit – brown clayey-silt
009	N/A	6	Cut of pit
010	009	6	Fill of pit – brown sandy-silt
011	N/A	6	Cut of pit
012	011	6	Fill of pit – grey clay
013	011	6	Fill of pit – dark-brown clayey-silt
014	011	6	Fill of pit – orange-brown sand
015	011	6	Brown clayey-silt
016	N/A	6	Cut of pit
017	016	6	Fill of pit – brownish-orange sandy-silt
018	016	6	Fill of pit – grey-brown sandy-silt
019	016	6	Fill of pit – dark-brown silt
020	N/A	6	Cut of pit
021	020	6	Fill of pit – dark-brown clayey-silt
022	N/A	6	Cut of pit
023	022	6	Fill of pit – orange sand
024	022	6	Fill of pit – brown sandy-silt
025	N/A	6	Cut of linear
026	025	6	Fill of linear – brown sandy-silt
027	N/A	6	Buried soil cut by linear 025
028	N/A	6	Cut of pit
029	028	6	Fill of pit – brown sandy-silt
030	N/A	5	Cut of curving linear
031	030	5	Fill of curving linear – orangey-brown silty-sand
032	N/A	5	Cut of pit
033	032	5	Fill of put – brownish-grey clayey-silt
034	N/A	5	Cut of pit/post-hole
035	034	5	Fill of pit/post-hole – medium brown clayey-silt
036	N/A	5	Cut of pit
037	036	5	Lower fill of pit – grey-brown sand
038	036	5	Upper fill of pit – brown sandy-silt
039	N/A	5	Cut of pit
040	039	5	Fill of pit – brown silty- sand

Context	Fill of	Site	Description
041	044	5	Fill of pit – grey-brown sand
042	044	5	Fill of pit – brown silty-sand
043	044	5	Fill of pit – brown silty-sand
044	N/A	5	Cut of pit
045	N/A	5	Cut of pit
046	045	5	Fill of pit – medium-brown clayey-silt
047	045	5	Fill of pit – dark blackish-orange silty-sand
048	N/A	5	Cut of pit
049	048	5	Fill of pit – medium-brown silt
050	N/A	5	Cut of pit
051	050	5	Lower fill of pit – grey-brown silty-sand
052	050	5	Upper fill of pit – brown sandy-silt
053	N/A	5	Cut of post-hole
054	053	5	Fill of post-hole – grey-brown sandy-silt
055	050	5	Fill of pit – grey-brown silty-sand
056	N/A	5	Cut of pit
057	056	5	Upper fill of pit – grey-brown silty-sand
058	056	5	Upper fill of pit – light grey-brown sand
059	N/A	5	Cut of linear
060	059	5	Fill of linear – medium brown silt
061	N/A	5	Cut of pit
062	061	5	Fill of pit – greyish-brown sandy silt
063	N/A	5	Cut of pit
064	063	5	Fill of pit – greyish-brown sandy-silt
065	N/A	5	Cut of pit
066	065	5	Fill of pit – brown silty-sand
067	N/A	5	Cut of post-hole
068	067	5	Fill of post-hole – brown silt
069	N/A	5	Cut of pit
070	069	5	Fill of pit – orangey-brown sandy-silt
071	N/A	5	Cut of pit
072	071	5	Lower fill of pit – greyish-brown clayey-silt
073	071	5	Upper fill of pit – dark-brown sandy-silt
074	N/A	5	Cut of pit
075	074	5	Fill of pit – greyish- brown clayey-silt
076	N/A	5	Cut of pit
077	076	5	Lower fill of pit – grey silty-sand
078	076	5	Fill of pit – grey-brown silty-sand
079	N/A	5	Cut of linear
080	079	5	Fill of linear – brown silty-sand
081	076	5	Stone surface at the base of pit
082	076	5	Upper fill of pit – brown silty-sand
083	N/A	5	Cut of pit
084	083	5	Fill of pit – dark-grey clayey-silt
085	083	5	Fill of pit – greyish-brown sandy-silt
086	076	5	Fill of pit – grey-brown silty-sand
087	N/A	5	Cut of pit
	1 <b>N</b> / <i>F</i> <b>A</b>		

# Plot 1/09 Broadsea to Old Rayne

Context	Fill of	Site	Description
001	N/A	7	Cut of pit
002	001	7	Fill of pit – mid-brown silty-sand
003	N/A	7	Cut of pit
004	003	7	Fill of pit – mid-brown silty-sand
005	N/A	7	Topsoil
006	N/A	7	Subsoil
007	N/A	7	Cut of circular ditch
008	007	7	Fill of circular ditch – brown sandy-silt
009	N/A	7	Cut of drainage ditch
010	009	7	Fill of drainage ditch
011	N/A	7	Cut of possible pit
012	011	7	Fill of possible pit – grey-brown silty-sand
013	N/A	7	Cut of drainage ditch
014	013	7	Fill of drainage ditch – brown silty-sand
015	N/A	7	Cut of possible pit
016	015	7	Fill of possible pit
017	N/A	7	Cut of pit
018	017	7	Fill of pit – brown sandy-silt

# Plot 1/10 Broadsea to Old Rayne

Context	Fill of	Site	Description
000	N/A	N/A	Topsoil
001	N/A	N/A	Subsoil
002	N/A	N/A	Cut of pit
003	002	N/A	Fill of pit – mid grey-brown sandy-silt
004	N/A	N/A	Cut of pit
005	004	N/A	Fill of pit – mid grey-brown sandy-silt

# Plot 1/13 Broadsea to Old Rayne

Context	Fill of	Site	Description
000	N/A	8	Topsoil
001	N/A	8	Subsoil
002	N/A	N/A	Cut of rig-and-furrow
003	002	N/A	Fill of rig-and-furrow
004	N/A	8	Cut of pit
005	004	8	Fill of pit – medium brown sandy-silt
006	N/A	8	Cut of pit
007	006	8	Fill of pit – greyish-brown sandy-silt
008	N/A	8	Cut of pit
009	008	8	Fill of pit – greyish-brown sandy-silt
010	N/A	8	Cut of pit
011	010	8	Fill of pit - greyish-brown sandy-silt
012	N/A	8	Cut of pit
013	012	8	Fill of pit - greyish-brown sandy-silt
014	N/A	8	Cut of pit
015	014	8	Fill of pit - greyish-brown sandy-silt
016	N/A	8	Cut of pit
017	016	8	Fill of pit - greyish-brown sandy-silt
018	N/A	8	Cut of pit
019	018	8	Fill of pit – greyish brown silty-sand
020	N/A	8	Cut of pit

Context	Fill of	Site	Description
000	N/A	8	Topsoil
001	N/A	8	Subsoil
021	020	8	Fill of pit - greyish-brown sandy-silt
022	N/A	8	Cut of pit
023	022	8	Fill of pit - greyish-brown sandy-silt

# Plot 2/05 Broadsea to Old Rayne

Context	Fill of	Site	Description
000	N/A	N/A	Topsoil
001	N/A	N/A	Subsoil
002	N/A	N/A	Cut of drainage ditch
003	002	N/A	Fill of drainage ditch – mid-brown silty-clay

## Plot 2/08 Broadsea to Old Rayne

Context	Fill of	Site	Description		
000	N/A	N/A	Topsoil		
001	N/A	N/A	Subsoil		
002	N/A	N/A	Cut of pit		
003	002	N/A	Primary fill of pit – dark brown silt and gravel		
004	002	N/A	Upper fill of pit – mid to dark-grey silt		
005	N/A	N/A	Cut of drainage ditch		
006	005	N/A	Fill of drainage ditch		
007	N/A	N/A	Cut of possible field boundary ditch		
008	007	N/A	Fill of possible field boundary ditch – mid grey-brown sandy-silt		

# Plot 3/07 Broadsea to Old Rayne

Context	Fill of	Site	Description
000	N/A	N/A	Topsoil
001	N/A	N/A	Subsoil
002	N/A	N/A	Cut of pit
003	002	N/A	Fill of pit – dark grey silt

## Plot 3/14 Broadsea to Old Rayne

Context	Fill of	Site	Description
000	N/A	N/A	Topsoil
001	N/A	N/A	Subsoil
002	N/A	N/A	Cut of pit
003	002	N/A	Fill of pit – grey/beige clay, silt and stone

**APPENDIX 2: Feature List** 

Context	Plot	Description	NGR
Site 1	1/06 B-B	2 pits	NJ 70743 21176
Site 2	1/06 B-B	3 pits	NJ 70619 21203
016	0/02 B-OR	1 pit	NJ 70561 21311
Site 3	0/02 B-OR	7 pits	NJ
Site 4	1/02 B-OR	3 pits	NJ 70500 22845
005	1/02 B-OR	1 pit	NJ 70447 22520
006	1/02 B-OR	1 pit	NJ 70484 22746
Site 5	1/06 B-OR	20 pits, 3 linear features	NJ 70043 23448
Site 6	1/06 B-OR	7 pits, 2 linear features	NJ 70201 23319
Site 7	1/09 B-OR	Circular ditch, 6 pits	NJ 69791 23696
002	1/10 B-OR	1 pit	NJ 69539 23963
004	1/10 B-OR	1 pit	NJ 69547 23986
Site 8	1/13 B-OR	10 possible post-holes	NJ 69637 24393
002	2/05 B-OR	Linear feature	NJ 69205 24984
003	2/07 B-OR	Stone drain	NJ 69070 25200
002	2/08 B-OR	1 pit, 2 linear features	NJ 68900 25479
002	3/07 B-OR	1 pit	NJ 67802 26995
002	3/14 B-OR	1 pit	NJ 67236 27542

# **APPENDIX 3: Photographic Register**

# Colour Slide and Black and White (Camera 1)

# Film 1

Number	Description	From	Conditions
1	Plot 1/02, Site 4, pit 010, N facing section	N	Sun
2	Close up of board for photo above	N	Sun
3	Plot 1/02, Site 4, pit 013, partially excavated showing it cut by FD 015	N	Sun
4	Close up of board for above photo	N	Sun
5-6	Plot 1/02, Site 4, pit 010, post-excavation	W	O/C
7-8	Plot 1/02, Site 4, pit 010, post-excavation	Е	O/C
9-10	Plot 1/02, Site 4, pit 010, post-excavation	S	O/C
11-12	Plot 1/02, Site 4, pit 010, post-excavation	N	O/C
13-14	Plot 1/02, Site 4, pit 013, post-excavation	Е	O/C
15-16	Plot 1/02, Site 4, pit 013, post-excavation	N	O/C
17-18	Plot 1/02, Site 4, pit 013, post-excavation	S	O/C
19-20	Plot 1/02, Site 4, pit 013, post-excavation	W	O/C
21-22	Plot 1/02, Site 4, pit 017, N facing section	N	O/C
23-24	Plot 1/02, Site 4, pit 017, E facing section	Е	O/C
25-26	Plot 1/06, Site 6, linear 003, NE facing section	NE	Sun after heavy rain
27-28	Plot 1/06, Site 5, post hole 005, E facing section	Е	Sun after heavy rain
29-30	Plot 1/06, Site 5, post hole 005, post-excavation	Е	Sun shaded by trees
31-32	Plot 1/06, Site 5, main area of archaeology, pre-excavation shots	N	Sun shaded by trees
33-34	Plot 1/06, Site 5, main area of archaeology, pre-excavation shots	S	O/C
35-36	Plot 1/02, Site 4, pits below OHx3, general post excavation shots of area	W	Sun
37-38	Plot 1/02, Site 4, pits below OHx3, general post excavation shots of area	Е	Sun

## Film 2

Number	Description	From	Conditions
1-2	Plot 1/06, Site 6, pit 007, E facing section	Е	O/C
3-4	Plot 1/06, Site 6, pit 009, NW facing section	NW	O/C
5-6	Plot 1/06, Site 6, pit 011, E facing section	E	O/C
7-8	Plot 1/06, Site 6, pit 016, E facing section	E	Sun
9-10	Plot 1/06, Site 6, pit 022, NE facing section	NE	Sun
11-12	Plot 1/06, Site 6, pit 020, SE facing section	SE	Sun
13-14	Plot 1/06, Site 6, ditch 023, SW facing section	SW	Sun
15-16	Plot 1/06, Site 6, ditch 003, SW facing section	SW	Sun
17-18	Plot 1/06, Site 6, pit 028, SE facing section	SE	O/C
19-20	Plot 1/06, Site 5, linear 030, section 1, NW facing	NW	Sun
21-22	Plot 1/06, Site 5, linear 030, section 2, SE facing	SE	Sun
23-24	Plot 1/06, Site 5, linear 030, section 3, NW facing	NW	Sun
25-26	Plot 1/06, Site 5, linear 030, section 4, E facing	E	Sun
27-28	Plot 1/06, Site 5, linear 030, section 5, W facing	W	Sun
29-30	Plot 1/06, Site 5, linear 030, section 6, E facing	E	Sun
31-32	Plot 1/06, Site 5, pit 044, S facing section	S	Sun
33-34	Plot 1/06, Site 5, pit 036 N and E facing sections oblique	NE	Sun

	shots from NE		
35-36	Plot 1/06, Site 5, pit 036, S and W facing sections. Oblique	SW	Sun
	shots from SW		

