Knowe of Swandro

Data Structure Report: 2023 Field Season

Julie M. Bond and Stephen J. Dockrill

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Unless otherwise stated, all photographs are by Stephen J Dockrill. Illustrations (plans, sections, and artefacts) have been commissioned from Alan R Braby.

1. Excavations at the Knowe of Swandro, Rousay

Stephen J. Dockrill and Julie M. Bond

1.1 Introduction

The Knowe of Swandro on the Orcadian island of Rousay (HY 3753 2966) consists of an eroding mound with obvious stone inclusions, which is situated immediately behind a boulder beach on the Bay of Swandro (Figures 1 and 2). On its eastern flank is the Norse settlement site known as Westness, excavated by the Norwegian archaeologist Sigrid Kaland in the 1970s (Kaland 1993). Described by RCAHMS in 1946 as 'the much disturbed remains of a stony mound', the Knowe has generally been considered to be the remains of an Iron Age broch. At the top of the mound a crescent-shaped ridge faced towards the sea, which looked like the disturbed remains of a curving wall, surrounding a hollow. Ordnance Survey records suggested it had been investigated at some point in the past but there is no published record. The mound may have been disturbed during earlier investigations; the inference that Radford had excavated here (or indeed on the Westness houses) now seems unsupported by any evidence other than a passing reference (Wilson and Hurst 1964, 240) though it may be that Grant investigated the mound around the time he excavated the longhouse in 1946 (n.a. 1949). Assessment over several seasons (2010–17) has shown that this mound is actually the focus of a multiperiod settlement and that the roundhouse is a much-modified structure.

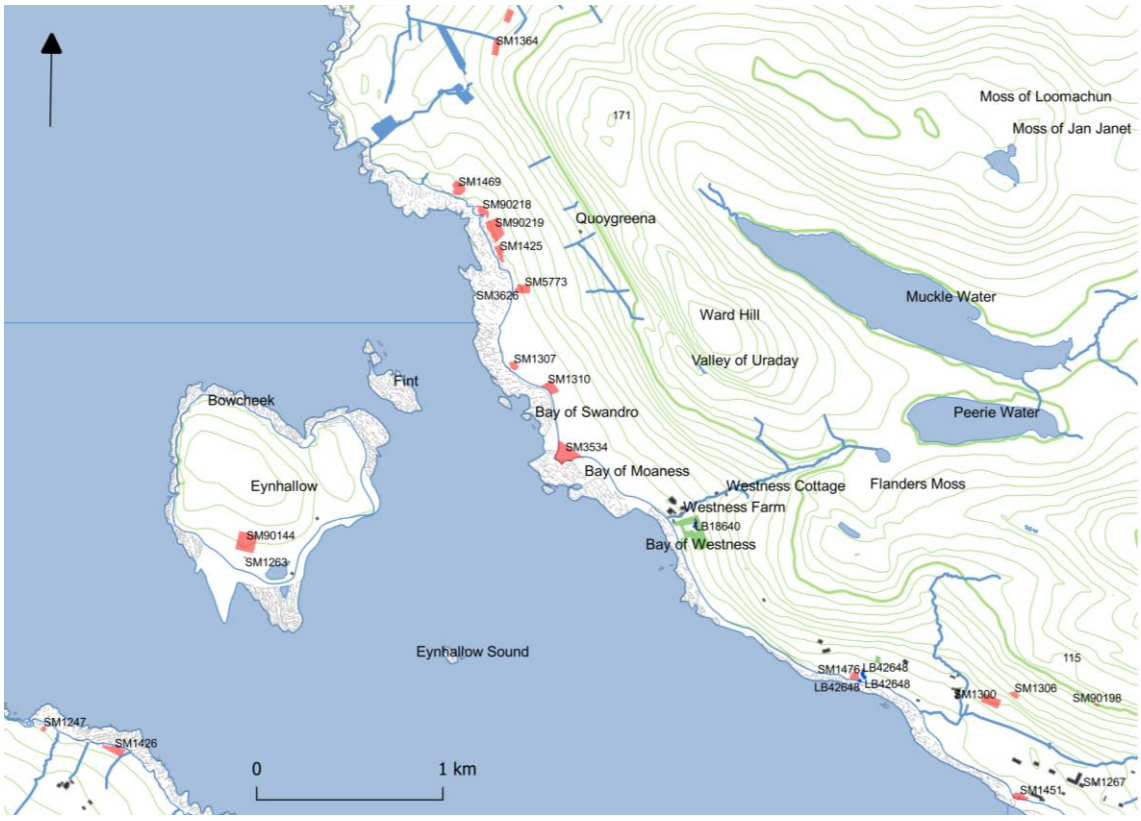

Figure 1: Location Map showing the position of the Knowe of Swandro on the southwest coast of Rousay. Contains OS data © Crown copyright and database right 2020 (L.D. Brown)

Due to the vulnerability of the remains at Swandro, work so far has concentrated on the investigation of the beach area of this site. This research builds on the site and landscape studies undertaken at Tofts Ness, Sanday (1984–88) by Dockrill (Dockrill *et al.* 2007a), Old Scatness and

Jarlshof (1995–2006) in Shetland by Dockrill and Bond (Dockrill *et al.* 2015; Dockrill *et al.* 2010; Dockrill and Bond 2009) and the Viking Unst project (2006–08) by Bond (Bond 2013).

The investigation of this eroding site takes place within a research framework designed to answer specific research questions. The work also demonstrates the relevance of the disappearing record and has enabled a greater understanding of the nature and rate of the threat by assessing the site over a number of seasons. The long settlement history or 'biography' revealed by the erosion enables the study of human behaviour in this particular place through major changes in culture, climate and environment.

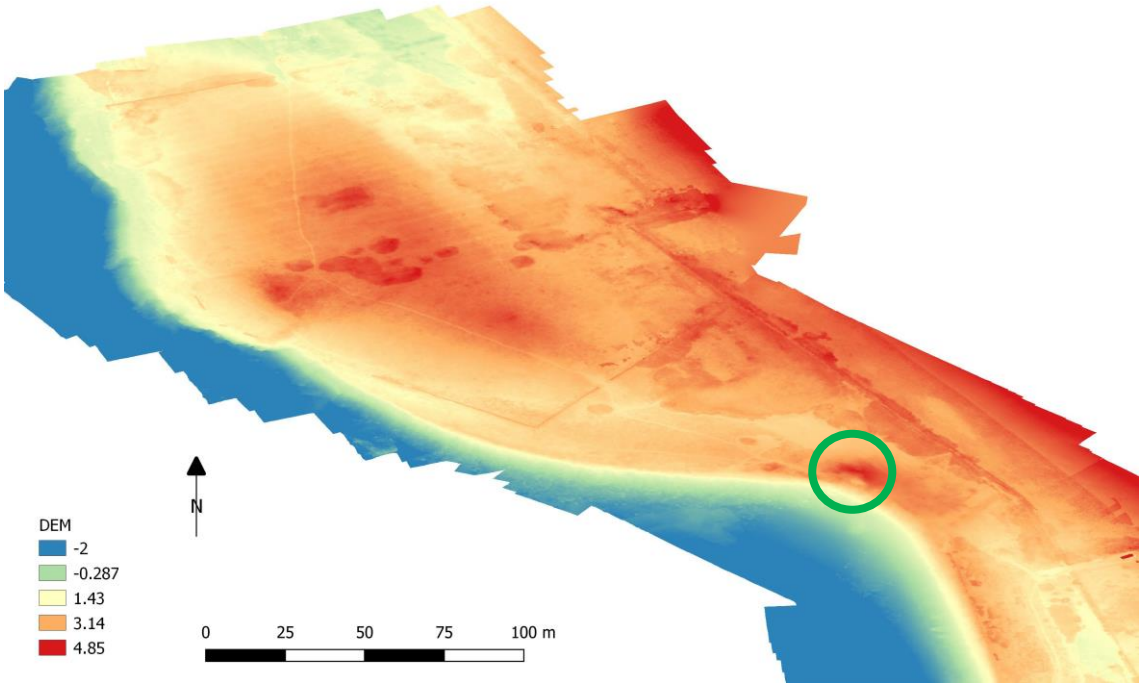

Figure 2: The location of the Knowe of Swandro (green circle) within its immediate landscape setting (Digital Elevation Model created by L. Kemp)

The key research questions for the project are:

- *What is the extent of the Iron Age settlement and how does this change over time?*
  The understanding of the Iron Age settlement sequence in cultural and economic terms by the excavation and sampling of these truncated archaeological surfaces will provide a current and informed understanding of people living on Rousay in the Iron Age and how this changes over time (ScARF 2012, 62).
- *What is the stratigraphic association with the Norse settlement and what does this tell us about the nature of the Pictish/Viking cultural interface?*
  The taking of existing estates by Scandinavian settlers is still a contentious issue in terms of its nature and date. Only with more detailed excavation will it be possible to gain an insight into this important transition on what increasingly seems to be a vital type site for this transition period.

Swandro is an unusual site in that although coastal erosion sites have been identified and studied on numerous occasions, the survival of deposits of this nature beneath an active boulder beach had not previously been recognised. This has implications both for future survey and for heritage management. The excavation is providing an important understanding of the erosion processes that take place on a beach such as this and the nature of the archaeological survival in these

conditions. It is also enabling the development of appropriate recording methods. This work has wider implications as it will help to inform the future management of other such sites.

1.2 Re-evaluation of the project following the 2018 field season

The complexity of the later stratigraphic Iron Age sequences within the monumental stone structure identified in the 2018 season (year one of the original Historic Environment Scotland project) has necessitated a revised approach (see below and Table 5). The archaeological deposits excavated in 2018 are rich in both animal bone and pottery, and have demonstrated the survival of a previously unsuspected complex later structural sequence involving a roundhouse form with later Pictish sub-divisions (date at this stage is suggested by both constructional form and artefacts). The Iron Age component did not survive to any degree under the boulder beach, however the sequences on the landward side provide the opportunity to examine the complex development of the Iron Age roundhouse and also provides context to the truncated Iron Age remains found under the boulder beach to the southeast of the casement wall of the cairn.

The examination of the substantial Iron Age roundhouse and its later modification will help provide a detailed chronology for the building sequence, allowing a fine-grained chronology to be constructed (in line with the Iron Age Scotland: ScARF Panel Report recommendation 5.12; ScARF 2012). The addition of Dr Cathy Batt and archaeomagnetic dating of the potential hearths surviving in the later Pictish building and underlying roundhouse is seen as being essential. The integration of archaeomagnetic and AMS radiocarbon dates and the use of Bayesian statistical analysis at Old Scatness (Dockrill *et al.* 2015) has demonstrated that producing a refined chronology can add value to the artefact and ecofact assemblages of such complex sites (as suggested in the Iron Age Scotland: ScARF Panel Report recommendation 9.6: ScARF 2012).

1.2.1 Redefined research aim and objectives

Aim

The excavation and analysis of the partly eroded Knowe of Swandro, representing a monumental structure with evidence of casement walling suggestive of a Neolithic chambered cairn with an inserted Iron Age roundhouse and later Pictish structural sequences.

Research objectives

1. An understanding of the complexity of the stratigraphic sequence. The determination of the biography of the site will enable an understanding of development and usage of the monument. The identification and recording, with three-dimensional methods, of construction, use, modification, reuse and abandonment events will enhance our understanding of the human activities forming the archaeological record and the interrelationships between Neolithic monumental structures and their re-use in the Iron Age. This objective will inform on the research recommendations outlined in Section 5.12 of the Iron Age Scotland: ScARF Panel Report (ScARF 2012).
2. An understanding of the monumental structure and its casement walling, passage and internal cells. This monument does not correspond to broch architectural features. The exposed seaward section sealed by the boulder beach is heavily eroded with no cultural material surviving. The presence of the top of a corbelled cell or chamber suggests the presence of a possible side chamber like that of a chambered cairn.
3. To provide an absolute chronology for the Knowe of Swandro. The integration of the archaeological sequence with a scientific chronology derived from an enhanced dating

programme based on AMS radiocarbon dating and the integration of archaeomagnetic dating of hearths that may be contained in the later Iron Age occupational sequence.

4. An understanding of the cultural and economic development of a long Iron Age occupational sequence suggested by the archaeological sequence revealed in 2018. The truncated (eroded) sequence recorded in the evaluation phase of the Iron Age deposits suggests that the site predates the first century BC and the finding of a 9th century AD coin of Eanred from the passage indicates a long and complicated sequence. This period sees important social and economic changes as evidenced at Old Scatness, Shetland (Dockrill *et al.* 2010; 2015). This is also seen in the architectural development and forms an important area still requiring greater understanding (ScARF 2012, 62).
5. An understanding of the formation processes and effects of the tidal and storm damage in order to enhance future management strategies. The digital and three-dimensional recording of the structural elements of the site to provide a legacy for future research and as a local resource, in the face of the inevitable erosion of the monument.

1.3 Evidence derived from the evaluation, 2010–17

The evaluative investigation 2010–17 defined the extent and nature of the archaeological survival (structural elements and the survival and degradation of *in situ* midden deposits) on the eroding beach. This work has provided an important understanding of the erosion processes and the archaeological survival and has enabled the development of recording methods applicable to this project. This work will help to inform the future management of other such sites across the North Atlantic.

The evaluation demonstrated that the seaward deposits surviving at the lowest of the sea-cut erosion terraces have suffered from extensive erosion with much of the midden material having been washed away and the larger structural stones having been smoothed by the movement of water and beach material. Approximately 40–50% of the central roundhouse is at present subject to attack by the sea. The seaward casement walling (approximately 30% of the structure) is in particular subject to erosion from tidal movement where the effects of scouring and suction of softer archaeological deposits occurs, leaving *in situ* only the more substantial stone elements. Even some of the large facing stones have been lost to the sea; this is obvious when a comparison is made between the survival of remains uncovered in 2012 and again in 2015. Much of the core material retained by the lower casement wall faces has also been lost over this period. Work in 2016 evaluated the survival of the south-eastern outer casement face and its relationship with a single-faced wall that butts the outer circumference wall of the chambered cairn. Excavation revealed that the sea had scoured out all of the original deposits that would have been associated with these structural features. The area to the south-east (seaward) side had been infilled by mixed redeposited beach material. A number of redeposited large boulders were in this area. These appeared to be embedded, having been thrown down with some force presumably by high-energy wave action during storm events. It was hoped that an old ground surface might have survived but the scouring effect of the sea had removed all evidence of this.

The passage through the casement walling located on the upper beach terrace appears to have been disturbed in the Pictish or Viking period. The upper infill contained a styca of Eanred of Northumbria (a ninth-century king) and this, plus the butchery marks seen on animal bone from the top of the passage fill which had been made with a large metal blade, supports the possibility that the infill might be associated with Viking re-organisation of the settlement prior to the later construction of the surviving Norse longhouses.

1.4 The excavation phase

The work in 2018 saw the start of the full excavation of the coastal archaeology at the Knowe of Swandro in advance of its destruction by the sea. This project is facilitated by a grant from Historic Environment Scotland.