# Film 3

Number	Description	From	Conditions
1-2	Plot 1/06, Site 5, pit 032, E facing section	E	Sun
3-4	Plot 1/06, Site 5, pit 050, E facing section	E	Sun
5-6	Plot 1/06, Site 5, pit 045, NW facing section	NW	Sun
7-8	Plot 1/06, Site 5, pit 048, NE and SE facing section, oblique	E	Sun
	shot from E		
9-10	Plot 1/06, Site 5, pit 048, NW and SW facing section, oblique	W	Sun
	shot from W		
11-12	Plot 1/06, Site 5, pit 056/065, NE facing section	NE	O/C
13-14	Plot 1/06, Site 5, pit 061 SE facing sections	SE	O/C
15-16	Plot 1/06, Site 5, pit 069, W facing section	W	O/C
17-18	Plot 1/06, Site 5, pit 063, S facing section	S	O/C
19-20	Plot 1/06, Site 5, linear 030, section 7, longitudinal, N facing	N	O/C
21-22	Plot 1/06, Site 5, linear 059, N-facing, longitudinal section	NE	O/C
23-24	Plot 1/06, Site 5, linear 059, SE facing section	SE	O/C
25-26	Plot 1/06, Site 5, pit 071, W facing section	W	O/C
27-28	Plot 1/06, Site 5, pit 074, NE facing section	NE	Rain
29-30	Plot 1/06, Site 5, pit 076, SE facing section	SE	O/C
31-32	Plot 1/06, Site 5, pit 076, SW facing section	SW	O/C
33-34	Plot 1/06, Site 5, pit 076, NW facing section	NW	O/C
35-36	Plot 1/06, Site 5, pit 076, NE facing section	NE	O/C

## Film 4

Number	Description	From	Conditions
1-2	Plot 1/06, Site 6, southern part, general post-excavation shot	N/A	O/C
3-4	Plot 1/06, Site 6, southern part, general post-excavation shot	N/A	O/C
5-6	Plot 1/06, Site 6, southern part, general post-excavation shot	N/A	O/C
7-8	Plot 1/06, Site 5, pit 083, E facing section	Е	O/C
9-10	Plot 1/06, Site 5, pit 087, NW facing section	NW	O/C

# Film 5

Number	Description	From	Conditions
1-2	Plot 1/06, Site 5, pit 065, post-excavation	SE	O/C
3-4	Plot 1/06, Site 5, post hole 067, post excavation	SE	O/C
5-6	Plot 1/06, Site 5, pit 056, post-excavation	NW	O/C
7-8	Plot 1/06, Site 5, linear 079, NW facing section	NW	O/C
9-10	Plot 1/06, Site 5, pit 076, post-excavation	NW	O/C
11-12	Plot 1/06, Site 5, pit 076, post-excavation	SE	O/C
13-14	Plot 1/06, pit 076, post-excavation	SW	O/C
15-16	Plot 1/06, Site 5, general post-excavation shots	N/A	N/A
17-18	Plot 1/06, Site 5, general post-excavation shots	N/A	N/A
19-20	Plot 1/06, Site 5, general post-excavation shots	N/A	N/A
21-22	Plot 1/06, Site 5, general post-excavation shots	N/A	N/A
23-24	Plot 1/13, Site 8, pit 004, NE facing section	NE	Sun
25-26	Plot 1/13, Site 8, pit 006, SE facing section	SE	Sun
27-28	Plot 1/13, Site 5, pit 008, NW facing section	NW	Sun
29-30	Plot 1/13, Site 8, pit 010, E facing section	Е	Sun
31-32	Plot 1/13, Site 8, pit 012, NW facing section	NW	Sun

33-34	Plot 1/13, Site 8, pit 014, E facing section	E	Sun
35-36	Plot 1/13, Site 8, pit 016, N facing section	N	Sun

## Film 6

Number	Description	From	Conditions
1-2	Plot 1/13, Site 8, pit 018, E facing section	Е	Sun
3-4	Plot 1/13, Site 8, general post-excavation shot	N/A	N/A
5-6	Plot 1/13, Site 8, general post-excavation shot	N/A	N/A
7-8	Plot 1/09, Site 7, curvilinear 007, section 1, SW facing	SSW	O/C
9-10	Plot 1/09, Site 7, curvilinear 007, section 2, NNE facing	NNE	O/C
11-12	Plot 1/09, Site 7, curvilinear 007, section 3, SW facing	SW	O/C
13-14	Plot 1/09, Site 7, curvilinear 007, section 4, E facing	E	Sun
15-16	Plot 1/09, Site 7, curvilinear 007, section 5, W facing	W	O/C
17-18	Plot 1/09, Site 7, curvilinear 007, section 6, W facing	W	O/C
19-20	Plot 1/09, Site 7, curvilinear 007, section 7, NW facing	NW	O/C
21-22	Plot 1/09, Site 7, curvilinear 007, section 8, SE facing	SE	O/C
23-24	Plot 1/09, Site 7, curvilinear 007, section 9, N facing	N	O/C
25-26	Plot 1/09, Site 7, curvilinear 007, section 10, SSW facing	SSW	O/C
27-28	Plot 1/09, Site 7, pit 017, NW facing section	NW	O/C
29-30	Plot 1/09, Site 7, pit 011, SE facing section	SE	O/C
31-32	Plot 0/02, Site 3, pit 008, W facing section	W	Sun
33-34	Plot 0/02, Site 3, pit 006, SW facing section	SW	O/C
35-36	Plot 0/02, Site 3, pit 012, W facing section	W	O/C

## Film 7

Number	Description	From	Conditions
1-2	Plot 0/02, Site 3, pit 010, SW facing section	SW	O/C
3-4	Plot 0/02, Site 3, pit 004, S facing section	S	O/C
5-6	Plot 0/02, Site 3, pit 002, N facing section	N	O/C
7-8	Plot 1/09, Site 7, 019, S facing section	S	O/C
9-10	Plot 1/09, Site 7, pit 015, S facing section	S	O/C
11-12	Plot 1/09, Site 7, curvilinear 007, general post-excavation	N/A	N/A
	shot		
13-14	Plot 1/09, Site 7, curvilinear 007, general post-excavation	N/A	N/A
	shot		
15-16	Plot 1/09, Site 7, curvilinear 007, general post-excavation	N/A	N/A
	shot		
17-18	Plot 1/09, Site 7, curvilinear 007, general post-excavation	N/A	N/A
	shot		
19-20	Plot 1/13, Site 8, pit 020, W facing section	W	O/C
21-22	Plot 1/13, Site 8, pit 022, NW facing section	NW	O/C
23-24	Void	N/A	Void
25-26	Plot 1/06, (B->B), Site 1, pit 002, SW facing section	SW	Sun
27-28	Plot 1/06 (B->B), Site 2, pit 006, NE facing section (wrong	NE	Sun
	plot number on board)		
29-30	Plot 1/06 (B->B), Site 2, pit 006, NE facing section	NE	Sun
31-32	Plot 1/06 (B->B), Site 2, pit 008, SW facing section	SW	O/C
33-34	Plot 1/06 (B->B), Site 2, pit 008, SE facingt section	SE	O/C
35-36	Plot 0/02, pit 016, N facing section	N	Sun

## Film 8

Number	Description	From	Conditions
1-2	Plot 1/06 (B->B), Site 2, pit 008, NE facing section	N/E	Sun

3-4	Plot 1/06 (B->B), Site 2, pit 008, NW facing section	NW	Sun
5-6	Plot 1/06 (B->B), Site 2, pit 014, S facing section	S	Sun
7-8	Plot 1/06 (B->B) Site 2, pit 006, post-excavation	N	O/C
9-10	Plot 1/06 (B->B), Site 2, general post-excavation shots	N/A	N/A
11-12	Plot 1/06 (B->B), Site 2, general post-excavation shots	N/A	N/A
13-14	Plot 1/06 (B->B), Site 2, general post-excavation shots	N/A	N/A
15-16	Plot 1/06 (B->B), Site 2, pit 008 post-excavation	SE	O/C
17-18	Plot 1/06 (B->B), Site 2, pit 014, post-excavation	NW	O/C

# Colour Slide and Black and White (Camera 1)

## Film 1

Number	Description	From	Conditions
1-2	Registration		N/A
3-4	3/14 (002), section, general	W	N/A
5-6	3/14 (002), section, detail	W	N/A
7-8	3/08 general view of FSU 027 bedrock	W	N/A
9-10	3/10 working shot	N/A	N/A
11-12	3/07 working shot	N/A	N/A
13-14	3/07 - [002], pre-ex	NW	N/A
15-16	3/07 - [002] section	NE	N/A

# Digital (Camera 1)

Number	Description	From	Conditions
1-5	General working shots	Various	Various
6	Plot 1/02, linear 005, N facing section	N	Sun
7	Plot 1/02, linear 005, S facing section	S	Sun
8	Linear 005, post excavated plot 1/02	S	Sun
9	Linear 005, post excavated plot 1/02	N	Sun
10	Linear 005, post excavated plot 1/02	N	Sun
11	Linear 005, post excavated plot 1/02	S	Sun
12	Rig and furrow in plot 1/02, general shot	S	Sun
13-14	Section through rig and furrow	NE	O/C
15-16	Plot 1/02, pit 006 E facing section	Е	O/C
17-18	Plot 1/02 pit 006, post-excavation	Е	O/C
19	Plot 1/02, Site 4, pit 010, N facing section	N	Sun
20	Close up of board for photo above	N	Sun
21	Plot 1/02, Site 4, pit 013, partially excavated showing it cut	N	Sun
	by FD 015		
22	Close up of board for above photo	N	Sun
23-24	Plot 1/02, Site 4, pit 010, post-excavation	W	O/C
25-26	Plot 1/02, Site 4, pit 010, post-excavation	E	O/C
27-28	Plot 1/02, Site 4, pit 010, post-excavation	S	O/C
29-30	Plot 1/02, Site 4, pit 010, post-excavation	N	O/C
31-32	Plot 1/02, Site 4, pit 013, post-excavation	Е	O/C
33-34	Plot 1/02, Site 4, pit 013, post-excavation	N	O/C
35-36	Plot 1/02, Site 4, pit 013, post-excavation	S	O/C
37-38	Plot 1/02, Site 4, pit 013, post-excavation	W	O/C
39-40	Plot 1/02, Site 4, pit 017, N facing section	N	O/C
41-42	Plot 1/02, Site 4, pit 017, E facing section	Е	O/C
43-44	Plot 1/06, Site 6, linear 003, NE facing section	NE	Sun after
			heavy rain
45-46	Plot 1/06, Site 5, post hole 005, E facing section	Е	Sun after
			heavy rain

Number	Description	From	Conditions
47-48	Plot 1/06, Site 5, post hole 005, post-excavation	Е	Sun shaded
	7 71		by trees
49-50	Plot 1/06, Site 5, main area of archaeology, pre-excavation	N	Sun shaded
	shots		by trees
51-52	Plot 1/06, Site 5, main area of archaeology, pre-excavation	S	O/C
	shots		
53-54	Plot 1/06, Site 5, main area of archaeology, pre-excavation	NW	O/C
	shots		
55-56	Plot 1/02, Site 4, pits below OHx3, general post excavation	W	Sun
	shots of area		
57-58	Plot 1/02, Site 4, pits below OHx3, general post excavation	E	Sun
	shots of area		
59-60	Plot 1/06, Site 6, pit 007, E facing section	Е	O/C
61-62	Plot 1/06, Site 6, pit 009, NW facing section	NW	O/C
63-64	Plot 1/06, Site 6, pit 011, E facing section	E	O/C
65-66	Plot 1/06, Site 6, pit 016, E facing section	E	Sun
67-68	Plot 1/06, Site 6, pit 022, NE facing section	NE	Sun
69-70	Plot 1/06, Site 6, pit 020, SE facing section	SE	Sun
71-72	Plot 1/06, Site 6, ditch 023, SW facing section	SW	Sun
73-74	Plot 1/06, Site 6, ditch 003, SW facing section	SW	Sun
75-76	Plot 1/06, Site 6, pit 028, SE facing section	SE	O/C
77-78	Plot 1/06, Site 5, linear 030, section 1, NW facing	NW	Sun
79-80	Plot 1/06, Site 5, linear 030, section 2, SE facing	SE	Sun
81-82	Plot 1/06, Site 5, linear 030, section 3, NW facing	NW	Sun
83-84	Plot 1/06, Site 5, linear 030, section 4, E facing	Е	Sun
85-86	Plot 1/06, Site 5, linear 030, section 5, W facing	W	Sun
87-88	Plot 1/06, Site 5, linear 030, section 6, E facing	Е	Sun
89-90	Plot 1/06, Site 5, pit 044, S facing section	S	Sun
91-92	Plot 1/06, Site 5, pit 036 N and E facing sections oblique	NE	Sun
	shots from NE		
93-94	Plot 1/06, Site 5, pit 036, S and W facing sections. Oblique	SW	Sun
0.5.0.6	shots from SW		
95-96	Plot 1/06, Site 5, pit 032, E facing section	E	Sun
97-98	Plot 1/06, Site 5, pit 050, E facing section	E	Sun
99-100	Plot 1/06, Site 5, pit 045, NW facing section	NW	Sun
101-102	Plot 1/06, Site 5, pit 048, NE and SE facing section, oblique	E	Sun
102 104	shot from E	117	Com
103-104	Plot 1/06, Site 5, pit 048, NW and SW facing section, oblique shot from W	W	Sun
105-106	Plot 1/06, Site 5, pit 056/065, NE facing section	NE	O/C
107-108	Plot 1/06, Site 5, pit 050/005, NE facing section	SE	O/C
109-110	Plot 1/06, Site 5, pit 061 SE facing sections  Plot 1/06, Site 5, pit 069, W facing section	W	O/C
111-112	Plot 1/06, Site 5, pit 063, S facing section	S	O/C
113-114	Plot 1/06, Site 5, linear 030, section 7, longitudinal, N	N	O/C
113-114	facing	11	0/0
115-116	Plot 1/06, Site 5, linear 059, N-facing, longitudinal section	NE	O/C
117-118	Plot 1/06, Site 5, linear 059, SE facing section	SE	O/C
119-120	Plot 1/06, Site 5, pit 071, W facing section	W	O/C
121-122	Plot 1/06, Site 5, pit 074, NE facing section	NE	Rain
123-124	Plot 1/06, Site 5, pit 076, SE facing section	SE	O/C
125-126	Plot 1/06, Site 5, pit 076, SW facing section	SW	O/C
127-128	Plot 1/06, Site 5, pit 076, NW facing section	NW	O/C
129-130	Plot 1/06, Site 5, pit 076, NE facing section	NE	O/C
131-132	Plot 1/06, Site 6, southern part, general post-excavation shot	N/A	O/C
133-134			
133-13-	Plot 1/06, Site 6, southern part, general post-excavation shot	N/A	O/C
135-136	Plot 1/06, Site 6, southern part, general post-excavation shot Plot 1/06, Site 6, southern part, general post-excavation shot	N/A N/A	O/C O/C

Number	Description	From	Conditions
139-140	Plot 1/06, Site 5, pit 087, NW facing section	NW	O/C
141-142	Plot 1/06, Site 5, pit 065, post-excavation	SE	O/C
143-144	Plot 1/06, Site 5, post hole 067, post excavation	SE	O/C
145-146	Plot 1/06, Site 5, pit 056, post-excavation	NW	O/C
147-148	Plot 1/06, Site 5, linear 079, NW facing section	NW	O/C
149-150	Plot 1/06, Site 5, pit 076, post-excavation	NW	O/C
151-152	Plot 1/06, Site 5, pit 076, post-excavation	SE	O/C
153-154	Plot 1/06, pit 076, post-excavation	SW	O/C
155-156	Plot 1/06, Site 5, general post-excavation shots	N/A	N/A
157-158	Plot 1/06, Site 5, general post-excavation shots	N/A	N/A
159-160	Plot 1/06, Site 5, general post-excavation shots	N/A	N/A
161-162	Plot 1/06, Site 5, general post-excavation shots	N/A	N/A
163-164	Plot 1/13, Site 8, pit 004, NE facing section	NE	Sun
165-166	Plot 1/13, Site 8, pit 006, SE facing section	SE	Sun
167-168	Plot 1/13, Site 5, pit 008, NW facing section	NW	Sun
169-170	Plot 1/13, Site 8, pit 010, E facing section	Е	Sun
171-172	Plot 1/13, Site 8, pit 012, NW facing section	NW	Sun
173-174	Plot 1/13, Site 8, pit 014, E facing section	E	Sun
175-176	Plot 1/13, Site 8, pit 016, N facing section	N	Sun
177-178	Plot 1/13, Site 8, pit 018, E facing section	Е	Sun
179-180	Plot 1/13, Site 8, general post-excavation shot	N/A	N/A
181-182	Plot 1/13, Site 8, general post-excavation shot	N/A	N/A
183-184	Plot 1/09, Site 7, curvilinear 007, section 1, SW facing	SSW	O/C
185-186	Plot 1/09, Site 7, curvilinear 007, section 2, NNE facing	NNE	O/C
187-188	Plot 1/09, Site 7, curvilinear 007, section 3, SW facing	SW	O/C
189-190	Plot 1/09, Site 7, curvilinear 007, section 4, E facing	Е	Sun
191-192	Plot 1/09, Site 7, curvilinear 007, section 5, W facing	W	O/C
193-194	Plot 1/09, Site 7, curvilinear 007, section 6, W facing	W	O/C
195-196	Plot 1/09, Site 7, curvilinear 007, section 7, NW facing	NW	O/C
197-198	Plot 1/09, Site 7, curvilinear 007, section 8, SE facing	SE	O/C
199-200	Plot 1/09, Site 7, curvilinear 007, section 9, N facing	N	O/C
201-202	Plot 1/09, Site 7, curvilinear 007, section 10, SSW facing	SSW	O/C
203-204	Plot 1/09, Site 7, pit 017, NW facing section	NW	O/C
205-206	Plot 1/09, Site 7, pit 011, SE facing section	SE	O/C
207-208	Plot 0/02, Site 3, pit 008, W facing section	W	Sun
209-210	Plot 0/02, Site 3, pit 006, SW facing section	SW	O/C
211-212	Plot 0/02, Site 3, pit 012, W facing section	W	O/C
213-214	Plot 0/02, Site 3, pit 010, SW facing section	SW	O/C
215-216	Plot 0/02, Site 3, pit 004, S facing section	S	O/C
217-218	Plot 0/02, Site 3, pit 002, N facing section	N	O/C
219-220	Plot 1/09, Site 7, 019, S facing section	S	O/C
221-222	Plot 1/09, Site 7, pit 015, S facing section	S	O/C
223-224	Plot 1/09, Site 7, curvilinear 007, general post-excavation	N/A	N/A
225.226	shot	NT/A	NT/A
225-226	Plot 1/09, Site 7, curvilinear 007, general post-excavation	N/A	N/A
227 229	shot Plot 1/09, Site 7, curvilinear 007, general post-excavation	NT/A	NI/A
227-228	shot	N/A	N/A
220 230	Plot 1/09, Site 7, curvilinear 007, general post-excavation	N/A	N/A
229-230	shot	1N/A	1N/ FA
231-232	Plot 1/13, Site 8, pit 020, W facing section	W	O/C
231-232	Plot 1/13, Site 8, pit 020, W facing section  Plot 1/13, Site 8, pit 022, NW facing section	NW	O/C
235-234	Void	N/A	Void
237-238	Plot 1/06, (B->B), Site 1, pit 002, SW facing section	SW	Sun
237-238	Plot 1/06 (B->B), Site 1, pit 002, SW facing section (wrong	NE	Sun
237-240	plot number on board)	1112	Suii
241-242	Plot 1/06 (B->B), Site 2, pit 006, NE facing section	NE	Sun
271-272	1 10t 1/00 (D / D), one 2, pit 000, 14L facing section	111	Juli

Number	Description	From	Conditions
243-244	Plot 1/06 (B->B), Site 2, pit 008, SW facing section	SW	O/C
245-246	Plot 1/06 (B->B), Site 2, pit 008, SE facing section	SE	O/C
247-248	Plot 0/02, pit 016, N facing section	N	Sun
249-250	Plot 1/06 (B->B), Site 2, pit 008, NE facing section	N/E	Sun
251-252	Plot 1/06 (B->B), Site 2, pit 008, NW facing section	NW	Sun
253-254	Plot 1/06 (B->B), Site 2, pit 014, S facing section	S	Sun
255-256	Plot 1/06 (B->B) Site 2, pit 006, post-excavation	N	O/C
257-258	Plot 1/06 (B->B), Site 2, general post-excavation shots	N/A	N/A
259-260	Plot 1/06 (B->B), Site 2, general post-excavation shots	N/A	N/A
261-262	Plot 1/06 (B->B), Site 2, general post-excavation shots	N/A	N/A
263-264	Plot 1/06 (B->B), Site 2, pit 008 post-excavation	SE	O/C
265-266	Plot 1/06 (B->B), Site 2, pit 014, post-excavation	NW	O/C
267-268	Photo of stone-lined drain in field 1/08, drain 0.4m x 0.25m	S	O/C
269	Photo of shallow pit [1/09/01] section	S	Rain
270	Photo of shallow pit [1/09/03] section	S	Rain
271	View of rig and furrow in 1/09	N	O/C
272	View of section through furrow in 1/09	S	O/C
273-278	Saddle quern post-excavation	N/A	N/A

### Digital (Camera 2)

Number	Description	From	Conditions
1	3/14 (002) section - general	W	N/A
2	3/14 (002) section - detail	W	N/A
3-9	Section 3, working shots	N/A	
10-12	3/08 bedrock - general shots	Various	N/A
13	Working shot - benching	S	N/A
14-15	Working shot 3/07	S	N/A
16-17	Pit 3/07 - [002], pre-ex	SW	N/A
18	Pit 3/07 - [002] section	S	N/A
19-22	3/05 working shots	Various	N/A
23	Benching - working shot	N/A	N/A
24-30	Detailed cleaning of suspected feature	Е	N/A
31	Working shot, 3/05	S	N/A
32-33	Section of 3/01 - [002]	NW	N/A
34-35	General views of banked track 3/02 and 3/03	W	N/A
36	Section of banked track 3/02 and 3/03	W	N/A
37-38	Working shots - 3/02 and 3/03	Various	N/A
39-40	Soil profile section, 3/03	W	N/A
41	Working shot, 3/03	N/A	N/A
42	Working shot, 2/08	N/A	N/A
43	Pit 2/08 - [002], pre-ex	N	N/A
44	Pit 2/08 - [002], section	W	N/A
45	Box drain (cundy) in 3/07	NE	N/A
46	2/08 - [005], section	N	N/A
47	2/05 - [002], section	Е	N/A
48-49	Working shots, 2/05	Various	N/A
50-52	2/08 - [007], section	N	N/A

#### **APPENDIX 4: Drawings Register**

### Plot 1/06 Burnhervie to Broadsea (Site 1 and Site 2)

No.	Sheet	Description	Scale
	No.		
1	1	Site 1, Pit 004, NW-facing section	1:10
2	1	Site 1, Pit 002, SE-facing section	1:10
3	1	Site 1, plan	1:25
4A	2	Site 2, plan	1:50
4B	3	Site 2, plan	1:50
5	4	Site 2, pit 014, SW-facing section and NW-facing section	1:10
6	5	Site 2, pit 006, NE-facing section	1:10
7	5	Site 2, pit 008, SW-facing section	1:10
8	5	Site 2, pit 008, NE-facing section	1:10
9	5	Site 2, pit 008, E-facing section and W-facing half sections	1:10

#### Plot 0/02 Broadsea to Old Rayne (Site 3)

No.	Sheet	Description	Scale
	No.		
10	6	Site 3, plan	1:50
11	6	Site 3, pit 006, west-facing section	1:10
12	6	Site 3, pit 010, SW-facing section	1:10
13	6	Site 3, pit 012, west-facing section	1:10
14	6	Site 3, pit 014, west-facing section	1:10
15	6	Site 3, pit 008, NW-facing section	1:10
16	6	Site 3, pit 004, SW-facing section	1:10
17	6	Site 3, pit 002, north-facing section	1:10

#### Plot 1/02 Broadsea to Old Rayne (Site 4)

No.	Sheet	Description	Scale
	No.		
18	7	Site 4, plan	1:50
19	8	Site 4, pit 017, plan	1:20
20	8	Site 4, pit 017, north-facing section	1:10
21	8	Site 4, pit 017, east-facing section	1:10
22	8	Site 4, pit 010, south to north profile	1:10