Table 1 sets out the original proposed project timeline. The first season of excavation in 2018 (see Bond and Dockrill 2019) revealed a stratigraphic complexity not observed in the parts of the site on the actively eroding beach which were investigated in 2012 and 2015 as part of the evaluation. Instead, the excavation revealed an unsuspected and significant middle and late Iron Age sequence of settlement actually within the monumental structure. This led to an application to Historic Environment Scotland to enable a further excavation season in 2020. However, the appearance of the Covid-19 pandemic in the spring of 2020 and subsequent restrictions on work and travel in 2020 and 2021 meant considerable adjustments to the timetable. Thanks are owed to both Historic Environment Scotland and Orkney Islands Council for allowing flexibility in the timetable for work and funding.

Figure 3 shows the trenches excavated during the investigation phase and the excavations with Table 2 providing more information. Buildings are assigned a 'Structure number', a unique interpretative number that is given to all contexts that appear within or define a building, and these are shown on Figure 3 and explained in the accompanying table, Table 3.

Time period	**Activity**
June – August 2018 (6 week period)	Excavation
Late September 2018 – May 2019	Post-excavation
June – August 2019 (8 week period)	Excavation
Late September 2019 – May 2020	Post-excavation
June – August 2020 (8 week period)	*Excavation – Postponed due to Covid-19 pandemic*
June – August 2021 (8 week period)	*Excavation – Postponed due to Covid-19 pandemic*
June – August 2022	Excavation
September 2022 – March 2023	Post-excavation
June – August 2023	Excavation
September 2023 – March 2024	Post-excavation
June – August 2024	Excavation (subject to permission)
September 2024 – March 2025	Post excavation and preparation for publication

Table 1: Summary of the project's timeline (as of March 2023 and subject to change due to permission and funding)

Area	**Colour on Figure 3**	**Years open**	**Notes**
A	Red	2010–11	
B	Blue	2010–11 / 2013	
C	Green	2012	
D	Yellow	2012 / 2023	Smaller excavation area in 2023
E	N/A	2013–17	Consolidated beach area comprising Areas A, C and D
E	N/A	2018	Now including Area B and Str3 extension
E	Purple	2019	Extended to the NW and SE of the main area
F	N/A	2023	Outside scheduled area; features associated with the Westness longhouse

Table 2: Excavation areas

Figure 3: Plan of the excavated areas annotated with areas (see Table 2) and structure numbers (see Table 3; L.D. Brown)

Structure number	Date	Description
1	Iron Age	Roundhouse
2	Mid to Late Iron Age	
3	Mid Iron Age	'Smithy'
4	Late Iron Age? to Pictish	Orthostatic structure close to cairn wall
5	Mid Iron Age	(sits within north-eastern half of Structure 6)
6	Late Iron Age	Roundhouse
7	Iron Age	Section of wall of large ?Iron Age roundhouse
8	Early Iron Age	Outer cairn wall demonstrating the fullest extent of the circular structure. Roundhouse.

Table 3: Structure numbers

1.5 Note on the project's recording methodologies

1.5.1 The site grid

The site grid lies approximately North–South / East–West (see Figure 4) and can be related to the Ordnance Survey National Grid (OSGB, EPSG 27700) with a local origin. In 2019 the site grid was tied into the Ordnance Survey National Grid.

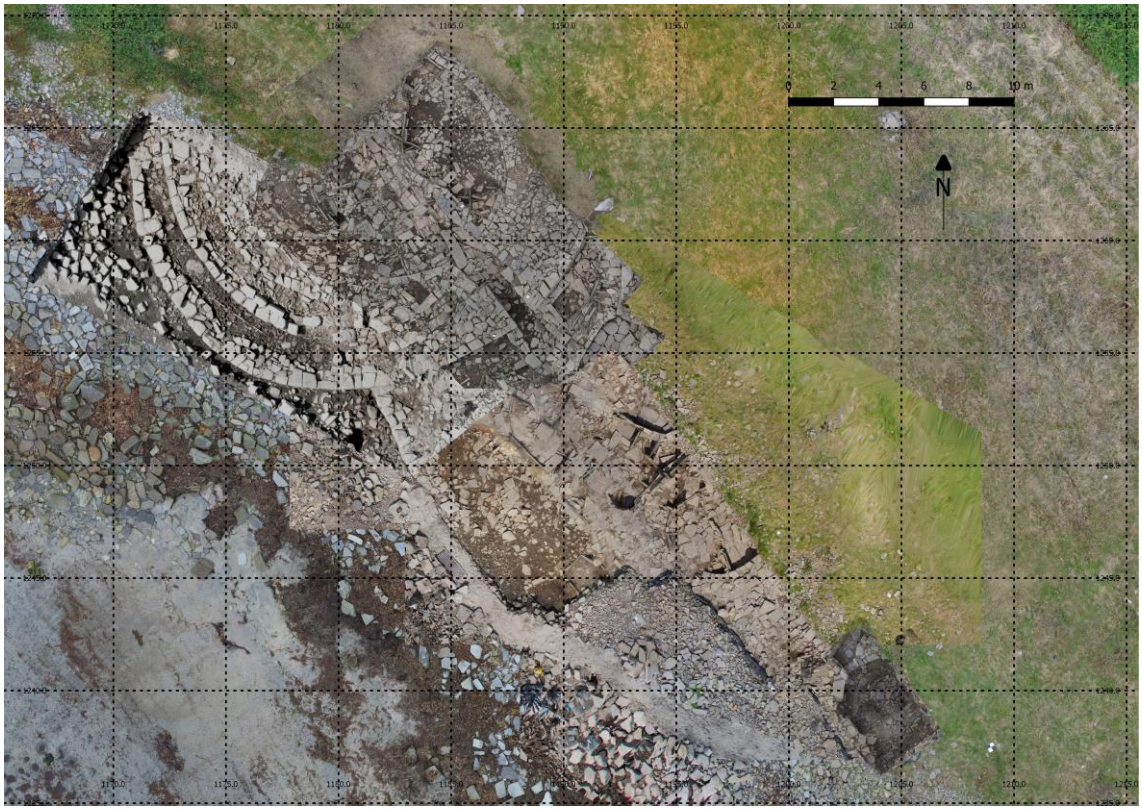

Figure 4: Composite orthographic (photogrammetric) plan of excavation area showing the site grid (using 2018 data and evaluation excavation data from 2015–2017; produced by L. Kemp).

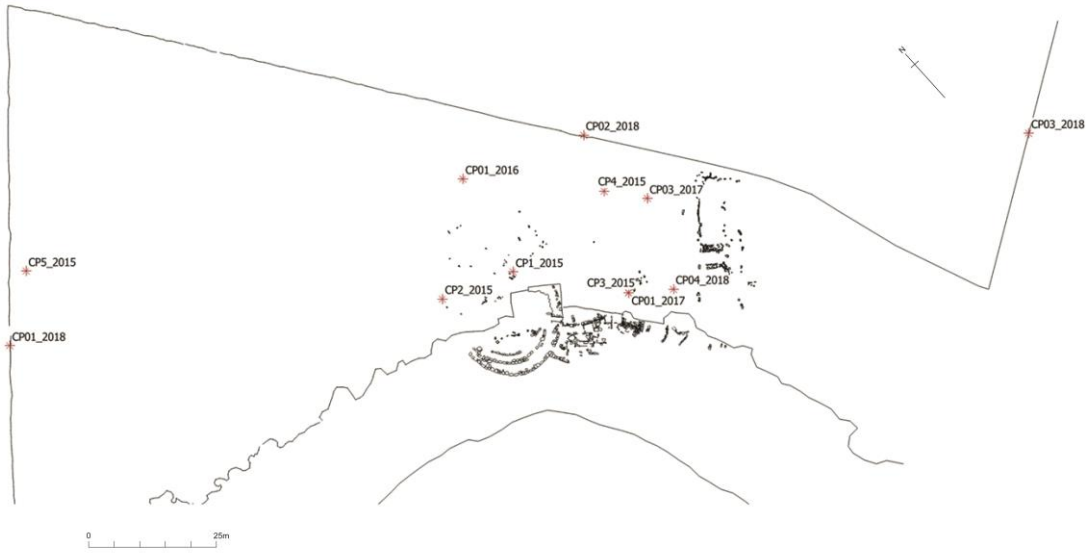

Figure 5: Plan of the site showing the location of the survey control points (University of Bradford)

A series of control points have been set up around the site (Figure 5) to enable the accurate three-dimensional recording of the excavation through more traditional survey techniques, and also the extensive laser scanning and photogrammetry taking place during the excavations.

1.5.2 Phased composite excavation

The excavation is defined as an ‘open area’ excavation; there are no gridded trench systems covering the site as advocated by Wheeler (1954). This form of excavation allows the excavation sequence to be viewed as a whole and facilitates the whole being excavated in stratigraphic order of the site and not the stratigraphic order of only one part of the site.

Many exponents of area excavation and Harris matrices use a single context planning system to archive, by drawn and photographic record, each stratigraphic unit. Although this is useful on many sites with relatively simple stratigraphic sequences it is problematic on complicated stratigraphic sequences with several metres of deposit. The recording system and excavation methodology used during the excavations has evolved over the last 35 years. The site is excavated as a whole by stratigraphic order with groupings of contexts representing contemporary events in time (phases). Essentially, each of these phases may contain either one or a number of contexts. Such a phase may be part of one building or a group of buildings that represent the site at a single point in time.

1.5.3 Context recording

Each context is recorded on site using recording forms and mirrored with a digital entry into the Tap Forms database (*www.tapforms.com*) using an iPad. At the time of recording with the iPad, a photograph is taken of the context which is stored in the database (see Appendix 2). These photographs are record shots and are not the primary site photographic archive.

Drawn vertical sections are strategically placed through archaeological features to provide added detail to the record of stratigraphic relationships and the archaeological events that the contexts represent. These are complemented by digital sections generated from three-dimensional laser scan data. Due to the nature of the site it is no longer possible to draw plans safely and accurately in the conventional manner. Drawn plans are derived from the accurate photogrammetry of the site.

1.5.4 Artefact recording

Every artefact from the excavation is treated as a unique find and is provided with a separate small find number. In doing so, each find spot can be three-dimensionally recorded, and each small find number equated with the context in which it was found. To simplify data handling every sample is also recorded in the unique artefact number system as the same information of context and position are required by these elements.

In addition to recording all artefacts recovered from the site by hand in a book, an iPad operating Tap Forms is also used. This enables the immediate digitisation and backing up of the data. It also enables a photograph of the artefact to be added to the database. At the Knowe of Swandro, a photograph is also taken of the find with the finds bag to help guard against any future errors (see Appendix 6).

1.6 An introduction to the site and previous seasons of investigation

The Knowe of Swandro consists of a large mound situated immediately behind a boulder beach on the Bay of Swandro. On the eastern flank of the Knowe are two Norse (late Viking period) houses known as the site of Westness, excavated by Walter Grant in 1946 and further investigated (or at least planned) by the archaeologist Ralegh Radford in the 1950’s or 60’s and excavated by Sigrid Kaland in the 1970’s (Radford 1962; Wilson and Hurst 1964). Photographs of

the Kaland excavations suggest that some of the trenches went to the foot of the Swandro mound and possibly in some cases (e.g. north of Structure 3) into the underlying archaeology but no evidence of either the Grant or Kaland investigations has yet been found in the modern excavations.

The mound and settlement of Swandro consists of a large early to mid Iron Age roundhouse surrounded by houses dating from the Iron Age, Pictish and possibly Viking periods and enclosed by an early stone-lined ditch. There are strong indications that an even earlier structure, perhaps a Neolithic cairn, underlies the central roundhouse. The site was originally thought to be a single small Iron Age house but investigations have shown that it is a much bigger structure and that the surrounding settlement extends under the beach; much of it has already been destroyed and it is being constantly eroded by the sea. The site is being excavated by the University of Bradford and the Swandro-Orkney Coastal Archaeology Trust with funding from Historic Environment Scotland, Orkney Islands Council and other sources, to gain as much information as possible before it is lost. Several seasons of assessment and excavation were carried out before the Covid pandemic led to a forced hiatus until the summer of 2022 when we could finally return. Here we summarise the results of those earlier seasons and report on the 2022 season.

The central Iron Age roundhouse (Structure 6) is monumental in structure (Plate 1), with a series of concentric walls built over several centuries and a once-impressive entrance passage. Radiocarbon dates indicate that this building was first constructed in the Early Iron Age, probably 2,800 – 2,400 years ago. There are indications that this building may be constructed on something even earlier. There are a series of buildings around the central roundhouse which have been partially investigated and date mostly to the first century BC/first century AD, such as Structure 1 (on the beach and now almost completely eroded, though the remains of a central hearth and a small stone-built oven were excavated and recorded). A small pendant made from a seal's tooth was found close to this building. Structure 1 was connected to the central roundhouse by a flagged passageway (Plate 2).

Further up the beach, there was also a slightly later stone-lined well, covered by a broken capstone and associated with fragments of another building. The well was accessed by steps and corbelled on three sides, with clay bonding between the stones of the walls; it is still filled by a freshwater spring. Geophysical investigations in 2019 showed that the entire early settlement had been surrounded by a deep stone-lined ditch which was filled in and built over by the first century BC, as Structure 3 which was dated to this period was constructed directly over it.

Structure 3 was a small semi-subterranean building which proved to be an Iron Age smithy complete with steps down below ground level, a bolt-hole in the wall, a doorway with an *in situ* threshold stone and a pivot stone in which the door would have been set (Plate 3). There was a central hearth and a stone anvil set into the floor with the smith's handprints still visible. Evidence from the deposits in Structure 3 suggests that both copper alloy working and blacksmithing took place in here. A cupboard or recess constructed within the wall of the building would have been to the left of where the smith worked and may have been used as storage for their tools or a lamp. The layout and sophisticated design of the building strongly suggests that this was a purpose-built smithy. When the smithy went out of use it was filled in and eventually the Norse hall of Westness was built over it.

Plate 1: The central Iron Age roundhouse which forms the focus of the settlement in 2022 (L. Kemp)

Plate 2: The passageway (right of picture) linking Structure 1 to the central Iron Age roundhouse. The oven and truncated hearth in Structure 1 can be seen on the left of the picture

Plate 3: The Iron Age smithy (Structure 3) dating to the first century AD

Another small building, listed as Structure 2, was also found eroding onto the beach. Excavation showed it to be a small roundhouse which was in use, rebuilt and modified over several centuries. It is possible, from the evidence of the fragmentary remains, that it was constructed within the walls of a much larger building. Under a later flagged floor was a large stone tank (Plate 4) made of dressed flagstones. A coin (nummus) of the Roman emperor Constans, dating to 348-350 AD, was found beneath the flags showing that this building was still in use in the fourth century AD or later.

There is more evidence of this late Roman/Early medieval settlement inside the central roundhouse. Dates from hearths next to the central passageway suggest the building was still in use in the sixth century AD, though the use may have changed as one of the finds in the 2022 season was a small furnace in the west of this building, indicating a more industrial than domestic function at this point; further investigation in 2023 has shown that this furnace was for iron production (See Section 2).

Just outside the central roundhouse in this later phase of the site was what appears to be a Pictish/Late Iron Age period agricultural building (Plate 5). Structure 4 had a nicely laid stone-flagged floor and an oven constructed inside its broad wall; both the oven and the deposits on the stone floor were full of charred cereal grains. Archaeomagnetic dates from the oven suggest this building was in use some time between the 6th and 11th centuries AD. The wall oven and the flagged floor are paralleled by a well-preserved corn dryer and similar floor, again with large quantities of charred grain, which was found at Old Scatness, Shetland. This strongly suggests the Swandro building was used to dry cereals in the oven and thresh or process them on the stone floor.