#### Plot 1/06 Broadsea to Old Rayne (Site 5 and Site 6)

No.	Sheet	Description	Scale
	No.		
23A	9	Site 5, plan	1:50
23B	10	Site 5, plan	1:50
23C	11	Site 5, plan	1:50
24	12	Site 5, pit 056 and pit 065, SE-facing section	1:10
25	12	Site 5, pit 076 and linear 079, SE and SW facing half sections	1:10
26	12	Site 5, pit 076, NW and NE-facing half sections	1:10
27	12	Site 5, linear 079, NW-facing section	1:10
28	12	Site 5, post-hole 005, profile	1:10
29	13	Site 5, post-hole 005, east-facing section	1:10
30	14	Site 6, linear 003, SW-facing section	1:10
31	14	Site 6, linear 003, plan of slot	1:20
32	14	Site 5, linear 030, section 1, west-facing	1:10

No.	Sheet No.	Description	Scale					
33	14	Site 5, linear 030, section 2, north-facing	1:10					
34	14	Site 5, linear 030, section 3, NW-facing	1:10					
35	14	Site 5, linear 030, section 4, SE-facing	1:10					
36	14	Site 5, linear 030, section 5, NW-facing	1:10					
37	14	Site 5, linear 030, section 6, SE-facing	1:10					
38	14	Site 5, linear 030, section 7, NE-facing						
39	15	Site 5, pit 061, south-facing section	1:10					
40	15	Site 5, pit 063, south-facing section	1:10					
41	15	Site 5, pit 069, north-facing section	1:10					
42	15	Site 5, pit 071, west-facing section	1:10					
43	15	Site 5, pit 074, NE-facing section	1:10					
44	15	Site 5, pit 059, SE-facing section	1:10					
45	16	Site 5, post-ex plan overlay	1:50					
46	17	Site 5, pit 048, west-facing section	1:10					
47	17	Site 5, pit 048, north-facing section	1:10					
48	17	Site 5, pit 048, east-facing section	1:10					
49	17	Site 5, pit 048, south-facing section	1:10					
50	17	Site 5, linear 059, NE-facing section	1:10					
51	18	Site 5, pit 044, south-facing section	1:10					
52	18	Site 5, pit 032, SE-facing section	1:10					
53	18	Site 5, pit 032, plan	1:20					
54	18	Site 5, pit 036 and pit 039, north and west-facing sections	1:10					
55	18	Site 5, pit 036, east and south facing sections	1:10					
56	19	Site 5, pit 083, east-facing section	1:10					
57	19	Site 5, pit 087, NW-facing	1:10					
58	19	Site 5, post-hole 067 and pit 065, west to east profile	1:10					
59A	20	Site 6, plan	1:100					
59B	21	Site 6, plan	1:100					
59C	22	Site 6, plan	1:100					
60	23	Site 6, pit 016, east-facing section	1:10					
61	23	Site 6, pit 022, NE-facing section	1:10					
62	23	Site 6, pit 022, plan	1:20					
63	23	Site 6, pit 016, plan	1:20					
64	23	Site 6, linear 025, SW-facing section	1:10					
65	23	Site 6, pit 028, SE-facing section	1:10					
66	23	Site 6, pit 028, plan	1:20					
67	24	Site 6, pit 007, east-facing section	1:10					
68	24	Site 6, pit 007, plan	1:20					
69	24	Site 6, pit 009, west-facing section	1:10					
70	24	Site 6, pit 009, plan	1:20					
71	24	Site 6, pit 011, east-facing section	1:10					
72	24	Site 6, pit 011, plan	1:20					
73	24	Site 6, pit 020, SE-facing section	1:10					
74	24	Site 6, pit 020, plan	1:20					

## Plot 1/09 Broadsea to Old Rayne (Site 7)

No.	Sheet	Description	Scale
	No.		
75	25	Site 7, plan	1:50
76	26	Site 7, section 3 of circular ditch, west-facing	1:10
77	26	Site 7, section 4 of circular ditch, east-facing	1:10
78	26	Site 7, section 5 of circular ditch, west-facing	1:10
79	26	Site 7, section 6 of circular ditch, SE-facing	1:10
80	26	Site 7, section 7 of circular ditch, SE-facing	1:10

No.	Sheet	Description	Scale
	No.		
81	26	Site 7, section 8 of circular ditch, NW-facing	1:10
82	26	Site 7, section 10 of circular ditch, SW-facing	1:10
83	26	Site 7, section 1 of circular ditch, SW-facing	1:10
84	26	Site 7, section 9 of circular ditch, NE-facing	1:10
85	26	Site 7, section 2 of circular ditch, NE-facing	1:10
86	26	Site 7, pit 011, SE-facing section	1:10
87	26	Site 7, pit 019, west-facing section	1:10
88	27	Site 7, pit 017, NW-facing section	1:10
89	27	Site 7, pit 001, south-facing section	1:10
90	27	Site 7, pit 003, south-facing section	1:10
91	27	Site 7, pit 011, SE-facing section	1:10

## Plot 1/13 Broadsea to Old Rayne (Site 8)

No.	Sheet	Description	Scale
	No.		
92A	28	Site 8, plan	1:50
92B	29	Site 8, plan	1:50
93	30	Site 8, pit 004, north-facing section	1:10
94	30	Site 8, pit 006, SE-facing section	1:10
95	30	Site 8, pit 008, NW-facing section	1:10
96	30	Site 8, pit 018, NE-facing section	1:10
97	30	Site 8, pit 010, east-facing section	1:10
98	30	Site 8, pit 012, NW-facing section	1:10
99	30	Site 8, pit 020, west-facing section	1:10
100	30	Site 8, pit 014, east-facing section	1:10
101	30	Site 8, pit 016, north-facing section	1:10
102	30	Site 8, pit 022, NW-facing section	1:10

## **Broadsea to Old Rayne (Isolated Features)**

No.	Sheet	Description	Scale
	No.		
103	31	Plot 1/02, pit 016, NNE-facing section	1:10
104	31	Plot 1/02, pit 016, plan	1:20
105	32	Plot 1/10, pit 002, east-facing section	1:10
106	32	Plot 1/10, pit 002, south-facing section	1:10
107	32	Plot 1/10, pit 002, plan	1:20
108	32	Plot 1/10, pit 004, plan	1:20
109	32	Plot 1/10, pit 004, east-facing section	1:10
110	33	Plot 2/05, linear 002, east-facing section	1:10
111	33	Plot 2/08, linear 007, north-facing section	1:20
112	33	Plot 2/08, linear 007, plan	1:20
113	34	Plot 3/14, pit 002, plan	1:20
114	34	Plot 3/14, pit 002, west-facing section	1:10
115	34	Plot 3/07, pit 002, plan	1:20
116	34	Plot 3/07, pit 002, NE-facing section	1:10
117	34	Plot 2/08, pit 002, plan	1:20
118	34	Plot 2/08, pit 002, west-facing section	1:10

## **APPENDIX 5: Finds quantification**

Plot/Site	Context	Sample	Find type	No	Wt (g)	Notes	Date
0/02 (Site 3)	005	22	Bone	5	0.1	calcined	
0/02 (Site 3)	013	20	Bone	2	0.1	calcined	
0/02 (Site 3)	013	20	Shell	2	0.1		
0/02 (Site 3)	017		Glass	1	0.9	pale green window	pmed+
0/02 (Site 3)	017		Pot	2	2.4	pearlware base,	19th c
(1.1.1)						redware body	
1/02 (Site 4)	007		Pot	1	0.5	spongeware body	19th c
1/06 (Site 6)	004	10	Bone	1	0.1	tooth frag	
1/06 (Site 6)	004	10	Slag?	6	1.4	includes 1 spherical	
,						droplet (or shotgun	
						pellet?)	
1/06 (Site 6)	004		Glass	1	16.0	pale green window	mod
1/06 (Site 5)	006	11a	Lithic	1	0.1	honey-coloured flint	
1/06 (Site 6)	014		Lithic	1	0.4	honey-coloured flint	
1/06 (Site 6)	027	1	Bone	3	0.1	calcined	
1/06 (Site 6)	027	1	Ceramic	1	0.7	clay pipe bowl frag	
1/06 (Site 6)	027	1	Burnt	20	6.0		
1,00 (5100 0)	027		material	0	0.0		
1/06 (Site 6)	027	1	Lithic?	7	1.5	quartz & flint	
1/06 (Site 6)	029	2	Lithic?	6	0.7	quartz & flint	
1/06 (Site 5)	031	3	Slag?	6	2.5	1	
1/06 (Site 5)	031	3	Pot	5	27.0	body sherds	LBA
1/06 (Site 5)	042	5	Bone	2	0.1	calcined	2211
1/06 (Site 5)	042	5	Fired clay	1	0.1	abraded fine red frag	
1/06 (Site 5)	046	4	Slag?	6	1.4	uoruuvu riite rea riug	
1/06 (Site 5)	046	4	Lithic	1	0.4	honey-coloured flint	
1/06 (Site 5)	049	11	Bone	1	0.1	calcined	
1/06 (Site 5)	049	11	Lithic	5	1.2	honey-coloured flint	
1/06 (Site 5)	049		Pot	1	4.1	body sherds	LBA
1/06 (Site 5)	057		Pot	1	50.2	bowl rim?	LBA
1/06 (Site 5)	060		Pot	4	21.2	body sherds	LBA
1/06 (Site 5)	062		Lithic?	1	3.6	flint, but abraded,	
(2222)						prob from gravel	
1/06 (Site 5)	066	6	Lithic?	2	0.1	flint?	
1/06 (Site 5)	066		Stone	1	=	large saddle quern	preh
1/06 (Site 5)	072	8	Slag	4	0.2	includes 2 spherical	ı
(111)						droplets (or shotgun	
						pellets?)	
1/06 (Site 5)	Surface		Lithic?	1	6.2	chunk, 1 surface	
, ,						polished?	
1/06 B-B	003		Lithic	1	2.4	yellow flint ?piercer,	
(Site 1)						notched	
1/06 B-B	007		Pot	4	24.8	body sherds	LBA
(Site 2)							
1/06 B-B	007	14	Pot	5	18.1	body sherds	LBA
(Site 2)							
1/06 B-B	007	14	Mortar	1	4.0	v hard lime mortar	
(Site 2)							
1/06 B-B	009-013	15	Bone	5	0.3	calcined	
(Site 2)							
1/06 B-B	008-013	15	Lithic?	1	0.1	honey-coloured flint,	
(Site 2)						tiny	
1/06 B-B	009-013		Bone	23	5.0	abraded, calcined	
(Site 2)			<u> </u>			animal bone	
1/06 B-B	015		Pot	2	35.2	body sherds	LBA

Plot/Site	Context	Sample	Find type	No	Wt (g)	Notes	Date
(Site 2)							
1/09 (Site 7)	002	16	Bone	2	0.1	calcined	
1/09 (Site 7)	002	16	Slag?	3	1.5		
1/09 (Site 7)	002	16	Fired clay	4	2.0	poss pot, but no surfaces	preh?
1/09 (Site 7)	008	17	Fe	6	2.7	includes small hobnail	
1/09 (Site 7)	008	17	Slag?	7	3.4		
1/09 (Site 7)	008	17	Lithic?	1	0.1	black, tiny	
1/09 (Site 7)	008		Glass	1	1.0	green bottle	pmed+
1/09 (Site 7)	008		Glass	1	1.3	green window with grozed edge	pmed
1/09 (Site 7)	008		Lithic	1	0.1	red flint	
1/09 (Site 7)	008		Pot	3	2.2	refined whiteware	19th c
1/09 (Site 7)	008		CBM	1	2.4	abraded, no surfaces	pmed?
1/10	003	18	Slag?	6	0.7		
1/10	003	18	Lithic	1	0.1	honey-coloured flint, tiny	
1/10	003		Stone	2	296	worked granite?	
1/10	003		Lithic?	1	2.7	quartz chunk	
1/10	005	19	Bone	1	0.1	calcined	
1/10	005	19	Slag?	1	0.4		
1/10	005	19	Lithic	9	3.4	honey-coloured flint	
1/13	005	12	Lithic?	1	0.1	honey-coloured flint,	
						tiny	
1/13 (Site 8)	007	13	Slag	3	8.8		
1/13 (Site 8)	007	13	CBM	2	0.2	2 thin flakes, prob pantile	
2/08	004	24	Slag?	4	0.7		

# **APPENDIX 6: Sample Register**

No.	Context	Fill of	Plot	Description	Volume
1	027	N/A	1/06	Fill of linear [003]	50L
2	029	028	1/06	Fill of pit [028]	50L
3	031	030	1/06	Fill of ditch [030]	50L
4	046/047	045	1/06	Fill of pit [045]	15L
5	042	044	1/06	Fill of pit [044]	30L
6	066	065	1/06	Fill of pit [065]	50L
7	062	061	1/06	Fill of pit [061] – pit backfill	15L
8	072/073	071	1/06	Fill of pit [071]	50L
9	078/081/082	076	1/06	Fill of pit [076] – mix of backfill	50L
				material (078 & 082, and stone	
				layer at base of pit [081]	
10	004	003	1/06 (Site 6)	Fill of linear feature [003]	50L
11	049	048	1/06 (Site 5)	Fill of pit [048]	50L
11A	006	005	1/06 (Site 5)	Fill of possible post-hole [005]	15L
12	005	004	1/13 (Site 8)	Fill of pit	15L
13	007	006	1/13 (Site 8)	Fill of pit	15L
14	007	006	1/06 B-B (Site 2)	Fill of pit	50L
15	009-013	008	1/06 B-B (Site 2)	Fill of pit – mixed deposits	50L
16	002	001	1/09 (Site 7)	Fill of shallow pit [001]	50L
17	008	007	1/09 (Site 7)	Fill of circular ditch [007]	50L
18	003	002	1/10 (N/A)	Fill of pit	50L
19	005	004	1/10 (N/A)	Fill of pit	50L
20	013	012	0/02 (Site 3)	Fill of pit	15L
21	009	008	0/02 (Site 3)	Fill of pit	15L
22	005	004	0/02 (Site 3)	Fill of pit	30L
23	011	010	1/02 (Site 4)	Fill of pit	30L
24	004	002	2/08 (N/A)	Fill of pit	10L

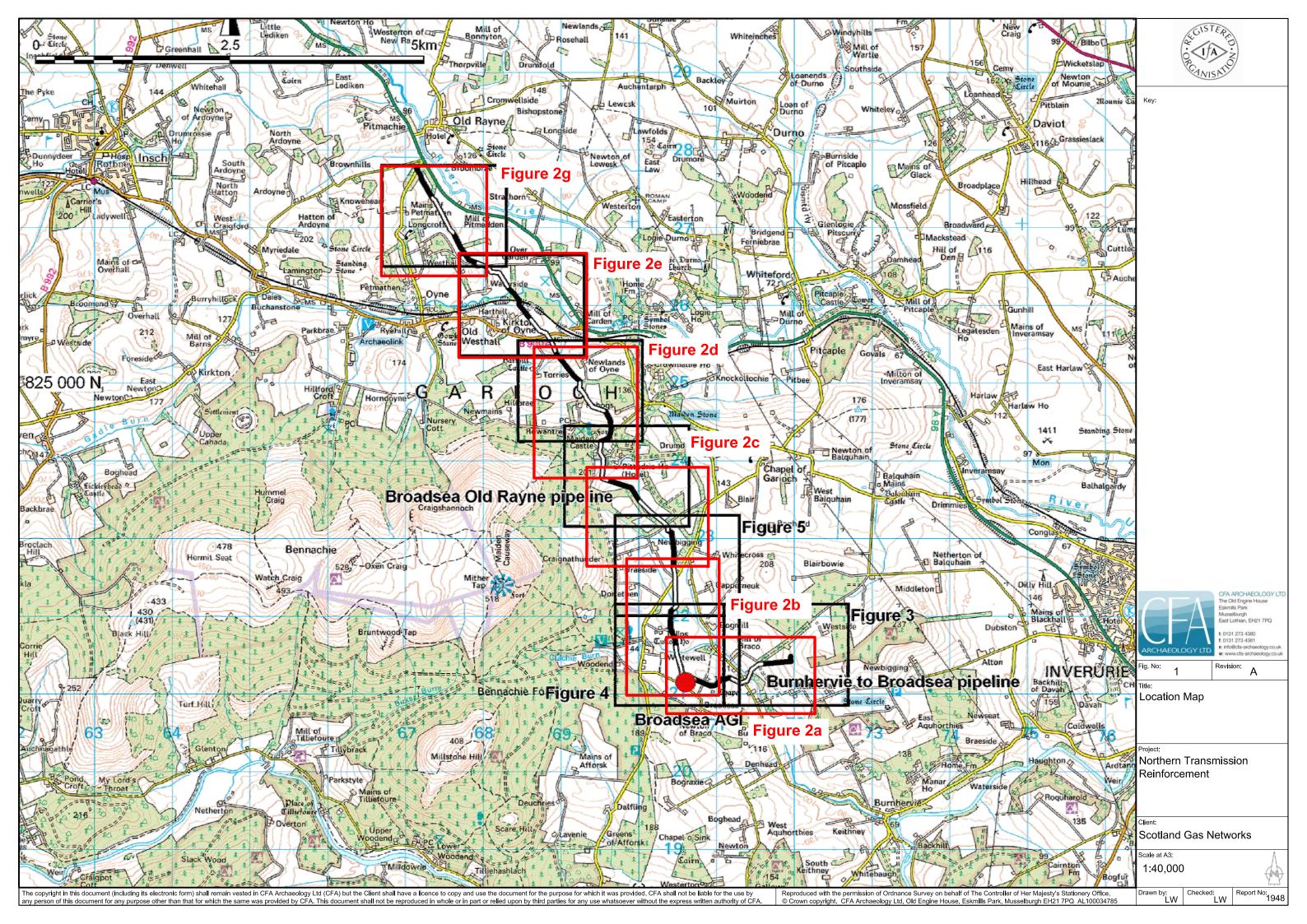
# **APPENDIX 7: Composition of Carbonised Plant Remains**

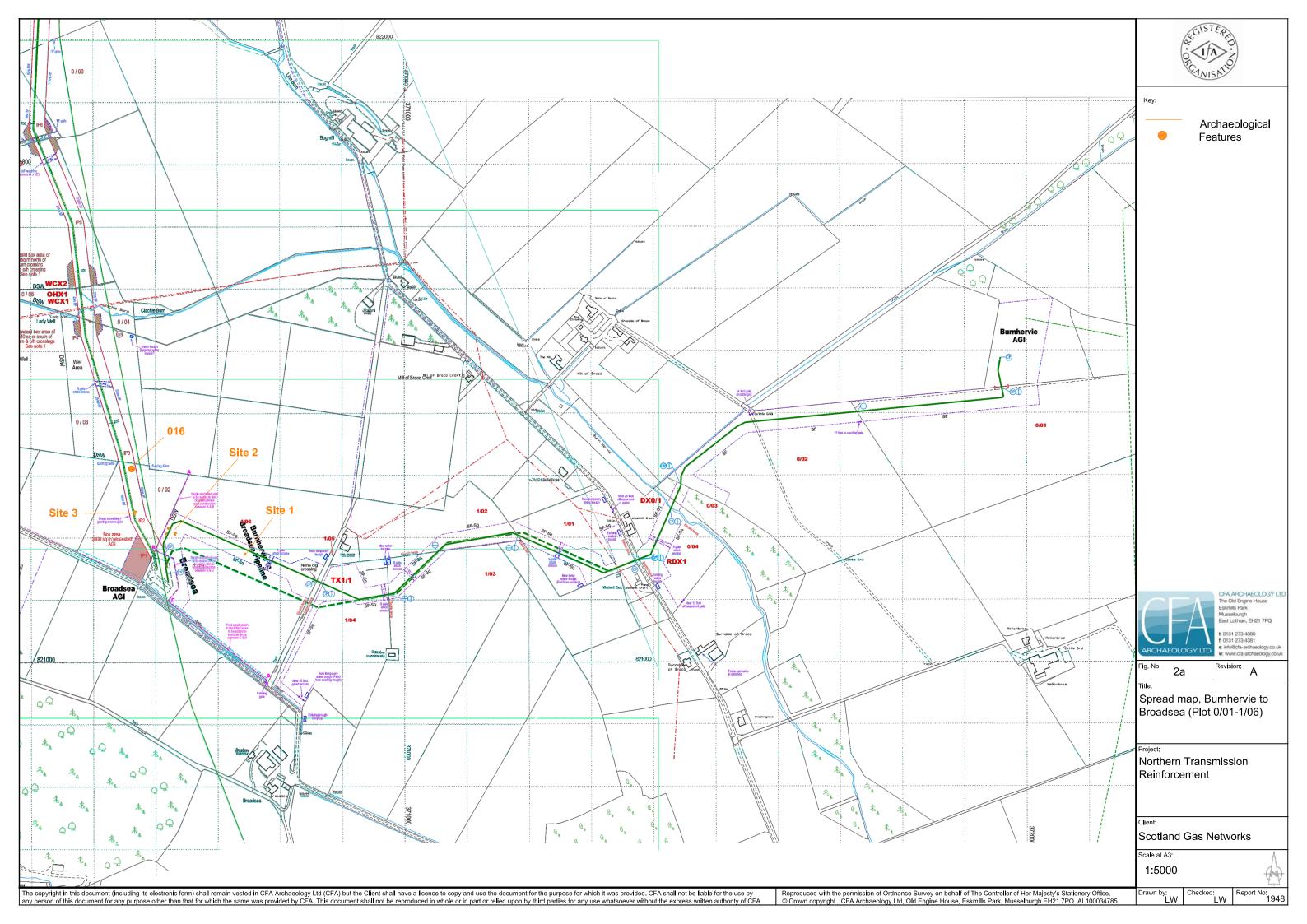
Context No.	Sample No.	Plot	Context description	Total Flot vol (ml)	Approx. Flot Fraction Scanned	Cereal grain	Chaff	Weed seeds	Hazelnut shell	Other plant remains	Charcoal	Heather Charcoal	Peat	Comments
SITE 2		•					•	•					•	
007	14	1/06	Buried Soil	150	1/2	+			+	+ (rhizome)	++++			Barley +
009-13	15	1/06 B-B	Fill of pit 008	200	1/4	+		+	+	+++ (amorphous plant material)	++++	+		Barley + Lapathifolium/persi caria x 1
SITE 3	1		_		T		ı							
013	20	0/02	Fill of pit 012	100	All				+		++++ (all oak)			
009	21	0/02	Fill of pit 008	50	All	+					++			cf Barley indet x 1 Cereal indet x 1
005	22	0/02	Fill of pit 004	150	1/4	+			+	++ (amorphous plant material)	+++			Barley + cf Oat +
011	23	0/02	Fill of pit 011	100	All	Archaeo	logically	sterile	•	,				•
SITE 5		•				_								
031	3	1/06	Fill of ditch 030	100	All				+		++			
046 / 047	4	1/06	Fill of pit 045 – mix of pit fll	50	All						++			
042	5	1/06	Fill of pit 044	20	All				+		+			
066	6	1/06	Fill of pit 065	100	All	+		+	+		++			1 x cereal indet 1 x indeterminate weed seed 2 x small frags of hazelnut shell
062	7	1/06	Fill of pit 061 – pit backfill	20	All					+ (seeds of peas)	+			Pisium satvium (field pea) x 3 Tiny frags of charcoal
072 / 073	8	1/06	Fill of pit 071	100	All	Archaeo	logically	sterile	•	•				•
078 / 081 / 082	9	1/06	Fill of pit 076 – mix of backfill material (078 & 082, and stone layer at base of pit	150	All	+	+	+	+	+ (rhizome)	+++			Barley + Oat + Rhizomes +