Plate 4: The late Iron Age building (Structure 2) showing the hearth and tank found under the Pictish paved surface

From the fills of this building a fragment of Pictish style comb with fine teeth and a copper alloy rivet, a decorated fragment of a possible needle case and a Viking-type bone spindle whorl illustrate the continuity of this settlement into the Pictish and Viking periods.

Plate 5: The Pictish phase corn dryer with the wall oven and flagged threshing floor

1.7 The 2022 excavation

1.7.1 Erosion since 2019

The excavation of the site of Swandro resumed in 2022 after a gap of two years due to the Covid pandemic. While the break was concerning in terms of loss of material from erosion, it did provide an opportunity to examine the effects of coastal erosion upon the archaeological remains during this period. The seaward side of the central roundhouse, which is under high tide level, had suffered greatly from erosion during this intervening period (Plate 6). An observation made in previous years suggested that the loss of finer archaeological deposits occurs through tidal action in addition to the more obvious erosion from high energy waves. The effects of tidal action combined with the throughflow of groundwater is leading to the loss of finer deposits such as those with high ash or silt content which are being removed by tidal suction. Where the deposits are between or underlying walls, the effect is to produce movement and collapse. In the period between 2019 and the 2022 season, these effects have resulted in a significant loss of archaeology. Some wall faces have partially collapsed and the wall coursing is tipping towards the sea due to the loss of underlying material.

The loss of finer material from the waterlogged underlying deposits due to tidal suction has also had an effect on the more substantial walling that survives above the high tide level. Here there was visible movement of structures, including the opening of joints in walling and cracks in large stones, together with a measurable loss of height due to the removal of underlying sediments by tidal action. The excavation and recording of the eroding part of the site is important in providing a record of movement, stone wear, and sediment loss. The use of laser scanning is allowing us to compare the current situation with previous data sets from the site and to build up a model of the day to day loss of archaeology due to coastal erosion.

Alongside the loss of archaeological deposits, the amount of new beach material deposited over the site since 2019 was also problematic and slowed the rate of excavation by restricting the area that could be opened. Excavation therefore concentrated on the roundhouse that forms the central focus for the surrounding Iron Age settlement at Swandro.

1.7.2 Excavation of the roundhouse

The earliest dates derived from both radiocarbon dates and artefactual evidence suggests the construction of the central roundhouse occurred in the Early Iron Age between 500 and 400 BC. The building seems to have had an extended period of use, perhaps as much as a millennium. The structure displays architectural complexity with a number of constructional modifications and seems to have remained a significant focus for the surrounding settlement through to the Late Iron Age (Pictish) period. There are also indications that some of the earlier wall faces in the eroding area of the roundhouse have a different focus and possibly belong to a separate, earlier structure.

The landward side of the central roundhouse had fared better (Plate 7), having suffered less erosion. Here work concentrated on examining first-century floor deposits in a large room to the north of the central passage.

This room (Structure 5) had originally been formed by large set upright flags or orthostats and has evidence for long use through the first to second centuries AD. The floors of this cell (Plate 7) provided evidence for several hearths and rich ash-based floor deposits containing a variety of artefacts. These finds included Iron Age glass toggle beads (Plate 8) and worked bone artefacts associated with textiles including long-handled weaving combs of whalebone and antler, a spindle whorl and bone needles. Two fragments of Roman glass bottles provide a sense of both

status and the trading connections with a much wider world. This room seems to have had walls partially covered with bright yellow clay, again paralleled at Old Scatness in Shetland and at other contemporary sites.

Plate 6: The effects of sediment loss through tidal action on the seaward side of the roundhouse showing the once horizontal laid stones forming the wall faces and wall core now dipping at steep angles

This room (Structure 5) within the roundhouse seems to be contemporary to other activity dating to the first century AD at Swandro. The partly-eroded building Structure 1 is connected to the roundhouse by a passage and has also produced radiocarbon and archaeomagnetic dates for the first century AD. The 'smithy' (Structure 3) was also in use during the first century AD, indicating activity dating to this period across the settlement.

Structure 5 was later blocked off from the central area of the roundhouse as part of an extensive internal rebuild dating to the Later Iron Age (Pictish) period. This later usage saw the entrance to Structure 5 being blocked by a new single-faced dry stone wall that divided the passage from the landward cells, forming a remodelled corridor or passage. The passage led to (now partially-eroded) occupation levels denoted by paving, hearths and what seems to be a small furnace

surrounded by fragments of glassy slag. This feature is not yet fully excavated but appears to be remarkably similar to one excavated at Mine Howe (Bond and Dockrill 2023, 31). Other indications, including archaeomagnetic dates from one of the hearths in 2019, would suggest that all these features are late Iron Age (Pictish) in date. This Pictish phase links to other areas of activity within the settlement such as the corn dryer and threshing floor described above as Structure 4 and the paved phase sealing the stone tank in Structure 2.

Plate 7: The floor and orthostatic (set upright flag) walls of the landward cell (Structure 5), within the central roundhouse, dating to the first century AD. Yellow clay colouring can be seen on the orthostat to the right and the interior wall face

Plate 8: One of the two Iron Age glass toggle beads found on the floor of the northern room (Structure 5) of the central roundhouse

This Pictish phase of occupation (and indeed occupation of the central roundhouse) appears to have ended with a deliberate demolition event. The position and nature of the rubble representing this event was recorded in detail in 2022. Most notable was the evidence of the dividing walls forming the central passage, which had been constructed as part of the later Iron Age modification. Here elements of the coursed walling had been collapsed on to its side (Plate 9). The number of wall elements showing this particular form of structural collapse together with a number of collapsed and broken orthostats all indicate a major event which appears to coincide with the lowering of the outer walls of the roundhouse.

There is increasing evidence that the end of the original settlement was deliberate and anthropogenic in nature. Inside the central roundhouse, the way in which walls and standing stones have collapsed suggests deliberate destruction, while the lowered and levelled wall tops and the large stones that seem to have been pushed from the walls suggests stone robbing. This idea is strengthened by the layer of small flat angular stones (‘shillet’) which blanketed the roundhouse, formed of flakes from the building stones and the small pin stones which had levelled the drystone courses and had been discarded when the walls were robbed. In the entrance to the roundhouse, this shillet contained the bones of two cats and a coin of Eanred, King of Northumbria (810-840 AD), which strongly suggests this demolition occurred in the Viking period. The midden sealing these events which was excavated in previous years contained artefacts strongly indicative of Viking culture which suggests that this demolition event relates to the arrival of Scandinavian peoples. It seems likely that the site was occupied and restructured at this point by newcomers bringing aspects of Scandinavian culture; possibly the people buried in the Westness Viking cemetery and the ancestors of those who built the Westness Norse houses.

Plate 9: The structured collapse of part of the seaward element of the central passageway of the central roundhouse

1.7.3 Conclusions

The 2022 excavations have added greatly to our understanding both of the archaeological sequence and equally of significance the processes of erosion that this site is being subjected to. The long-term nature of the excavation over ten field seasons has provided a unique opportunity to record the damage and archaeological loss using three-dimensional laser documentation. This data is being used by Nicole Burton, a postgraduate researcher at the University of Bradford, working with the Digital Team at Historic Environment Scotland. It is hoped that this study will inform future management of other sites at risk.

In terms of the significance of the archaeological sequence, Swandro provides a long chronology with settlement dating to the Early Iron Age (possibly earlier) and extending to the Pictish period. The settlement appears to be village-like with rebuilds and modifications. Over the generations the settlement's footprint formed a visible mound which was overlain by the Norse 'Westness' longhouses to the south-east.

The large roundhouse formed a central focus for the settlement from the Early Iron Age until its destruction, possibly by Scandinavian settlers. The roundhouse is of broch proportions but does not share a number of the attributes associated with brochs. This may be in part due to the original construction being so early, making this a 'proto-broch'. The site and in particular the central roundhouse display signs of wealth and status and contact with the outside world. The position of this and other sites on the shores of Eynhallow Sound is significant in terms of trade and contact, both in the Iron Age and the Viking Norse period.

1.8 The 2023 excavation

In 2023, work centred on continuing the excavation of the areas of the central roundhouse and investigating other areas of the site which would answer questions which have arisen in the course of the project and contribute to understanding the history of this complex multiperiod site (Figure 6). Section 2 includes a summary of the 2023 excavation season and the accompanying stratigraphic report.

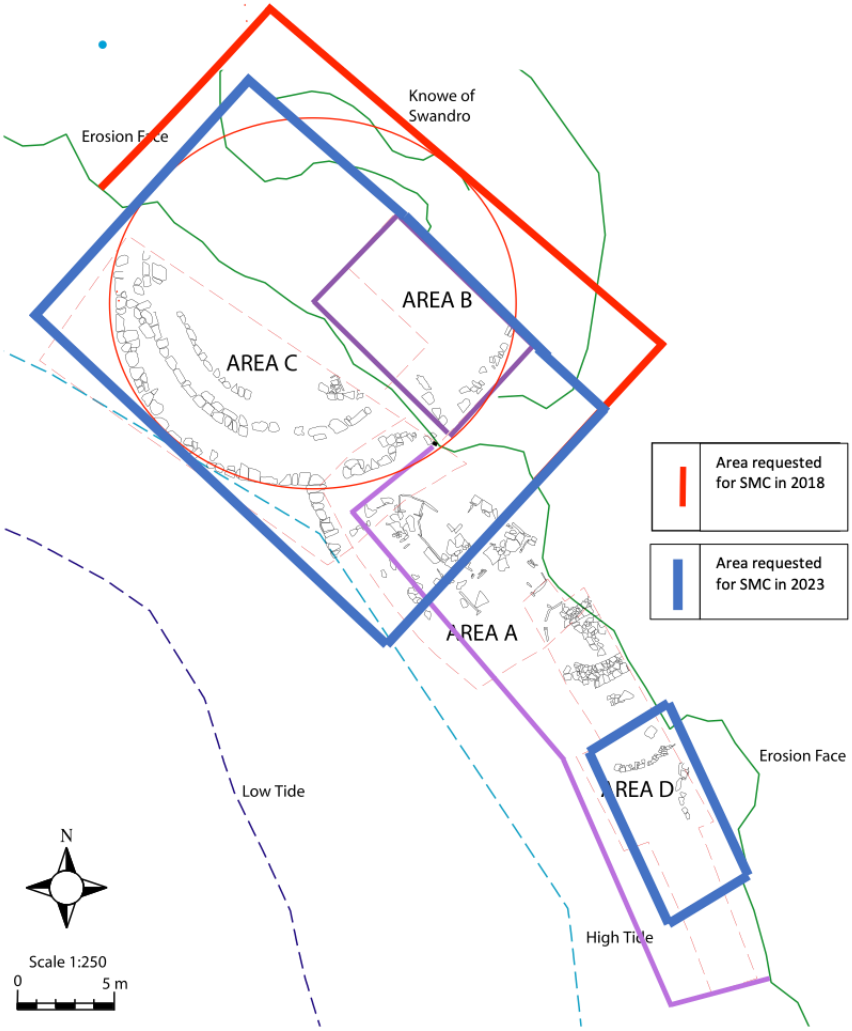

Figure 6: Site plan showing the areas granted SMC in 2023

2. Structural Summary of the 2023 Excavation at the Knowe of Swandro

Stephen J. Dockrill and Julie M. Bond

2.1 Introduction and summary of the 2023 season

Archaeological work at the multiperiod settlement site of Swandro, on the island of Rousay in 2023 consisted of a detailed survey of the Westness longhouse and the continuation of the excavation of the large monumental roundhouse forming the focus of the Iron Age settlement.

Survey work on the Westness longhouse included the recording of exposed stonework and earthworks as both contour and hachure surveys. The site was originally excavated by Callander in the 1940's and later by Sigrid Kaland in the 1970's (n.a. 1949; Kaland 1973 and 1993) but unfortunately neither of these excavations has been published and there is no detailed plan. As it is now obvious that the Norse longhouse (or houses) are the latest phase of the Swandro settlement it was felt that a plan was essential to tie this structure into the wider archaeological context.

A trench was excavated in the field behind the Swandro settlement and in line with the longhouse, outside the scheduled area. This revealed a paved surface and some midden material in alignment with the longhouse. It is hoped that some dating material may be recovered from the animal bone associated with these deposits.

Excavation of the interior of the large Iron Age roundhouse concentrated on the central area which was less affected by destruction and erosion of the deposits by the sea. The lower levels of the rubble in the roundhouse investigated in 2022 suggested major structural collapse in a single event. The lowest levels of this rubble were excavated in 2023, revealing floor surfaces. Three distinct rooms survived around the circumference of the interior. The seaward room (adjacent to the eroded portion) contained an iron smelting furnace. This was excavated and archaeomagnetic samples were taken along with samples of slag. This furnace together with the adjacent area may be Late Iron Age (Pictish) in date although the fact it was later paved over suggests it is not the latest phase of activity in the roundhouse. This room led into another room which contained a rectangular hearth and intact floors. Either side of the hearth were two whale vertebrae set into pits in the floor. These vertebrae had sockets worked into the body of the vertebra and seem to have acted as the bases for two uprights for a spit or bar above the fire to support a suspended cauldron or other feature.

Excavation of the floor in Structure 5, the north-eastern (inland) room, first investigated in 2022, continued this season. Under this floor an earlier flagged floor was discovered together with original entrance to the room from a central passageway leading from the roundhouse entrance. The entrance consisted of a threshold stone with an *in situ* pivot stone. The floors were fully sampled and a large hearth butting the interior circumference wall of the roundhouse was also sampled for archaeomagnetic dating.

In 2012 and 2013, excavation of the eroded beach deposits (Area D) revealed two stone walls with a distinct rubble infill. Investigation of Structure 3 in 2017 and 2018 indicated that this structure had been cut into the earlier features. The excavation of the stone infill surviving under the floor of Structure 3 strongly indicated that the wall was actually a ditch revetment. The beach area was re-examined in 2023 in order to test this hypothesis and to obtain dating material if

possible. Excavation indicated that this feature formed a revetted ditch similar to that surviving at Midhowe Broch, further along the Westness coast.

2.2 Structure 5

2.2.1 Introduction

Structure 5, represents a cell or room on the northern circumference of the monumental roundhouse, dating to the mid Iron Age. This room was defined by the use of large upright orthostats to form a wall and the roundhouse's inner wall face. This room seems to have had a long usage and in the Later Iron Age the orthostats had in places been removed and replaced by walling or the orthostats had been backed by walling associated with the Structure 6 modification of the central corridor, leading from the entrance of the roundhouse into its interior.

At the end of 2019, a floor level had been identified in this room and in 2022 it formed the focus of definition and excavation, revealing several hearths. In 2023 the excavation saw the further definition of features and excavation of the floor to reveal the presence of an earlier floor level and the doorway into the cell, which had been blocked in the Later Iron Age re-configuration of the interior of the roundhouse (Plate 10).