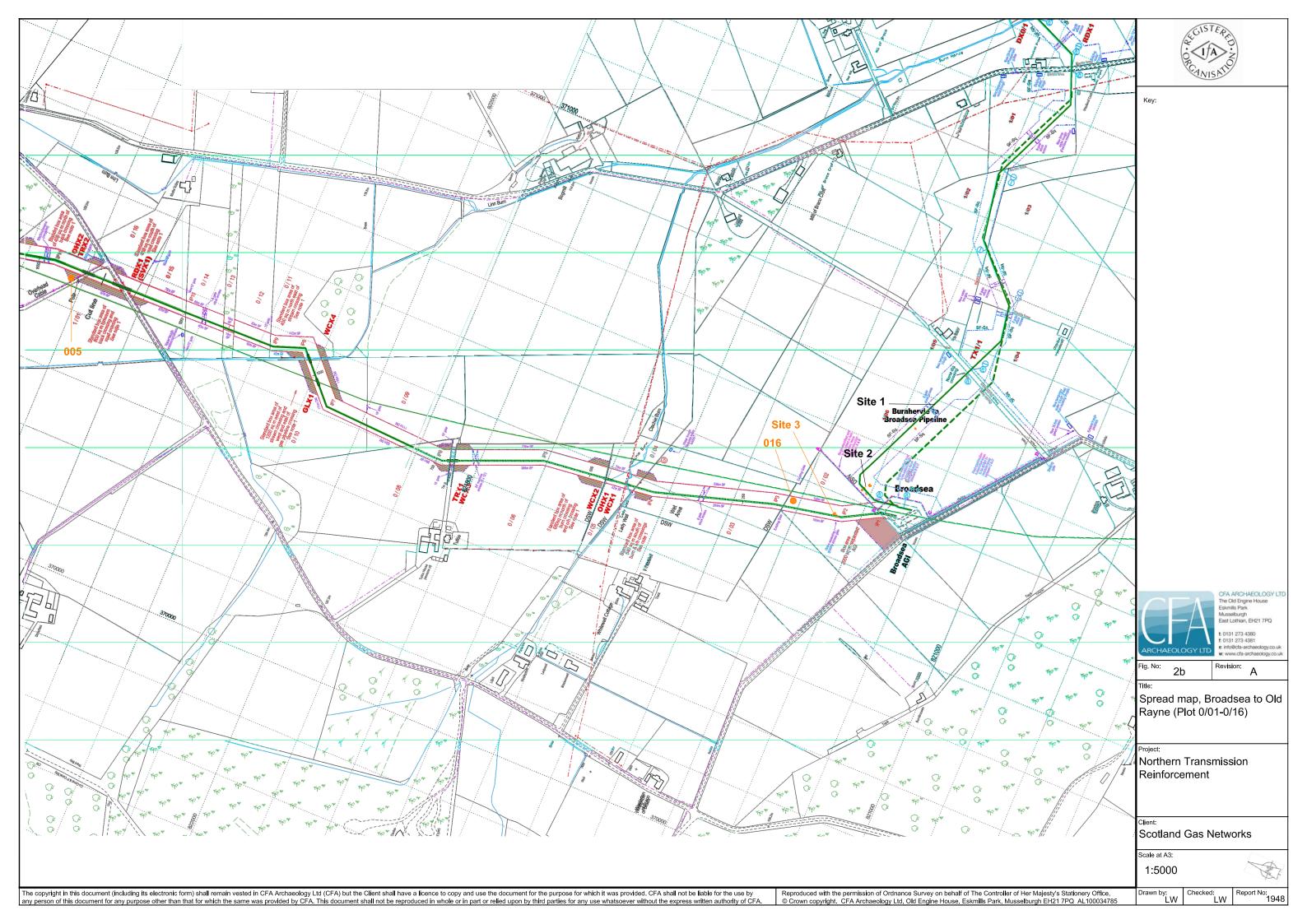
Context No.	Sample No.	Plot	Context description	Total Flot vol (ml)	Approx. Flot Fraction Scanned	Cereal grain	Chaff	Weed seeds	Hazelnut shell	Other plant remains	Charcoal	Heather Charcoal	Peat	Comments
			081											
049	11	1/06	Fill of pit 048	100	All	+			+					Barley + Oat +
006	11A	1/06	Fill of possible post-hole 005	50	All		+							Emmer/einkorn spiklet fork x 1
SITE 6						_						•		-
027	1	1/06	Fill of linear 003	50	All	+								2 x cereal indet
029	2	1/06	Fill of pit 028	100	All				+		+++			Principally oak charcoal
004	10	1/06	Fill of linear feature 003	50	All				+		+			Tiny frags of charcoal
SITE 7						_						•		•
002	16	1/09	Fill of shallow pit 001	1000	1/32						++++ (all oak)			
008	17	1/09	Fill of circular-ditch 007	100	All	++			+		++		+	Barley ++ Oat + Some elongated embryos on barley - some germinated grain
SITE 8		l.		·								<u> </u>		18
005	12	1/13	Fill of pit 004	200	1/4						++++			
007	13	1/13	Fill of pit 006	40	1/4						+			Tiny frags of charcoal and cinders
ISOLATI	ED FEATU	RES		,				•						•
003	18	1/10	Fill of pit 002	20	All					+ (rhizome)			+	
005	19	1/10	Fill of pit 004	100	1/2				+++					
004	24	2/08	Fill of pit 002	20	All					+ (rhizome)				

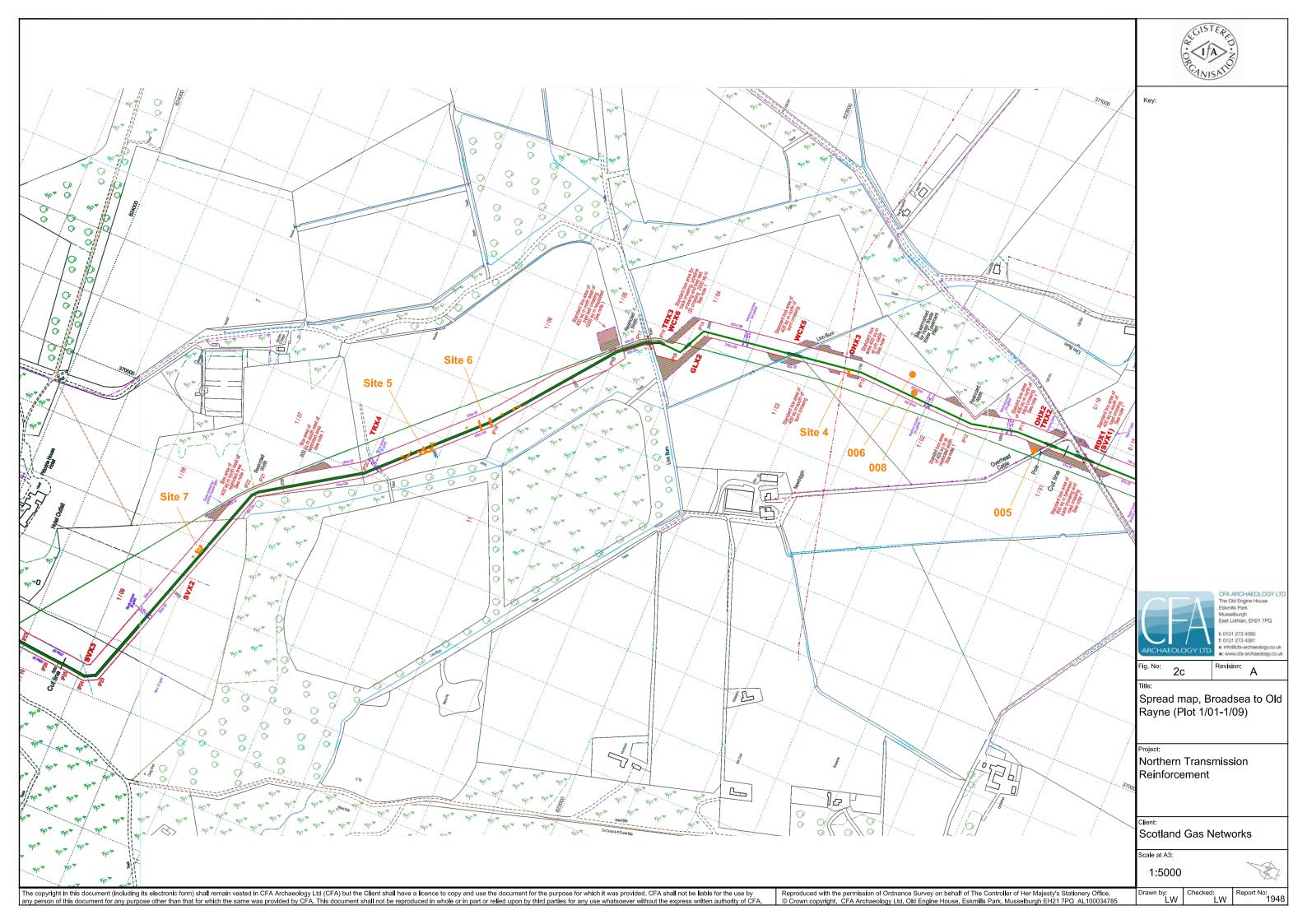
# **APPENDIX 8: Discovery and Excavation in Scotland Entry**

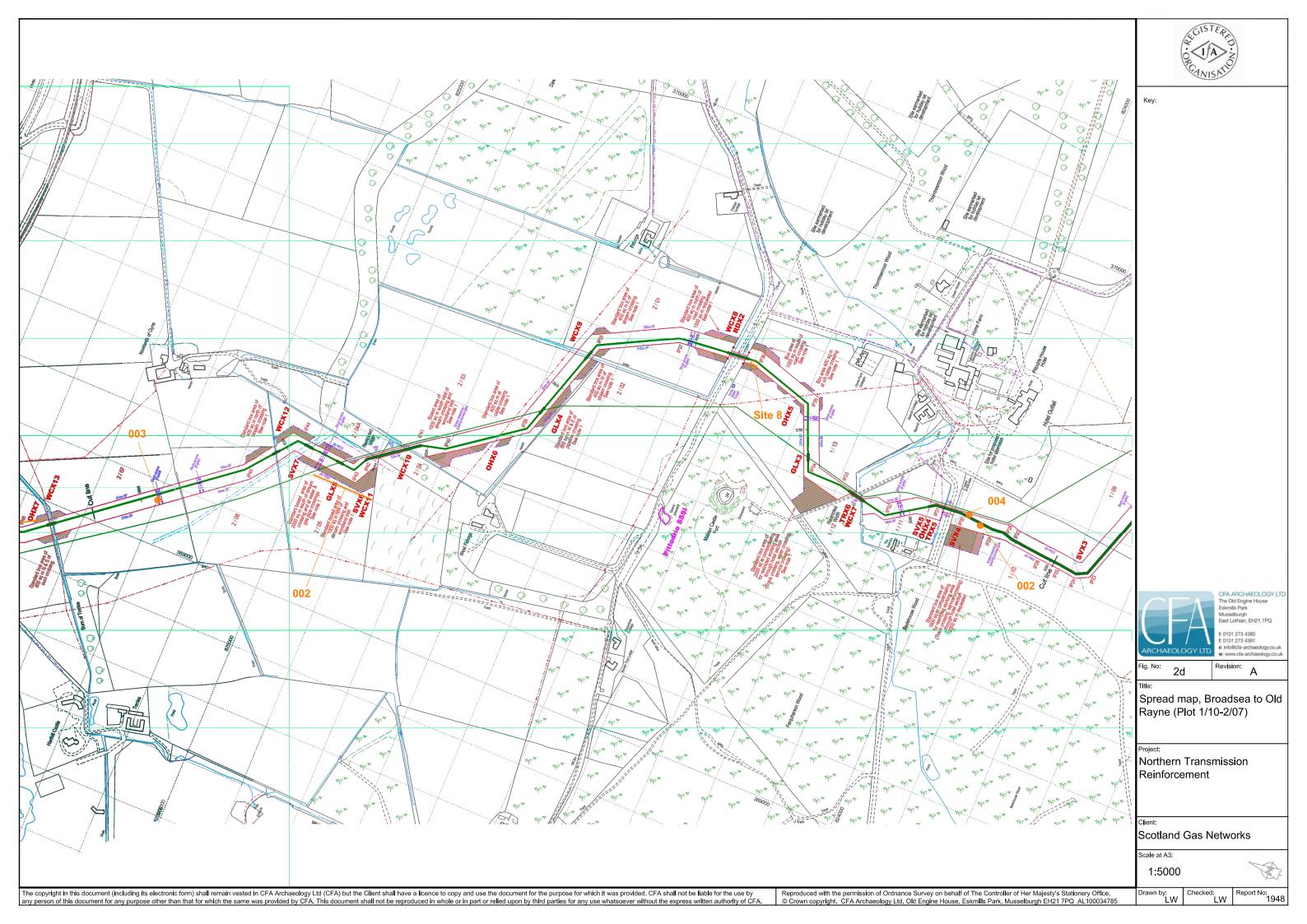
LOCAL AUTHORITY:	Aberdeenshire Council
PROJECT TITLE/SITE NAME:	Northern Transmission Reinforcement, High Pressure Natural Gas Pipeline, Burnhervie to Old Rayne Near Inverurie, Aberdeenshire
PROJECT CODE:	NORO
PARISH:	Chapel of Garioch
NAME OF CONTRIBUTOR:	Magnus Kirby
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Archaeological Works
NMRS NO(S):	None
SITE/MONUMENT TYPE(S):	Prehistoric pits
SIGNIFICANT FINDS:	Prehistoric pottery/lithics/saddle quern
NGR (2 letters, 8 or 10 figures)	NJ 71958 21488 to NJ67158 27767
START DATE (this season)	April 2011
END DATE (this season)	June 2011
PREVIOUS WORK (incl. DES ref.)	N/A
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	A programme of archaeological works was carried out during the construction of a high pressure natural gas pipeline running from Burnhervie to Old Rayne. The programme of works consisted of a watching brief undertaken during soil stripping operations and subsequent mitigation works relating to the features uncovered.  The watching brief led to the discovery of eight concentrations of archaeological features (Site 1 to Site 8) as well as a number of isolated features. These largely consisted of pits and linear ditches of varying sizes. Material recovered from several of the sites suggests that these concentrations of features are likely to be prehistoric in date, while some did not contain any datable artefacts. Finds uncovered included prehistoric pottery, lithics and a saddle quern.
PROPOSED FUTURE WORK:	Archive report
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	Scotland Gas Networks
ADDRESS OF MAIN CONTRIBUTOR:	Old Engine House, Eskmills Business Park, Musselburgh, EH21 7PQ
EMAIL ADDRESS:	Info@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	National Monuments Record for Scotland (NMRS) Aberdeenshire Council SMR