Plate 10: Structure 5 showing the orthostatic boundary forming the room, with the upper floor to the right and the lower floor to the left of the section line

2.2.2 The stratigraphic sequence (Plate 11 and Figure 7)

Excavation continued in 2023 in a cell on the south-west of Structure 5, constructed against the entrance passage and the inner Roundhouse wall [1042]. The cell was formed by a relining wall

[3928] butting [1042]. In the recent excavations it became clear that this wall together with [3456] represent evidence that this cell had been corbelled (Plate 12).

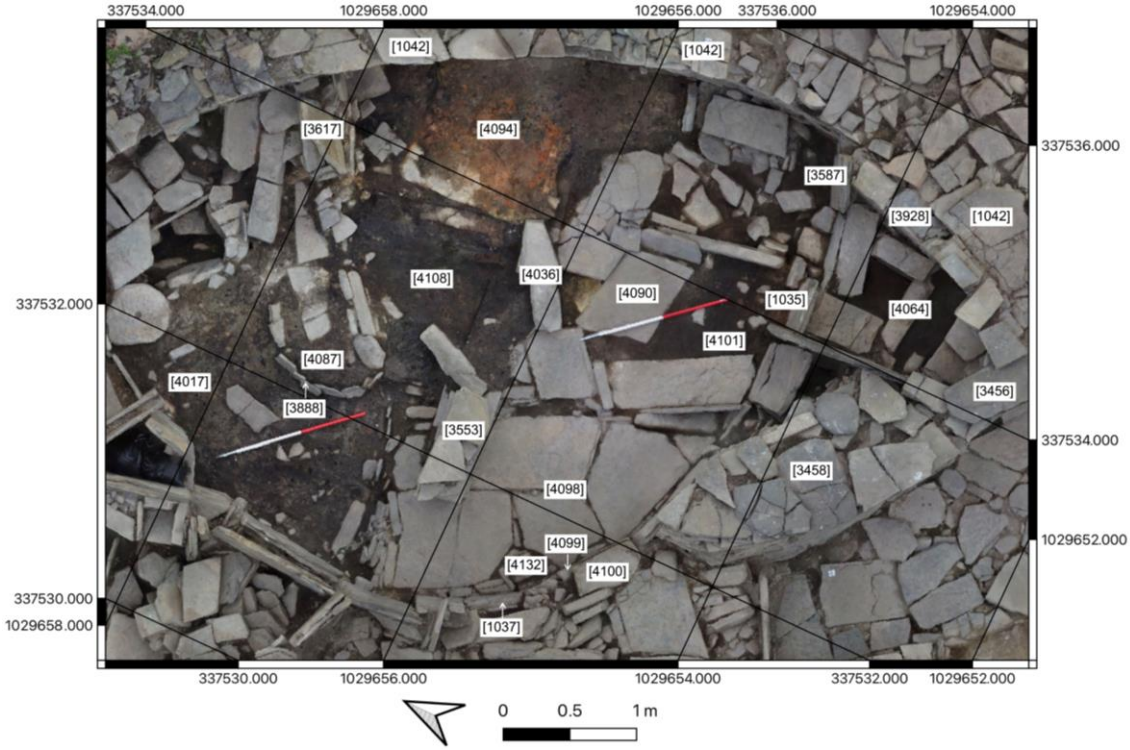

Plate 11: Structure 5: orthographic plan of the sectioned floor

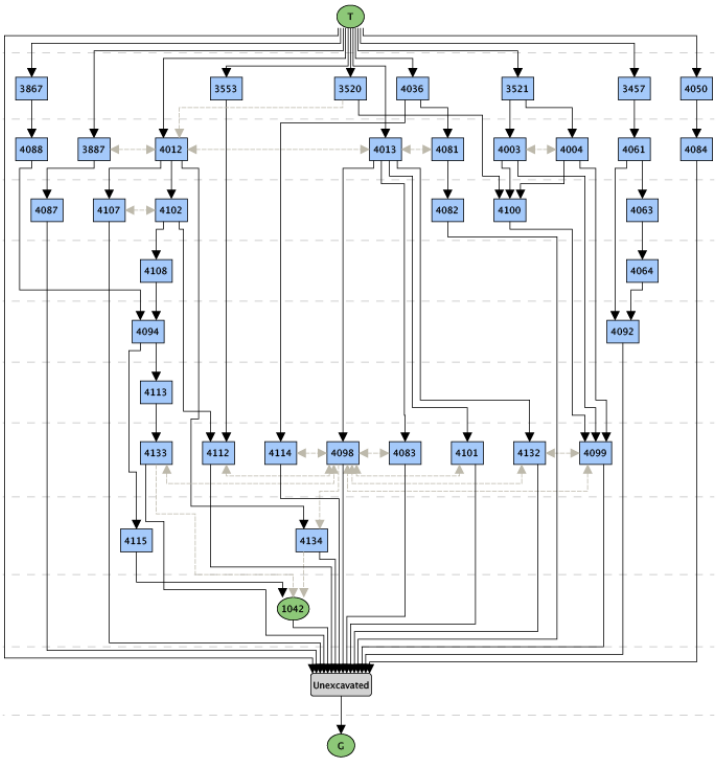

Figure 7: Structure 5 stratigraphic Harris matrix

The entrance into the cell was flanked by two orthostats; [3587], which butted [3928] and [1035]. In 2022 a rough surface of flags [3487] was identified. In 2023, the interpretation that these

stones formed a distinct paved surface was revised. The slight angular tips of these stones suggest that these might be collapsed capping stones from the corbelling. Removal of [3487] revealed a layer of very loose soil [4061]. This in turn sealed a large flag [4063] forming the floor to the cell. The removal of this flag revealed a levelling layer of loose rubble [4064]. This levelling layer infilled (butted) large stones laid horizontally to form support to the large flag [4063] that formed the floor of the cell. Adjacent to orthostat [4085] in front of the entrance to this cell was a distinctive reddish-orange ash dump [4034] identified at the end of the 2022 season. In 2023 this ash was excavated and was found to partly seal [4035], the top of a set upright stone. Adjacent to [4035], a flag [4050] which in turn had been sealed by [3193], was found to seal a layer of shillet (small angular platy stones) [4084].

Plate 12: The corbelled cell within Structure 5 with the large flag [4063] forming the floor to the cell

Within the centre of Structure 5 in 2022, excavation of the upper floor level revealed that the room had been divided into two zones; the north-west zone had an ash floor [4012] surrounding a central horseshoe-shaped hearth formed by a small orthostatic surround [3888] and a fire cracked stone base [3887]. This zone was divided from the south-east area by two wall elements representing stumps of piers [3553] and [4036] (originally recorded as [3981]). The ash floor, which seems to be an extension of [4012], was recorded as [4013]. This was a very compacted

ash-rich layer with a high charcoal content. Careful excavation in 2023 revealed that this deposit had formed from the deposition and compaction of many fine lenses of ash. Samples were taken for soil micromorphology to obtain a better understanding of this floor deposit.

The remains of the short pier [4036] consisted of several courses of faced walling on the southern side and two large cobbles forming the northern face. The coursed elements were removed in 2023 in order to provide a section through the ash deposits forming the floor level [4013]. The coursing of [4036] was found to seal a matrix of the same composition as [4013]. This dark, almost black, layer seemed to represent a lower level of [4013] and was recorded as [4081]. This in turn sealed a large flag [4037].

A section was instituted across Structure 5 from the internal wall face of the roundhouse [1042] to show the relationship between the possible pier or stone setting [4036] and flagged floor [4098]. Within the line of the section [4081] sealed a patch of yellow clay [4082]. The stone feature [4036] was found to seal flagging [4083]. This flagging was found to extend under [4013] and was recorded as [4098]. This flag floor [4098] was also sealed by [4037]. Further excavation demonstrated that both [4083] and [4098] formed a contiguous floor surface of well-laid flags with a dark compacted soil [4101] packing between the flagstones.

In the area north of pier [3553] the fire-cracked stone hearth base [3887] was removed; this was found to seal a grey-black deposit [4087], which in terms of composition appeared to be the same as [4012]. The evidence for both [4012] and [4013] suggests that the build-up of this floor occurred over time and incorporated a degree of structural change. A subtle colour difference was seen in this northern part of the room. Here [4012] was found to seal a dark grey ash recorded as [4102] and [4107]. These two contexts are stratigraphically the same.

A large stone flag [3867] forming a hearth stone was located in 2022 adjacent to orthostat [3617] and the inner wall of the roundhouse [1042]. In 2023 this stone had become out of phase and was lifted to reveal [4088], a base of baked clay and stone fragments. Excavation of this revealed [4094], a hearth bed of orange burnt clay. A mottled orange and black ash [4108] was found adjacent to [4094]. This ash contained small fragments of fired clay and was sealed by [4107].

The secondary wall forming the central corridor within Structure 6 and butting the original orthostatic wall to Structure 5 was also investigated in 2023. Coursed wall element [3521] was found to have clearly been part of this later modification and its excavation revealed the original entrance leading into Structure 5 from the centre of the roundhouse. This wall incorporated two upright slabs [4003] and [4004]; these two stones represent a re-used broken orthostat. These two reused slabs sealed the remains of a flag, which in turn sealed the compacted ash floor [4013]. Behind these two slabs an internally-faced coursed wall [4100] was sealed by passage wall [3521]. This walling [4100] butted against an orthostat [1037] and was found to seal the top of a threshold stone [4099]. On excavation, this set threshold stone was found to have been butted by the paving [4098]. Set between this paving, the threshold stone and the orthostat [1037] was an *in situ* pivot stone [4132]. This indicated that at the entrance into this room from the centre the door opened from the left hand side. In reconsidering [4100], the flat top of this internally-faced wall element spanning the threshold entrance suggests this might have formed an upper entrance level into Structure 5, contemporary with the structure's upper floors and hearths. This suggested entrance would have been blocked later by the construction of [3521].

2.3 Structure 6

2.3.1 Introduction

The last phase of use of the monumental roundhouse saw a remodelling event within the interior and this modification is here denoted Structure 6. This modification, dating to the Pictish period (Late Iron Age), represents the construction of walling associated with construction of a corridor/passage leading into the centre of the roundhouse (Plate 13). The south-western and north-western quadrants of the roundhouse interior have suffered from erosion by the sea, which has removed much of the archaeology. The corridor and fragments of paved flooring together with a series of hearths provided some *in situ* evidence belonging to this phase. On the north-western and northern quadrants there was much better survival. In 2022, work concentrated on defining activity relating to this phase. This work identified evidence for a major destruction event during which whole walls, including much of the seaward side of the corridor, had collapsed. Careful recording indicated that this event was one that took place over a short period of time and appeared to represent anthropogenic demolition rather than natural abandonment. The structure of the rubble and collapsed walling were carefully recorded and excavated in 2022.

In the northern and north-western quadrants much of the collapse had been excavated in 2022. In the north-western quadrant this revealed the remains of the top of a fired structure thought to be a furnace for iron smelting. In the northern quadrant a surface [4010], represented by a layer of flat-laid stones and clayey matrix marked the limit of investigation in 2022. In 2023 work concentrated on the definition and recording of the lower stratigraphic elements of this demolition event along the corridor/passage. The furnace room was defined, the furnace fully excavated and samples taken for archaeomagnetic dating. Work in 2023 within the northern quadrant revealed a defined room with floor and a central hearth.

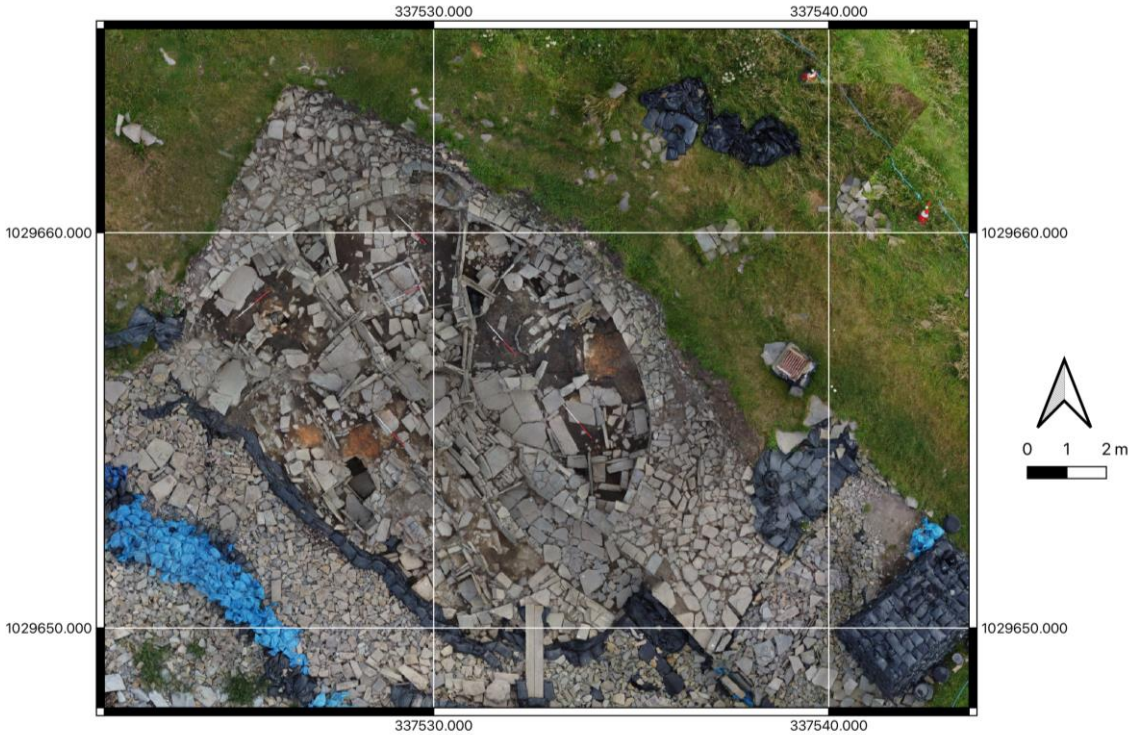

Plate 13: Structures 5 and 6: the area excavated in 2023

2.3.2 The stratigraphic sequence (Figure 8)

The northern room (Plate 14)

The northern room was constructed with two radial sets of orthostats running into the interior of the roundhouse from the inner roundhouse wall, represented by [1042] and [3722]. The eastern radial division is represented by orthostats [3794], and wall element [3902]. Orthostat [3794] is set parallel to orthostat [3117], forming the radial boundary with Structure 5. The western boundary to the northern room of Structure 6 is formed by orthostats [3977] and [3973]. The room would have been entered from the west from the furnace room by a series of three steps [4070], [4019] and [4020], constructed against orthostat [3972]. The internal boundary seems to be represented by orthostats [4024], [3981] and [3941]. However, the inner zone was obscured by structured collapse consisting of [3944] and [3980]. This rubble sealed two large dressed stones [4048] and [4047]. These in turn sealed [4010], the mixed stone and clay layer whose surface was revealed in 2022.

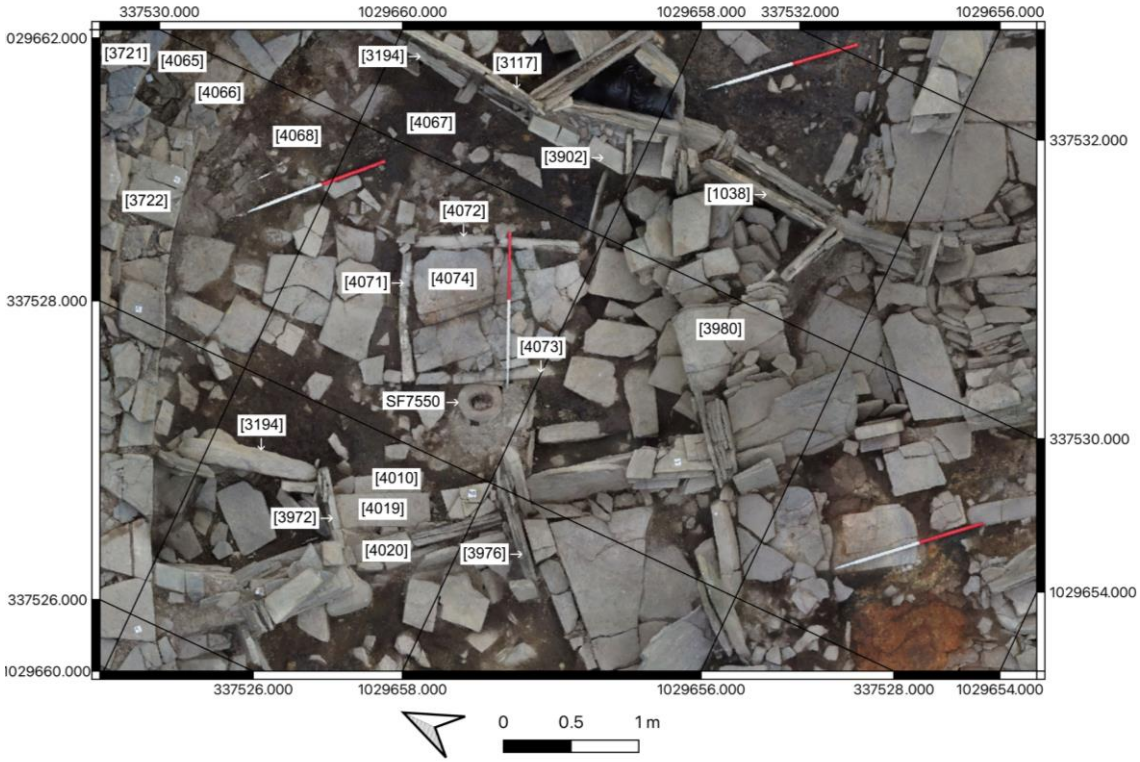

Plate 14: Orthographic plan of the northern room of Structure 6 showing the hearth and floor surface

A cell or alcove with evidence of corbelling had been created by removing a section of the inner roundhouse wall ([1042] / [3722]); this cell contained a sandy matrix [1062]. This context sealed the top of a stone-faced wall [4066] which proved to represent a continuation of the inner wall face at lower level.

Against this alcove the removal of [4010] revealed [4068] a distinctive patch of charcoal and yellow clay. Elsewhere across the interior of the room the excavation of [4010] revealed a distinct carbon rich floor layer [4067], which surrounded a central rectangular hearth contained by three visible hearth kerbs formed by orthostats [4072] (on the long eastern side), orthostats [4073] (on the west) and [4071] forming the hearth kerb on the northern side. The southern kerb could not be identified as it was sealed under the large collapsed dressed stone [4047]. The centre of the hearth was formed by a base of flags [4074] displaying signs of having been fire cracked.

The floor deposit [4067] sealed the remains of stone flagging [4069] forming a coherent floor contemporary with the construction of the hearth (Plate 15). Either side of the hearth were two post settings made from whale bone vertebra which had been drilled into to make sockets for upright posts, The eastern whale bone was extremely fragmented and fragile and could not be lifted. However, the western (seaward) vertebra SF7550 was more intact and could be excavated. Here the vertebra was surrounded on the surface by small pebbles and shell fragments [4126]; this sealed a black greasy deposit [4139]. Adjacent to the hearth a series of small flag stones butted the hearth and the whale bone SF7550. These sealed a dark brown charcoal flecked layer. Definition of the surface of [4140] revealed that this had been cut [4141] for a pit in which the vertebra was inserted. The vertebra after having been placed in the pit had been packed by sloping stones [4143] placed against the bone. The pit had then been subsequently filled and the fill between the cut [4141] and the packing comprised of [4142] a silty clay with approximately 20% small angular platy stones. SF7550 (shown in Plate 14) was lifted and shown to have been trimmed to fit the pit.

Plate 15: Northern room of Structure 6 showing detail of the floor, hearth and two whalebone sockets

The symmetrical positions of these whale bone post sockets either side of the hearth suggested that these were for post uprights that would require a solid base to mitigate against a degree of weight. It is suggested that these posts would have accepted a cross member in the form of a horizontal bar acting either as a spit for roasting meat or as a bar from which some form of cauldron might have been suspended over the hearth.

The furnace room (Plate 16)

This north-western room is an area formed against the inner wall face of the roundhouse [3722] and a radial pier separating it from the northern room formed by wall face [3814] on the north-east and pier [3865] on the north-west. This pier [3865] forms the north-east boundary to the furnace room, in alignment with two wall elements [3863] and [4020]. An entrance into the northern cell is indicated by step [4019]. Beyond these the radial line is continued by orthostat [3977]. On the western side the room has been eroded by the sea, one partly collapsed orthostat [4120] suggesting the presence of one element of the western boundary to the wall. In 2022, this room was found to contain an *in situ* fired structure [4006], interpreted as a furnace. Work in 2023 concentrated on the careful excavation of this feature and the floor surfaces surrounding it.

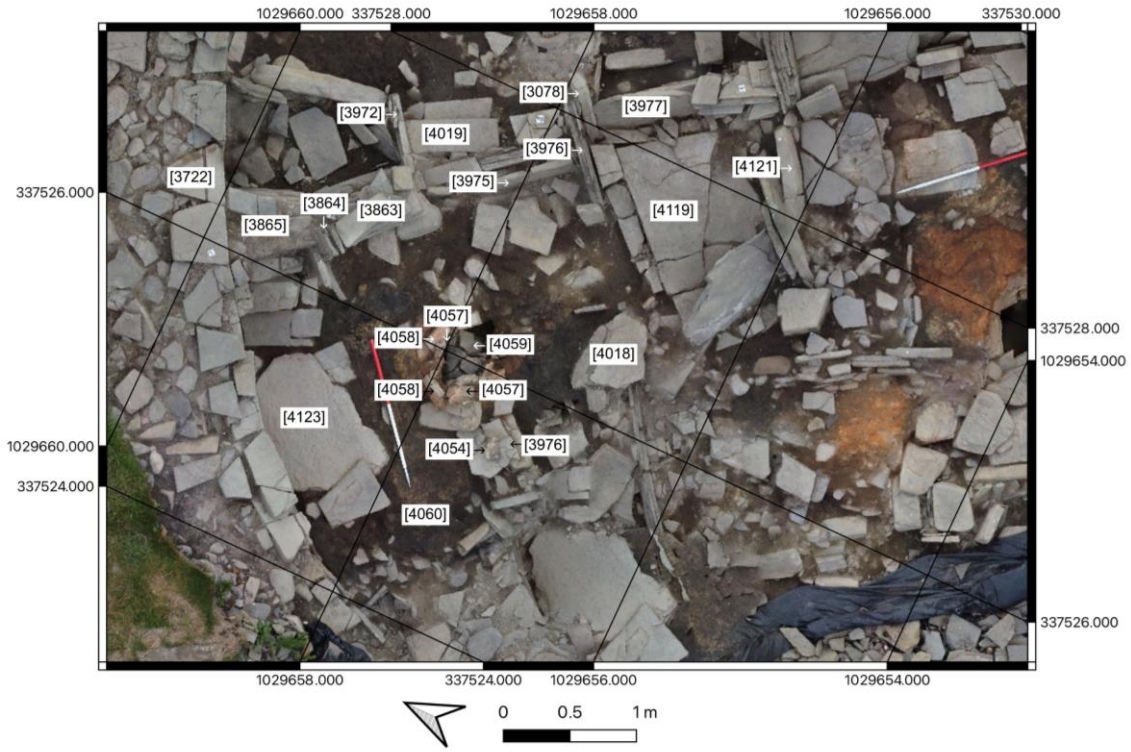

Plate 16: Orthographic plan of the furnace room, showing the location of the furnace

The excavation of the fired structure revealed that the wall of the furnace [4058] was carefully constructed using selected small stone blocks and clay (Plate 17). The angular stone blocks were all of a comparable size (c.10 by 20cm) set into the clay, which had been subsequently been fired. The inside of the furnace contained a lining [4057], which with use had become vitrified. The base of the furnace was formed by fire-cracked stone [4059]. The furnace appears to have been constructed on a flagstone [4136]; this might be a component of an earlier flagged floor yet to be excavated.

Surrounding the furnace was a layer of charcoal and baked clay [4054]. Beyond this was a mid brown clay-based matrix [4060], which butted [4058]. Excavation of [4060] between the furnace

and the inner wall face of the roundhouse showed that this context sealed a beige to orange clay [4124] and both of these layers sealed a large flag [4123].

Plate 17: Detail of the furnace in Structure 6

To the south of the furnace, a mixed fill [4135] with inclusions of stone rubble, fired clay and yellow clay, indicated the presence of a tap channel. Due to time constraints this feature could not be excavated in 2023 and will be a priority target for 2024.

Further to the south a series of flagged surfaces were identified. These consisted of flag surface [4079] (sealed by [4016], identified in 2022) which sealed [4091], a silty greyish-brown layer with inclusions of charcoal flecking, burnt and orange clay lumps. This in turn sealed a charcoal-rich layer with clay lumps [4111]. This layer seems to be contemporary with the use of the furnace and in turn seals an extensive layer of paving [4119] forming a floor surface.

The central corridor and south-western quadrant (Plate 18)

The corridor leading into the central zone of the roundhouse had on the seaward side suffered from collapse and dismantling associated with demolition or stone robbing. Excavation in 2019 and 2022 revealed evidence of an ordered collapse cracked orthostats and whole sections of drystone walling which had fallen or been pushed back against the north-eastern landward wall of

the passage. These layers of collapse had provided a degree of protection for the landward side of the passage. Much of the south-western / western wall elements of the passage and the radial rooms beyond did not survive due to the dismantling event and more recent erosion on the seaward side.

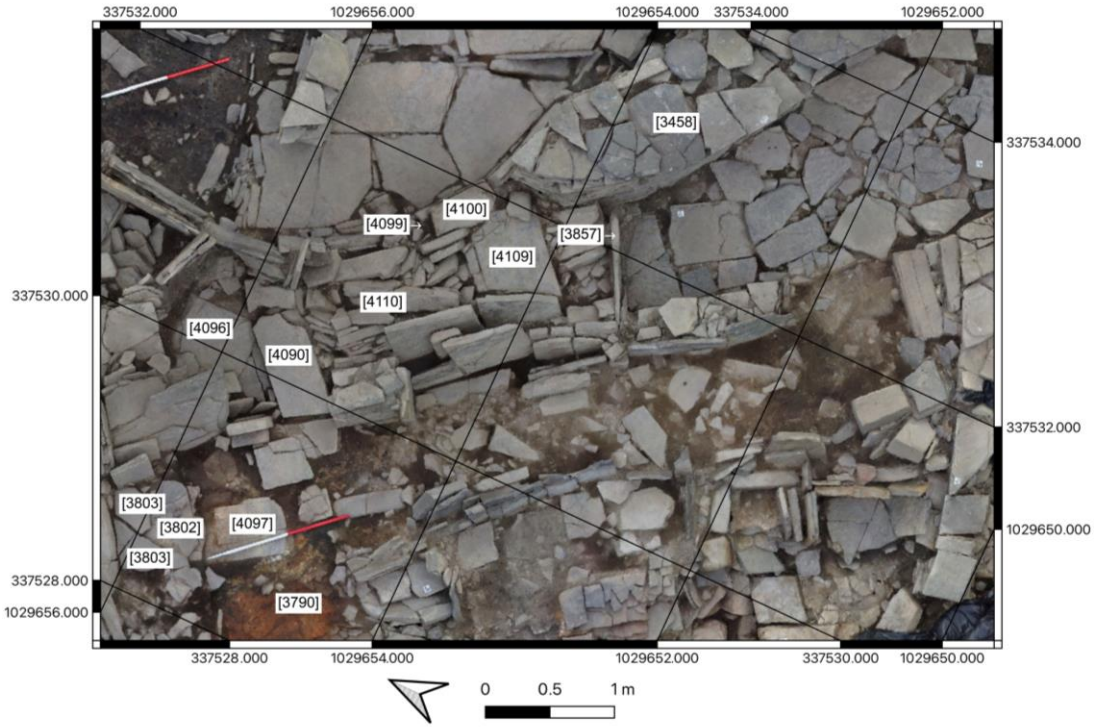

Plate 18: Orthographic plan of the corridor, together with the entrance into Structure 5 and the inner corridor

Definition of the structural collapse occurred in 2022, work in 2023 targeted the removal and recording of this collapse in order to understand the development of the corridor. The evidence suggested a complexity of development indicating several periods of construction modifying the interior of the roundhouse. The removal of rubble and later secondary wall elements showed that much of the corridor would have been constructed of orthostats with the corridor leading into the radial apex of the northern room. To the seaward side of this corridor the archaeology had been truncated and earlier levels were visible in the eroding face. The stubs of orthostatic settings, on the south-western (seaward) side, suggested a parallel passage providing access to the missing cellular rooms on the seaward side, which have been lost to erosion by the sea.

One major element of the central corridor was the rubble collapse which displaced structures and suggested a purposeful demolition event. One such context was [3589] represented by a series of large sloping stones, possibly broken elements of an orthostatic division pushed over against a wall face [3591]. These stones may have derived from the orthostatic stumps [3591] forming the seaward side of the corridor (and the landward boundary to the parallel passage). This orthostatic boundary separated the corridor from the partial remains of a paved area [3599] and hearth [3538] on the seaward side. This south-western / western zone only partially survived due to erosion and loss of the archaeological roundhouse deposits on the seaward side. The collapse [3589] sealed a short stretch of walling [3590] faced on the corridor side. This walling together with what appears to a continuation of this wall [3593] seems to predate wall [3521], which represents a later rebuild of the corridor wall. The earlier wall element [[3590] was found to seal a layer of flagstones [3525]. Excavation in 2023 of walls [3521] and [3590] indicated that these walls clearly butted the corridor wall element [3458] to the south and formed a walled continuation of the passage.

A short stretch of tumbled walling [4075] was located between [3458] and collapse [3858] (a collapsed wall element identified in 2019, butting against [3458]). On excavation of [3590], a second stretch of tumbled walling [4076] was found to have been butted by wall [3593] and [3858]. The excavation of walling [3590] revealed that this sealed to the north several pitched flags [4110] and to the south a flag surface [4109] which appears to be at the same level as walling [4100] which is faced on the Structure 5 side. This walling [4100] sealed a threshold stone [4099] forming the doorway into Structure 5. The levelled top of [4100] conjoins with the paved floor level [4109] and indicates an upper entrance level to Structure 5 predating the building.