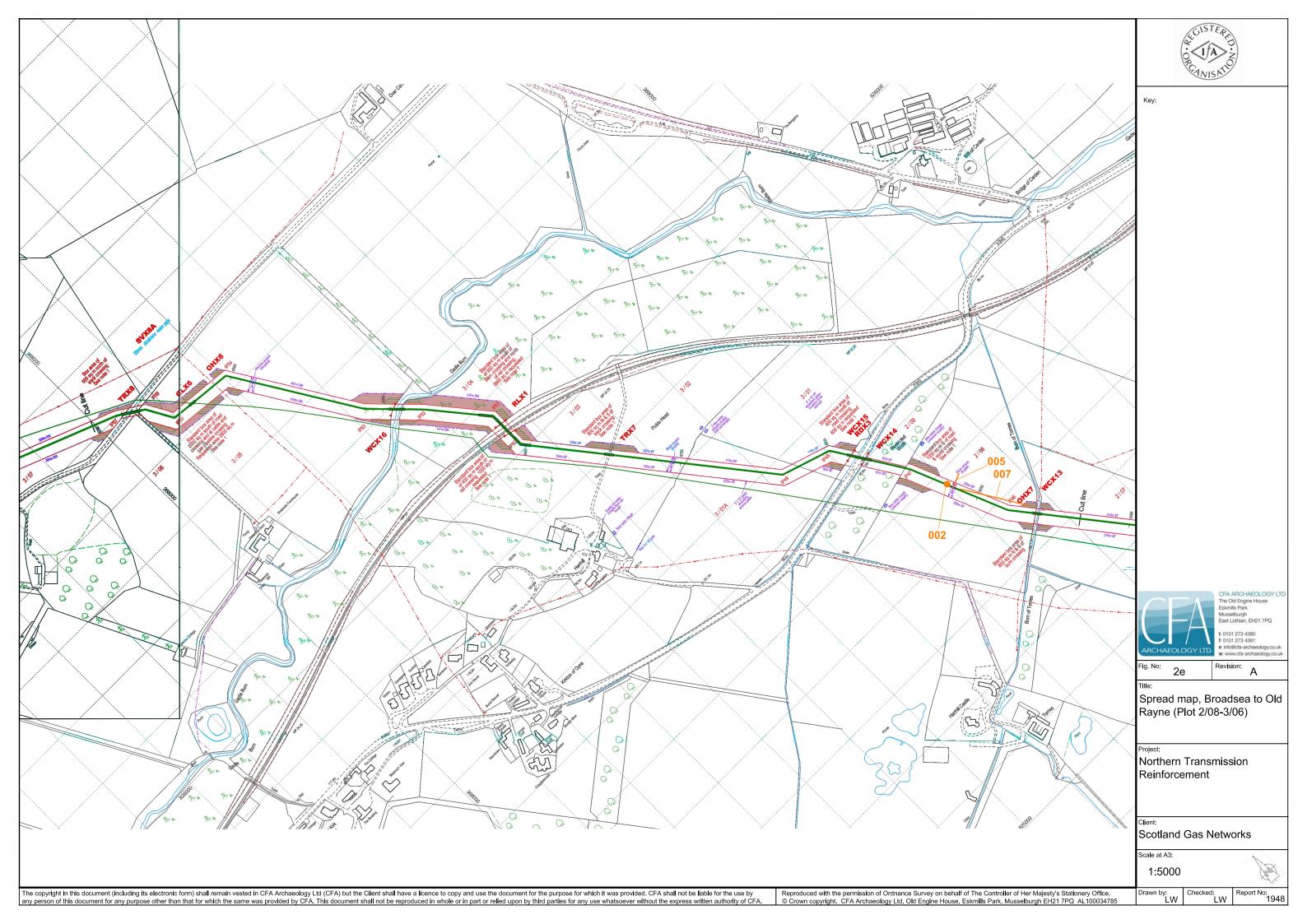


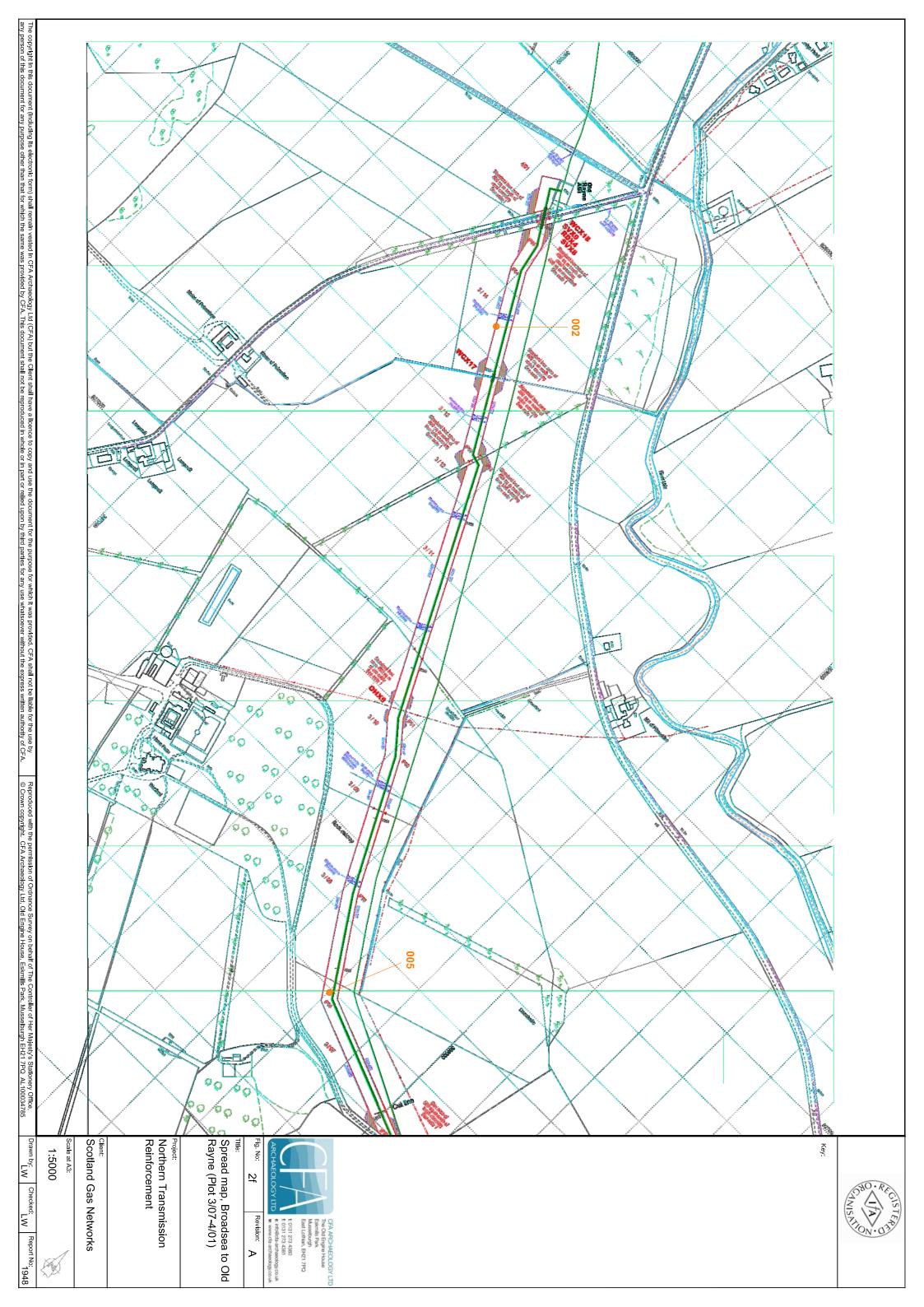




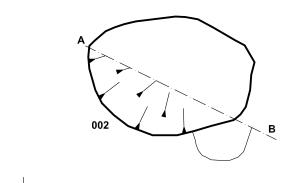




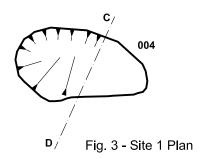












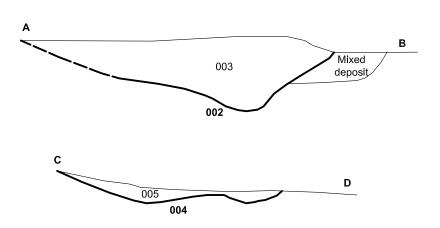
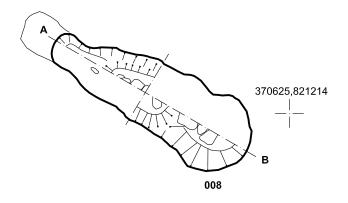
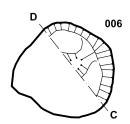


Fig. 4 - Site 1 Sections

Key:	Key:		Fig No: 3-4		Th	CFA ARCHAEOLOGY LTD The Old Engine House		
			Plans and sect	ions of Site	1		M <sub>Ea</sub>	skmills Park usselburgh ast Lothian, EH21 7PQ 0131 273 4380
Scale at A4:	Plans- 1:20		Project:			ARCHAEOL	OCY ITD 6:	0131 273 4381 info@cfa-archaeology.co.uk www.cfa-archaeology.co.uk
	Sections - 1:10		Northern Trans	smission Re	inforcement	Drawn by: LW	Checked: LW	Report No: 1948







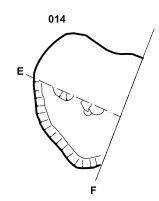
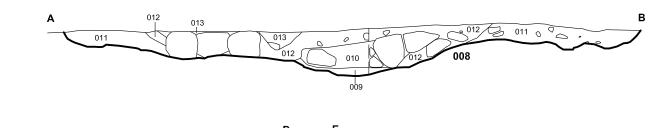


Fig. 5 - Site 2 Plan



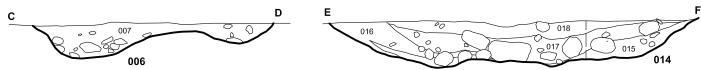


Fig. 6 - Site 2 Sections

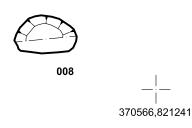
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			Title: Plans	and sec	tions of Site	2	
Scale at	Plans- 1:100 Sections - 1:40		Project: North	ern Trans	smission Re	inforcement	ARCHAEC

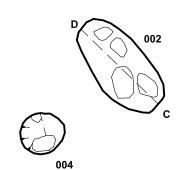


wn by: Checked: Report No: 1948











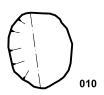
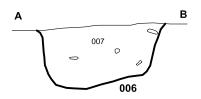


Fig. 7 - Site 3 Plan



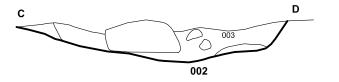




Fig. 8 - Site 3 Sections

Title: Plans and sections of Site 3  Scale at A4: Project:								
Plans and sections of Site 3  Scale at A4:  Project:	vorks	Client: Scotland Gas Networks	Revision:	<sup>o:</sup> 7-8	Λ			Key:
		3	ections of S	ans and so	N)	4		
Sections - 1:20 Northern Transmission Reinforcement	Dr.						Plans- 1:50	Scale at A4:

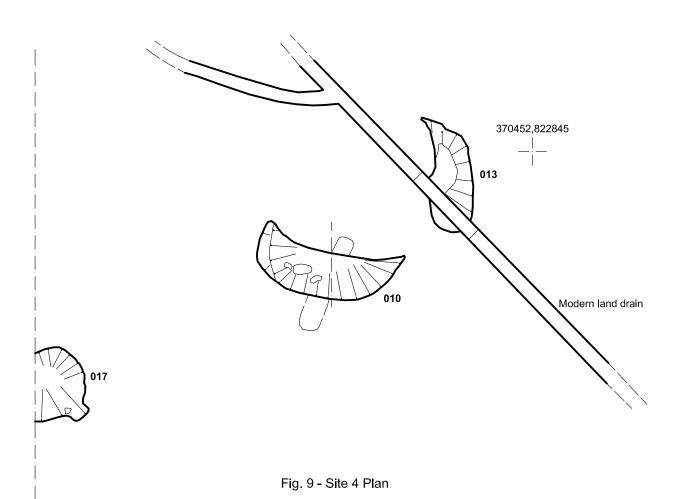


t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk Report No: 1948

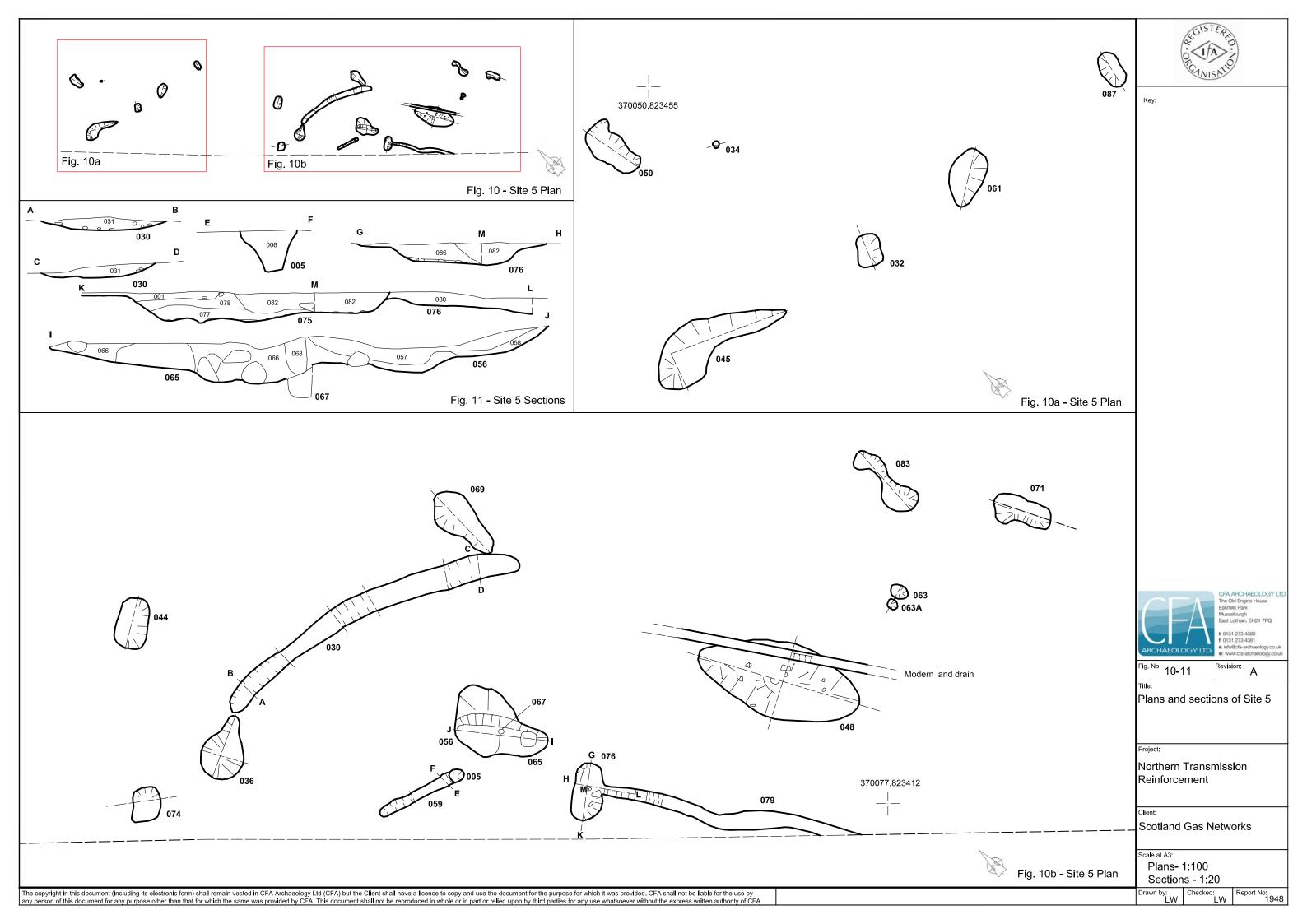
Drawn by: Checked:

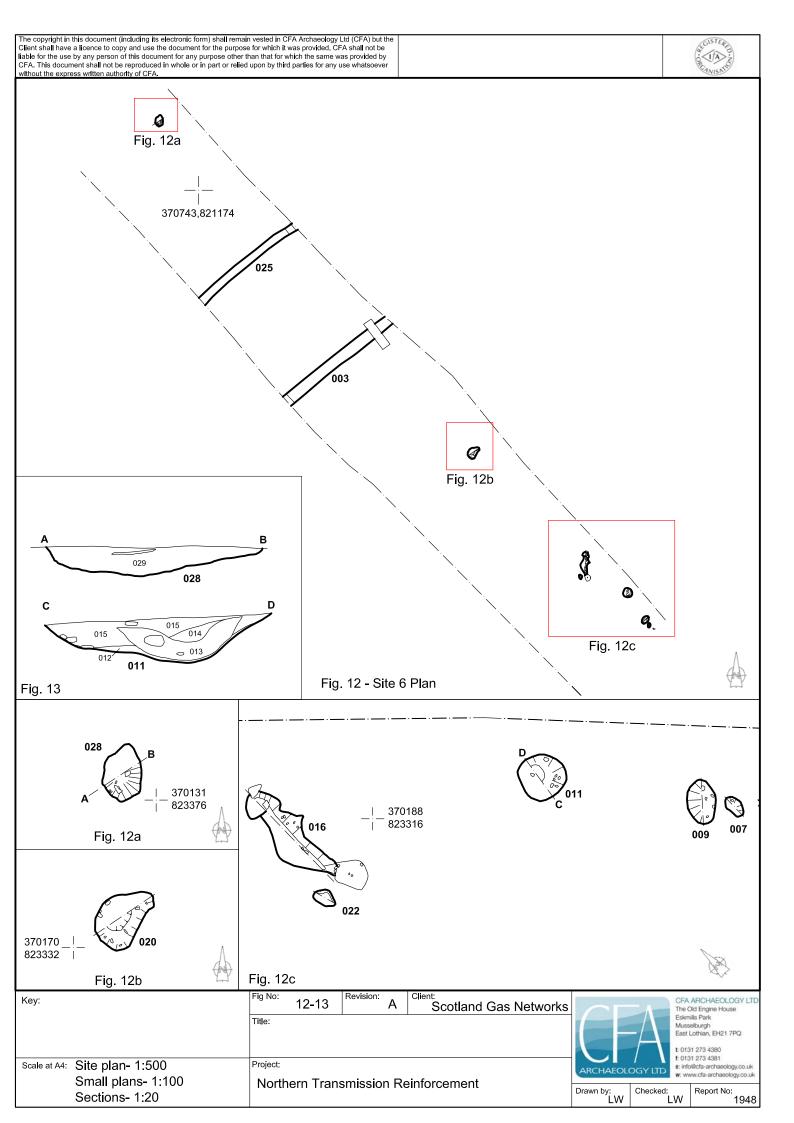


Report No: 1948



key.	Fig No: 9	Revision: A	Client: Scotland Gas Networks	C	The C Eskm Muss	ARCHAEOLOGY LTD Old Engine House vills Park selburgh Lothian, EH21 7PQ
Scale at A4:	Project:		ARCHAEOL	f: 013 e: info	81 273 4380 81 273 4381 o@cfa-archaeology.co.uk ww.cfa-archaeology.co.uk	
Plans- 1:80	Northern Trans	Smission Re	Drawn by:	Checked:	Report No: 1948	





Checked: Report No: Northern Transmission Reinforcement Drawn by:

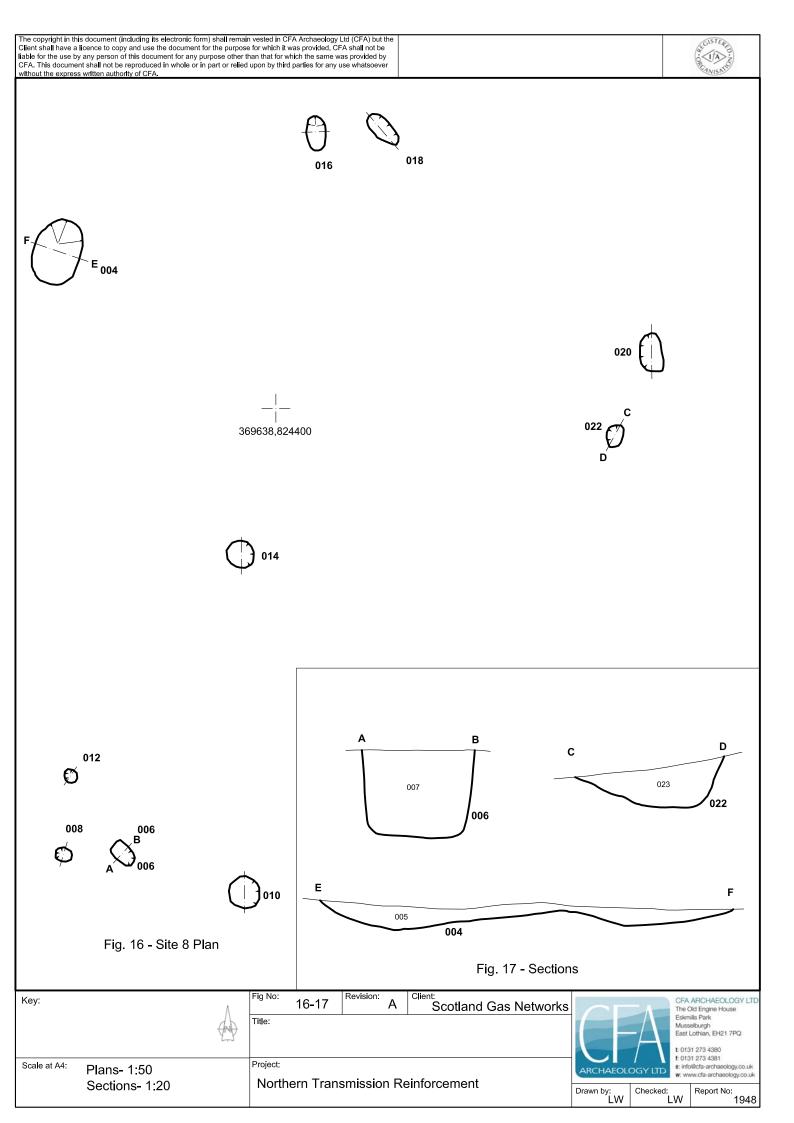






Fig. 18 - Site 2, with Bennachie in background



Fig. 19 - Site 4, with Bennachie in background

Key:	Fig. No: 18-19 Revision: A Client: Scotland Gas Networks	The Old Engine House
	Title:	Eskmills Park Musselburgh East Lothian, EH21 7PQ
Scale at A4:	Project:	t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk
	Northern Trasmission Reinforcement	Drawn by: LW   Checked: LW   Report No: 1948







Fig. 20 - Site 5, pit 056/065 showing saddle quern on left hand side

Fig. 21 - Site 5, pit 076 post-excavation showing cobble lining



Fig. 22 - Site 5, pre-excavation

Кеу:	Fig. No: 20-22 Revision: A Client: Scotland Gas Networks	The Old Engine House
	Title:	Eskmills Park Musseburgh East Lothian, EH21 7PQ
Scale at A4:	Project:	t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk
	Northern Trasmission Reinforcement	Drawn by: LW Checked: LW Report No: 1948





Fig. 23 - Site 7, post-excavation



Fig. 24 - Site 8, post-excavation

Кеу:	Fig. No: 23-24 Revision: A Client: Scotland Gas Networks	The Old Engine House
	Title:	Eskmills Park Musseiburgh East Lothian, EH21 7PQ
Scale at A4:	Delat	t: 0131 273 4380 f: 0131 273 4381 e: info@cta-archaeology.co.uk
Scale at A4.	Project:	ARCHAEOLOGY LTD  #: www.cfa-archaeology.co.uk
	Northern Trasmission Reinforcement	
	Troition Tracinical Training Common	Drawn by:   W   Checked:   W   Report No: 1948