A grey-brown silty layer with charcoal flecking [4075] sealed a large flag [4090]. The presence of a worked notch on this stone suggests that it represents a collapsed or re-used orthostat.

Adjacent and to the north of [4090] a flag surface [4096] formed a floor to the passage, and this may be contemporary with paving [4109] being separated by [4110] and [4090].

The inner passageway and doorway into the furnace room

One objective for the 2023 season was to finish removing the rubble over the area of Structure 6 known in the 2019 and 2022 seasons as the North Extension, and which contained the furnace and to bring this area and the passageway through Structure 6 into phase.

The two areas of Structure 6 were linked by a blocked doorway with a sill stone, [4078], which was later blocked by an orthostat [3941] against which blocking wall [3528] was built on the side facing the main entrance to the roundhouse, effectively blocking off the northern area of Structure 6 from the passageway and entrance. There may have been another linking door or area on the seaward side as otherwise there would seem to be no access to these rooms but the occupation surfaces in this area have been eroded away by the sea.

Inside the northern area, the sill stone [4078] was butted by a layer of flags [4119] which stratigraphically seal the furnace deposits. [4119] was sealed by [4095] / [4111], a layer of charcoal-stained silt, [4091] and a series of flags and other deposits; [4079] (flagstones), [4018], [4017] (flagstones), [4016] (flagstones), and [3970] (flagstones), which all butt the orthostat [3941] and are stratigraphically later than the furnace. On the passageway side of the blocking, the wall [3528] sealed rough flags [3804] which sealed a spread of orange ash [3801] which in turn sealed both the kerb stone of a hearth, [3803] (situated directly in front of the later door area) and also sealed by the sill stone of the doorway ([4078]). On the seaward side of the area, [3801] sealed an earlier ash deposit [3800] which sealed [3816], sealing hearth [3790] which seals [3781]. The hearth stone [3803] by the later doorway sealed hearth stone [3802] which is also directly overlaid by the sill stone [4078]. Hearth stone [3802] was bedded on a layer of small pebbles [4077] which had been laid over an earlier hearth stone [4097]. Excavation finished for the season at this point.

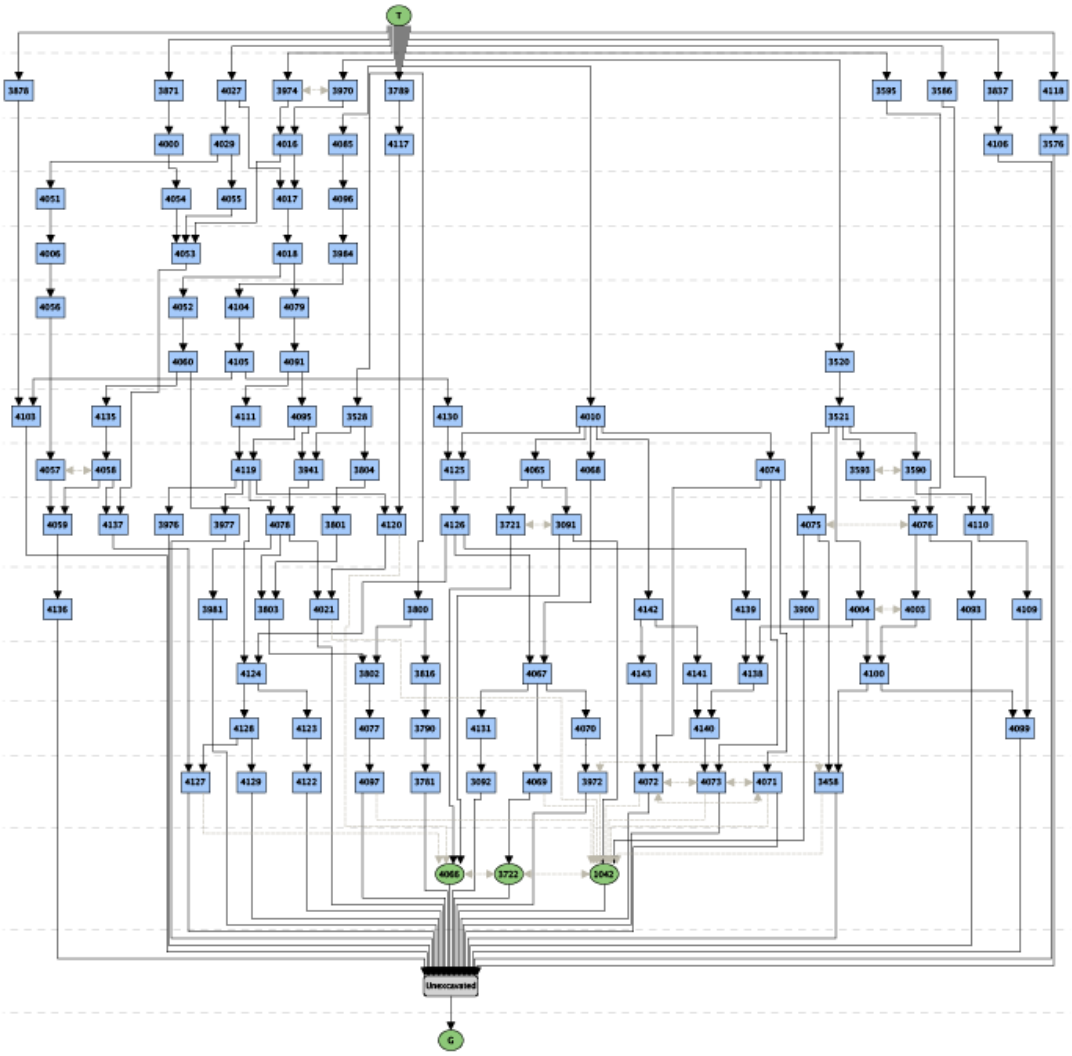

Figure 8: Structure 6: stratigraphic Harris matrix

2.4 Area D

2.4.1 Introduction

A section through the suspected ditch was investigated in 2023 to obtain a better stratigraphic understanding and dating material (Plate 19). This feature had been first identified in 2012 during the evaluation of the archaeological survival along the beach to determine the extent of the settlement mound (Dockrill and Bond 2013, 4–5). In 2012 this feature was found to be composed of two single-faced walls; [1518] on the north-west and [1520] on the south-east. The infilling rubble [3026] had been affected by the sea with silt components of the infill having in parts been drawn out by the tidal erosion process. Structure 3, the dedicated metalworking building, had been inserted into this feature with the single-faced wall [1534] forming the south-eastern extent of the building on the seaward side, butting the infill [3026] between these two walls. In 2023 the excavated contexts were assigned new context numbers to clarify the archaeological sequence and reflect the greater depositional detail revealed.

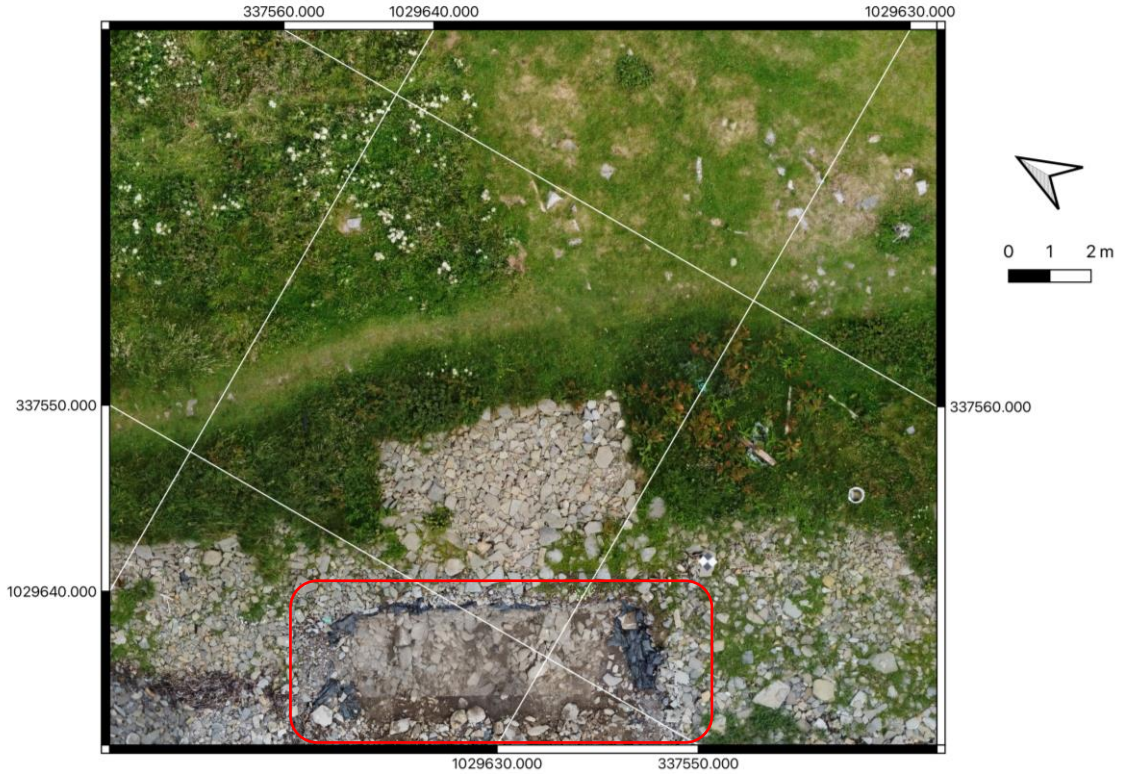

Plate 19: Location of Area D (red box) in relation to the infilled Structure 3

The excavation of Structure 3 in 2018 revealed that both retaining walls of the possible ditch feature ([1518] and [1520]) survived under the floors and walls forming this inserted metalworking structure (Plate 20). A section of the south-eastern wall [1520] and infill [3026] was excavated. The faced walling [1520] was here renumbered as [3301] and the rubble infill renumbered here as [3605]. (Bond and Dockrill 2019, 9–11). The excavated intervention into these earlier deposits strongly suggested that the single-faced wall [3301] acted as a revetment wall for a ditch, containing rubble. The nature of the rubble was indicative of a rapid infilling event. A similar construction of stone-faced revetments was seen in the ditches at Midhowe (Callander and Grant 1933, 467–470). A similar style of stone revetment was also recorded by the excavators at Old Scatness, Shetland. At Swandro the rubble infill [3026] and that observed in the beach exposure provided strong evidence for a structured (anthropogenic) infilling of the revetted ditch rather than a natural infilling over time.

These two exposures of what appeared to be a defensive ditch were intriguing and led to the re-excavation of the beach area in 2023 to record the feature in greater detail and to investigate the potential for recovery of *in situ* cultural material that might provide a dating sequence, extending back in time the chronology for Structure 3. The eroded section had been covered with a permeable membrane in 2013 before backfilling with beach material. This backfill was removed back to the membrane in 2023 and the excavated section was cleaned and redefined by excavation to facilitate further investigation and for detailed recording and sampling (Plate 21).

Plate 20: The revetment wall exposed in 2018, running under Structure 3

2.4.2 The stratigraphic sequence (Plate 22 and Figure 9)

The north-west revetment wall [5018] was found to consist of two elements, the later structural element being formed by large sub rectangular blocks [6000] (recorded as [1518] in 2012). This was sealed and butted on the north-western side of the wall by a stack of smaller stones [6017]. This provided a packing backing to the main wall [6000] at a higher level, sealing the larger blocks forming the lower section of [6000]. The lower course of [6000] clearly sealed a midden deposit containing limpets [6025] forming an early fill of the ditch and a compact layer of rubble [6026] producing a distinctive surface in the section.

A structured sequence of layers was retained by this north-western revetment wall [6000]. At the top of this stratigraphic sequence was a layer of loose rubble within a grey silty matrix [6019]. This sealed a layer of horizontally laid flags [6016], which in turn sealed angular to sub-angular platy rubble [6018]. This rubble sealed a layer of packed sub-rounded to sub-angular rubble [6026] (recorded in 2014 as [3141]). This sequence was also recorded in the evaluative work on the beach in 2014.

Plate 21: The ditch infill contained by the two revetment walls, seen in section in 2023

On excavation in 2023 the south-eastern wall [1520] appeared to be more complicated than expected with evidence for a relining or buttressing of the revetment wall. This original single faced walling was represented by [6004]. The wall [6004] was made from rectangular stones in the upper part, with a slightly better build quality then the later refacing. This wall face sealed a layer of packed sub-rounded to sub-angular rubble [6014]. This rubble layer seems to be the same as [6026], described above. The single-faced wall [6004] was backed by rubble [6009], sealing grey-brown silty clay [6010]. A layer of loose angular rubble [6011] was sealed by [6010] sealing in turn a loose grey-brown sandy deposit [6012]. A more consolidated mottled clay with fired clay mottles and shell [6013] was sealed by [6011]; this in turn sealed the surface of the consolidated rubble layer [6014].

Excavation in 2023 indicated that [6004] had signs of slumping. This seems to have been mitigated by the construction of a single faced wall acting both as a relining and also a support as a buttress to [6004], consisting of three elements. The upper element was a faced wall of larger rectangular blocky stoners [6001]; the back of these stones and the earlier face had been infilled with a mixed rubble core [6002]. These two contexts sealed a wall element [6003] consisting of a number of stones placed upright; these stones appeared to have buckled slightly into the ditch. This context in turn sealed an earlier faced wall element [6007]. This rebuild/repair event is characterised by the use of large stone blocks. The fill sequence of the ditch is described below.

In between these walls the rubble infill consisted of a series of fills. The latest [6022] comprised of smaller rubble within a grey-brown silt matrix, sealing the main infilling deposit [6005]. Adjacent to this is another later fill event [6023], characterised by the tip directions of the rubble. This deposit butted the faced wall interpreted as the ditch revetment [6001] and the main infill event [6005]. The main infilling rubble layer [6005] was composed of angular to sub-angular stone (recorded as [1003] and [3026] in previous years). This infill appears to have been rapidly deposited and the

direction and tip might suggest that this infill represented the levelling of rampart material coming from the north-west. This infill in turn sealed [6024], a grey-brown silt with some stone butting the south-eastern revetment wall [6003] and [6007]. On the opposite side an earlier fill [6025], containing shell midden, was sealed by [6005] and [6000]. A short length of possible walling [6008] was sealed by [6005].

These contexts sealed a silty clay rich deposit [6006] with charcoal flecking and animal bone. This deposit was excavated stepped out from the section for safety reasons. The appearance of the fill, being mainly silty clay, was very different to the overlying rubble infills suggesting an earlier ditch fill pre-dating the revetments. The excavation of [6006] was limited due to the water table affecting excavation visibility and recovery through observation of *in situ* material and sieving.

The construction of the revetments appears to represent a later event. There is evidence for a cut ([6027]) through [6026], the extensive layer of packed sub-rounded to sub-angular rubble. This layer of packed rubble (recorded in 2014 as [3141) appears to butt a large wall [3071]. This wall appeared to be concentric with the curvature of [1520] and [1518] suggesting a relationship. This large wall was later incorporated into Structure 2. The sequence backing [6000] / [1518] on the north-west, consisting of [6009], [6016] and [6018] are indicative of an association with construction with the retaining wall. The presence of a wall face [3147] identified in 2014 appears to provide a boundary to these deposits to the north-west.

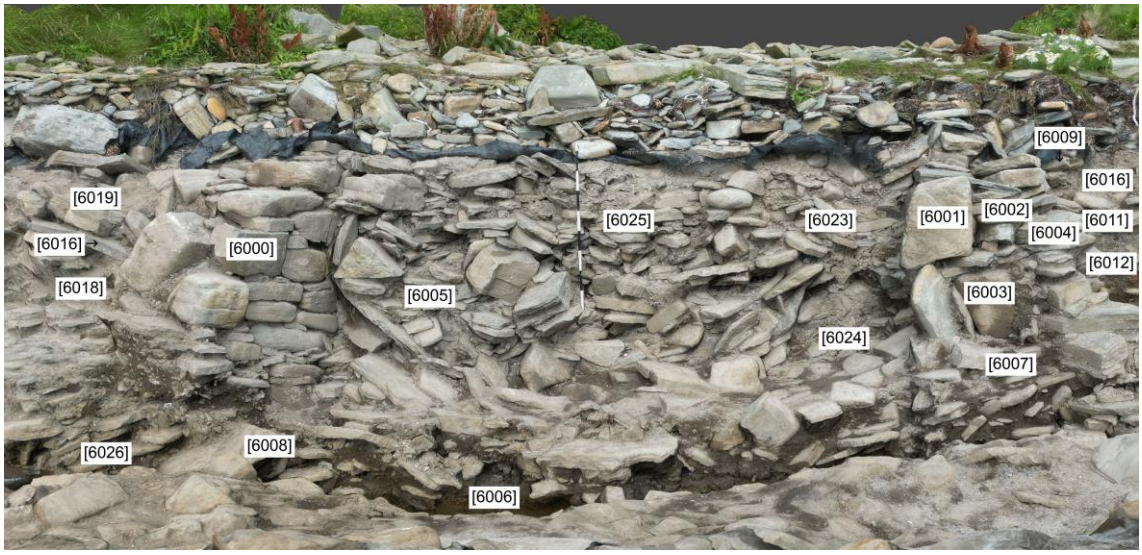

Plate 22: Elevation model of the ditch infill and retaining walls in Area D in 2023

2.4.3 Summary discussion

The stratigraphic associations described above, suggest that the contexts represent a ditch with at least two phases. The later phase is represented by the revetment [6000] and butting sequence [6019, [6016] and [6018] being the infill or core of a rampart. The revetment appears very similar in construction to the ditch revetments seen at Midhowe (Plate 23; Callander and Grant 1933). In 2014, a faced wall to the north-west [3147] was recorded which seems likely to have formed the inner face of this rampart. The south-eastern side of the ditch was retained by [6004]. This lining appears to have slipped in antiquity and was buttressed by a relining represented by a much coarser build; [6001], [6003] and [6007]. The presence of midden material [6025], clearly part of the ditch fill but sealed by [6000], indicates a major reconstruction event for the ditch. The compacted rubble layer [6026] appears to have been cut by an earlier phase of the ditch, which had been infilled by [6000] a silty clay rich in animal bone. Either side of this fill the

basal layer consisted of a compacted stone layer; [6026] on the north-west and [6014] on the south-east.

The evidence of a defensive ditch backfilled and built into by Structure 3, whose floors provided first century AD dates, provides a strong linkage to the early dates for the monumental roundhouse and other early structural elements excavated during the evaluation of the beach. Dating the infill sequence of the ditch and the surrounding material will provide an important extension of our understanding for the development of the Iron Age settlement at Swandro.

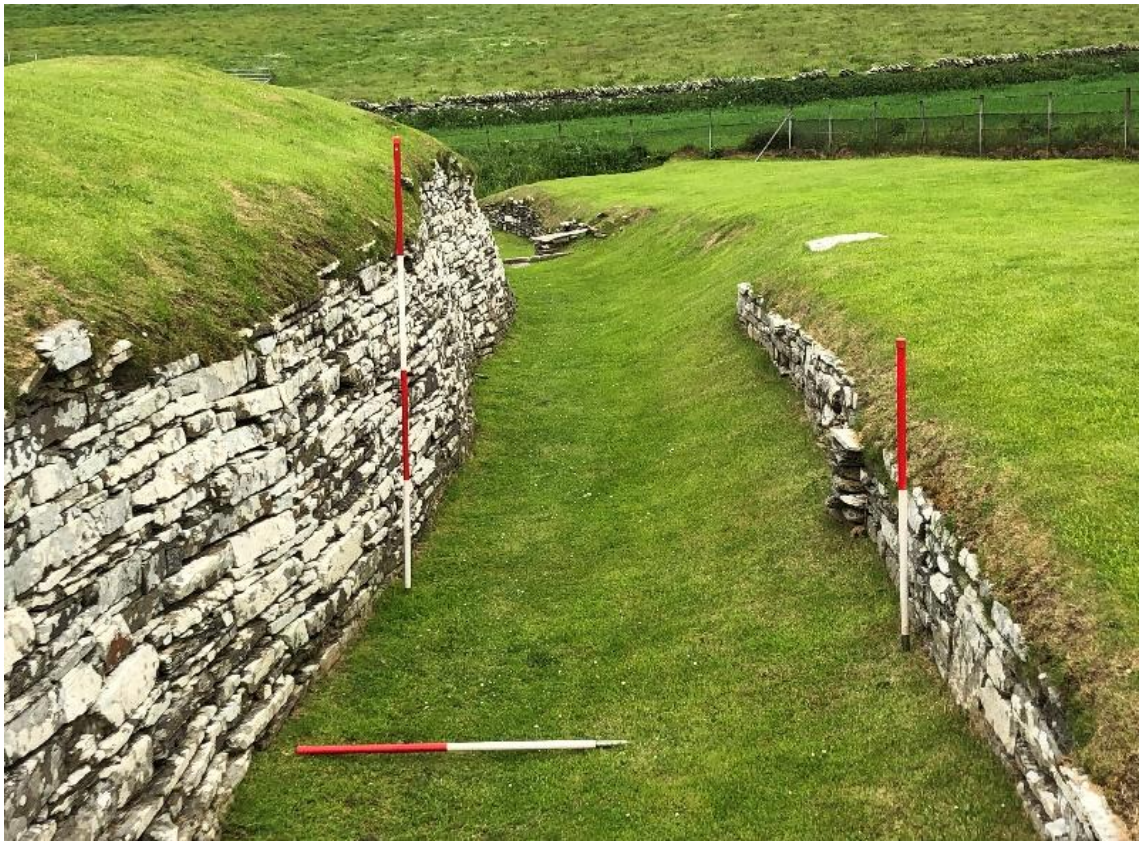

Plate 23: Revetted ditch as seen in the present day at Midhowe broch.

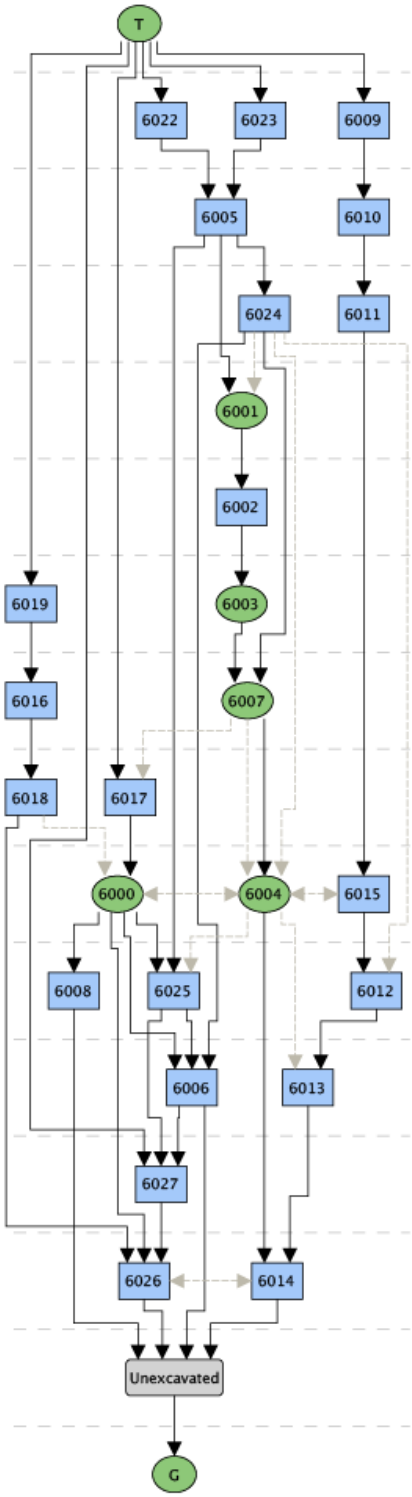

Figure 9: Area D: stratigraphic Harris matrix

2.5 Area F

2.5.1 Introduction

The Norse longhouse excavated by Grant in the 1940's and in the 1970's by Kaland, runs in a south-western – north-eastern orientation sloping gently to the north-east. The building has a strong resemblance to Jarlshof House 1 and as with that structure, the exposed walling suggests that this longhouse was modified over time. The structure seems to terminate just before a boundary wall (a drystone wall belonging to the enclosure of the fields of Westness) which has a distinct hump where it is built over a slight rise in topography, in line with the end of the longhouse. This rise in the land coincided with a slight rise and a distinct vegetational change in the field beyond. The area on both sides of the drystone wall was extremely wet and bog like, apart from the rise described above, with a more recently cut ditch between the longhouse and boundary wall. This higher and dryer area was in alignment with the centre of the longhouse and was targeted for excavation in 2023 to investigate the nature of the underlying sequence and any archaeological survival that might be associated with the longhouse (Plate 24).

Plate 24: Orthographic plan of Area F in relation to the Norse longhouse and the infilled Structure 3

2.5.2 The stratigraphic sequence (Plate 25 and Figure 10)

A trench ten metres by four metres running parallel to the drystone boundary wall (approximately south-east – north-west) crossed the projected alignment of the main longhouse. This area adjacent to the wall has not been cultivated in recent years due to the increasing wetness of the area. Under the turf a uniform light brown silty clay loam [5000] was identified. This deposit displayed no sign of charcoal or ash flecking. This soil contained a few small sherds of white

glazed pottery, a few fragments of coal and a 1944 penny. Iron staining on the fracture planes suggested seasonal waterlogging. The uniformity and depth of this topsoil suggests that this soil had once been cultivated. A one metre strip along the trench on the edge of the section parallel to the wall revealed the presence of a flag paved surface some 0.2m+ below the turf (Plate 26). Some of the stones showed plough marks. With the clearance at this level across the trench, the flagging proved to form a well-laid flag surface [5001]. Either side of the paving was a soil [5002], very similar to the topsoil but with a slightly yellower hue and with 15% small sub angular to sub rounded stones. Just above [5002] within the lower part of [5000] a fragment of a steatite vessel was found. This steatite sherd displayed classic Viking/Norse chisel marks. The edges of the sherd showed signs of abrasion, suggesting movement within the plough soil.

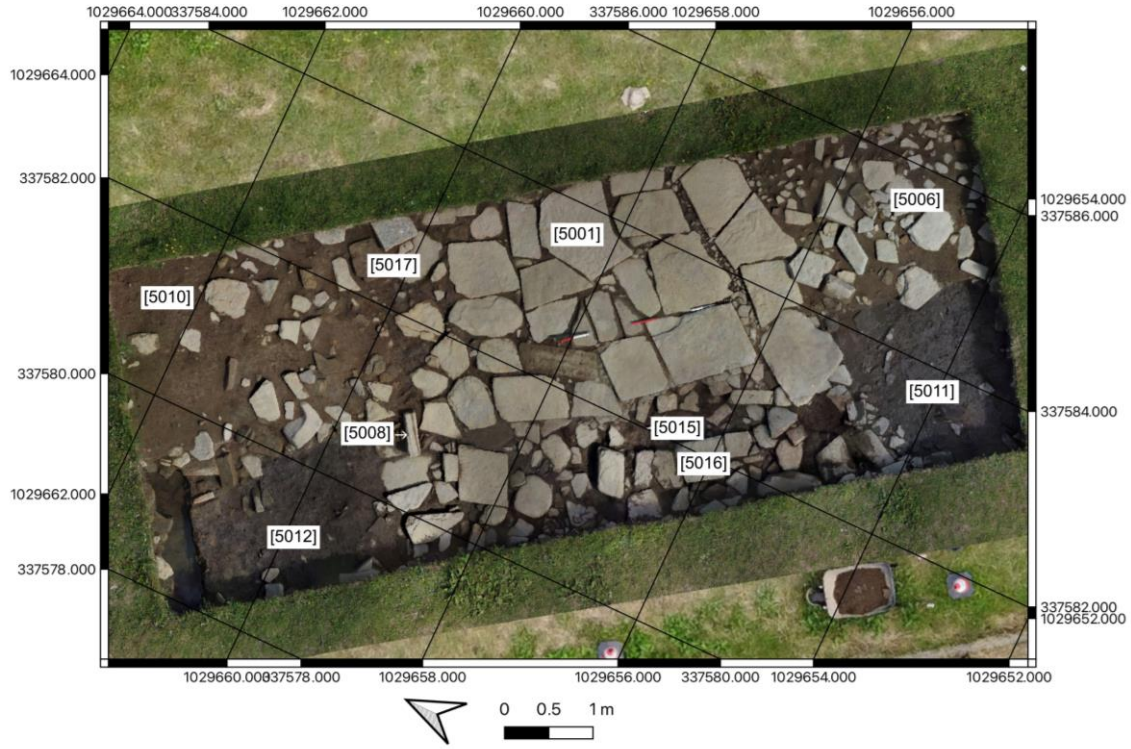

Plate 25: Orthographic plan of Area F with the sectioned paving

The flag surface [5001] appeared to be layered, the upper surface being composed of large platy flagstones, some with clear signs of working. One particular flag had working on three sides characteristic of Iron Age working seen on orthostats from the Iron Age phase of the settlement. Further investigation showed the flagging to be multi-layered with slightly smaller flags being used on the north-western edge. Two set upright stones, [5007] and [5008], represent the north-western limit to the paving. The south-eastern edge has no clear linear boundary, with the paving giving way to [5003] a layer with medium (15-30cm) angular-sub angular stones, sealed by [5002]. A discrete patch [5005] of small angular stones (10-15cm) sealed [5003] in the south-eastern corner of the trench. A similar layer to [5003] of angular and sub angular stones (10-40cm) again sealed by [5002] was present on the north-western side of [5001] and was recorded as [5004]. Both [5003] and [5004], partly sealed the paved surface [5001].

Context [5003] on the southern part of the flagging, sealed a layer of smaller cobbles [5006], which butted the paving [5001].

Plate 26: Area F showing the extent of the paving

In order to investigate the structure and nature of the layering of the flag surface and to establish the stratigraphic relationships with deposits to the north and south of the paving the trench was subdivided, with a two metre strip against the western (field wall) side being excavated. On the northern side of the paving, a silty clay with large stones [5010] was sealed by [5004]. Excavation of [5010] revealed a layer [5013] of a similar silty clay soil, but with stones which seemed to have more of a horizontal bedding. Beneath this matrix a darker silty clay [5012] was identified but excavation was hampered by the presence of the water table at this level.

On the southern side, a silty clay [5009] was sealed by the stone layer [5006], this deposit butted the lower levels of the flagged surface. This in turn sealed a distinct darker firm silty clay deposit [5011] with a midden like feel. Some bone fragments were found in these deposits. As with [5012] the excavation of [5011] was limited by the water table; this affected the ability to sieve the silty clay-based deposits and the excavators' ability to observe. An attempted sondage [5014] to investigate the depth of stratigraphy in the south-east corner could not be excavated due to the water table.

The flag surface seemed to present strong evidence for re-surfacing and a structured construction. The boundary edges of the paving seemed linear but not sharp on the southern

side. On the north an alignment of the two set upright stones [5007] and [5008] suggested an edge to the paving. A possible wall line [5017] was recorded on this northern edge, butted by the paving [5001].

The removal of the upper flags of [5001] revealed a thin dark silty layer containing small angular stone fragments; this in turn sealed a more substantial stone layer [5016]. This layer of horizontally laid stone, comprised of 70%+ angular to sub-angular stones (20-40cm) infilled by a silt-based soil, appeared to represent either an earlier paved surface or structured foundation for the flagged surface [5001]. A series of large stones sealed by [5016] on the north side was found to butt [5017]. This alignment might represent the base of a possible boundary wall or more structures flagging butting [5017]. This layer of stones sealed a series of small horizontally-laid rounded stones, which again seemed to butt against [5017].

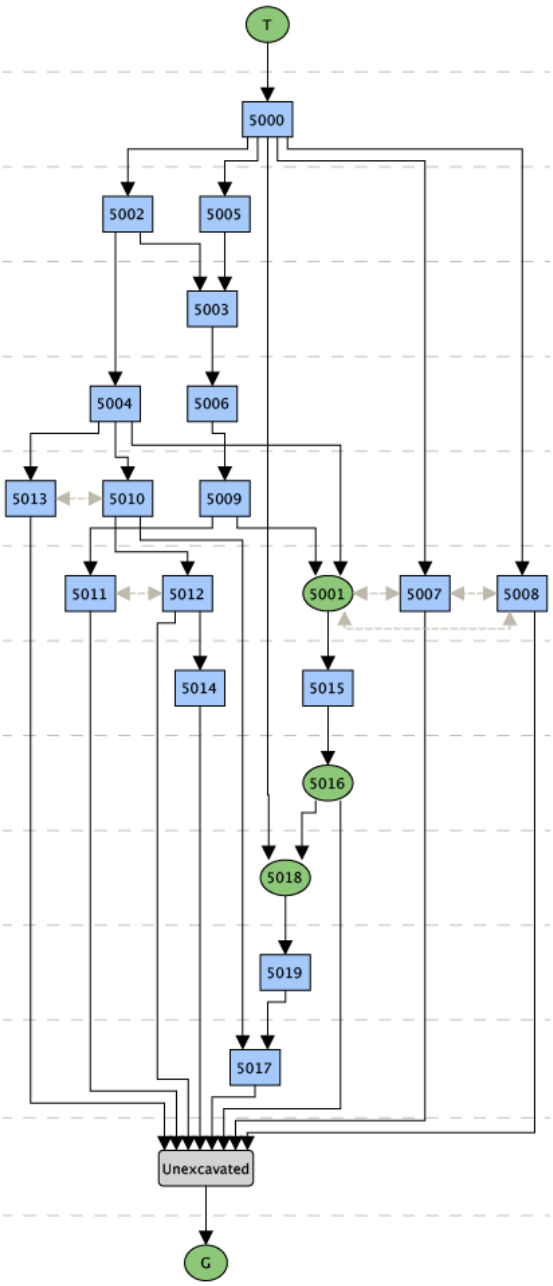

Figure 10: Area F stratigraphic Harris matrix

2.6 The longhouse

Although the longhouse (or houses) at Swandro (also known as the Westness longhouse) have been known for some time, there is no detailed published plan. It appears that the site was excavated by Grant in the 1940's though never published as he died before the end of that decade. It was certainly visible still in the 1960's when Radford described it as a complete example of a Viking hall and said 'This great hall measures over 100 feet long by some 30 feet wide, with internal divisions. The site was in the twelfth century connected with the chieftain Sigurd of Westness; there can be little doubt that the dwelling was the hall of his ancestors.' (Radford 1962). The site was excavated by Sigrid Kaland in the 1970's and though her excavations have never been fully published there is enough information to show that Radford was right in his estimation of the size of the main hall and the evidence of an upper (seaward) room with bench lines and a central long hearth certainly suggests a large Viking-period structure (Kaland 1973). Cross walls butting the long walls, seen both in Kaland's interim report and in the 2023 surveys suggest this structure had been modified later in its history.

Plate 27: The longhouse looking towards the sea (south-west)) showing the stone facing of the wall lines protruding from the turf

The area of the Westness longhouse (Plate 27) which is normally covered by dense vegetation was strimmed in 2023 to facilitate detailed recording. This comprised of aerial photography using a drone to produce a three-dimensional model, a contour survey using a Total Station and conventional planning of exposed stonework at 1:20 and elevations of surviving wall courses where visible. An earthwork survey was undertaken by Alan Braby. This was undertaken to provide context to the Swandro settlement of which this house forms the final phase. This survey also enabled the test trench (Area F) to be placed in context with the remains of the longhouse.

The new examination of the longhouse in tandem with the earlier beach excavations and the excavation of Structure 3 proves the longhouse originally extended over the area of Structure 3 and into the eroding beach face, making the total length of the house over 30m, which is certainly bigger than most such structures known in the Northern Isles.

Re-examining the published reports by Sigrid Kaland in tandem with the survey suggests that the main structure is a Viking Age longhouse which has been later modified with additional internal walls. There are several examples in the Northern Isles of later modifications of original longhouses by the subdivision of the internal area, of which the clearest example is probably House 1 at Jarlshof, Shetland, where a substantial cross wall is built directly across the main long hearth (Hamilton 1956). Not all of the features seen by Kaland are obvious in the area today; the second building which Kaland thought lay parallel to the main house is not clearly visible. However, the main structure is very clearly visible and the central doorway in the landward short wall still has an exposed threshold stone. This short wall has been damaged by the later cutting of a ditch running along the postmedieval drystone field wall and it is unclear whether the structure or associated features may or may not have continued landward into the next field. The field wall shows a distinct rise over this area which suggests some kind of deposits beneath it and of course the paving uncovered in Area F is in line with the longhouse.

2.7 Contour survey at Knowe of Swandro

Michal Szedzielorz

During the 2023 field season, a contour survey was conducted to record the topography of the Knowe of Swandro and its immediate environs to provide a context for the excavated areas. The survey utilised a grid system with two metre intervals, covering a rectangular area measuring 84 metres in length and a maximum width where possible of 48m. The vegetation in the unstrimmed areas of the site posed considerable problems; it was 1-1.5m high in places. Due to this not all grid lines were evenly sampled, as depicted in the accompanying illustration in Figure 11, which overlays the measured points on an aerial image of the site (courtesy of Lindsay Kemp). A similar grid layout was also established on the opposite side of the drystone wall, where Area F was subsequently excavated (designated points for this grid range from CON001 00029 to CON023 00169).

A total of 848 measured points were input into the QGIS software for subsequent analysis. The resulting map, presented below, was generated by creating a Digital Elevation Model (DEM) from the measured points (Figure 12). This DEM was then subjected to the Terrain Ruggedness Index (TRI function) to effectively convey the variation in elevation between adjacent cells within the previously generated DEM.

The DEM was constructed employing the Sibson method, with a cell size set at 1.0000. Subsequently, resampling of the DEM layer was implemented with cubic interpolation for both zooming in and out settings, utilising an oversampling factor of 2.00, with early resampling options activated.

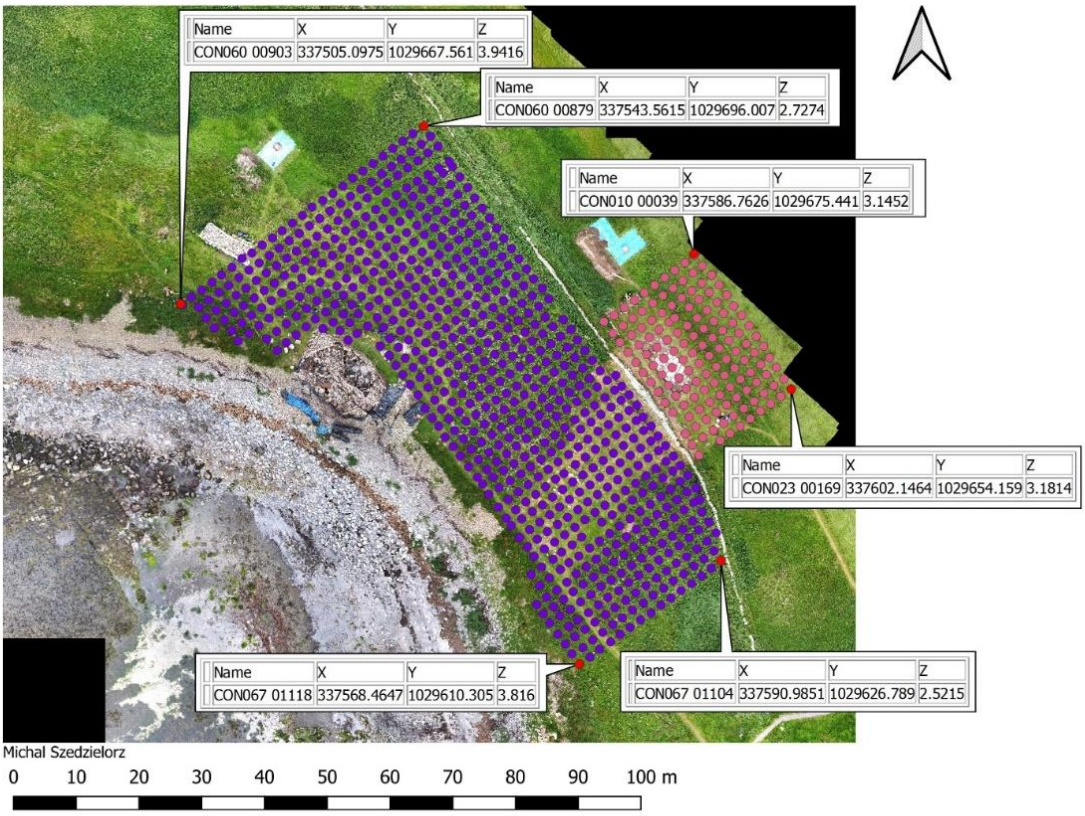

Figure 11: The points recorded during the 2023 contour survey, with the drone imagery of the site as a backdrop, along with the coordinates of the corner points (Michal Szedzielorz, Gavin Edwards and Lindsay Kemp)

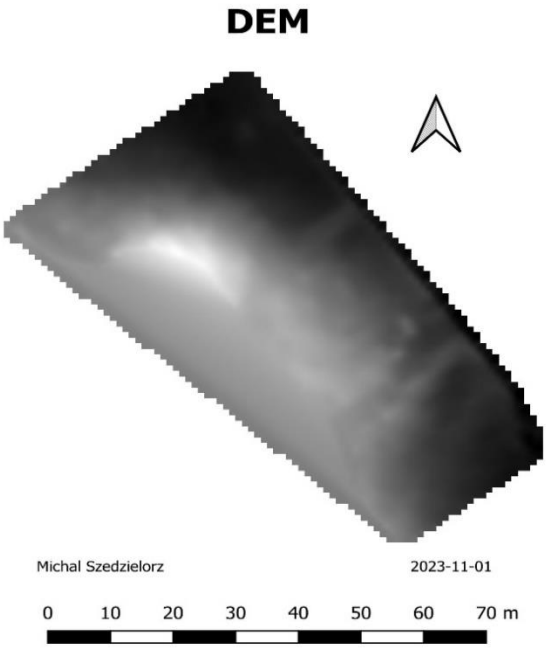

Figure 12: Digital Elevation Model (DEM) generated in QGIS (Michal Szedzielorz)

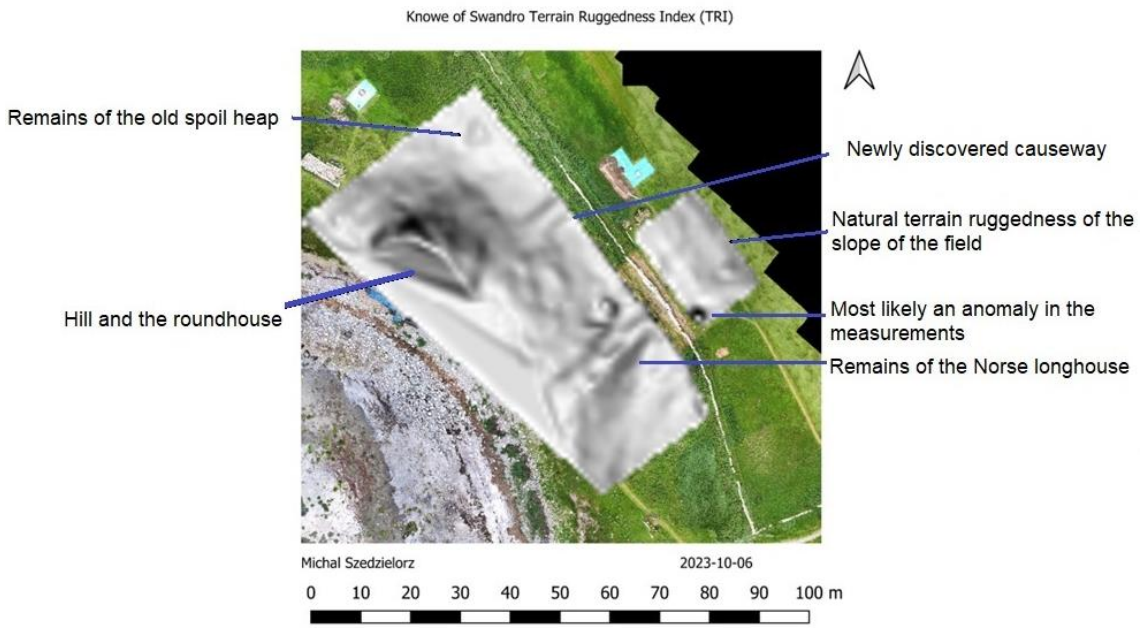

Figure 13: TRI map featuring feature descriptions, generated using QGIS software (Michal Szedzielorz and Lindsay Kemp)

The contour survey provided intriguing results, most notably the detection of a previously unrecorded feature situated to the northeast of the Knowe of Swandro (Figure 13). Tall vegetation had previously concealed this structure. The newly revealed feature is an area running north-east away from the main site with a line of kerb stones along both flanks. The revealed section is seven metres in length and four metres in width and appears to extend under the present day field wall which can be seen to rise up over it. It is associated with a deep ditch which runs alongside the field wall and well-constructed stone walls on either side provide a culvert over it. Further investigation will be required to ascertain the true age and intended purpose of the 'causeway' as it does not feature on the 19th century maps of Rousay or other historical records (Ordnance Survey 1882). The absence of any documentation of this structure on the oldest Rousay survey maps, coupled with its location beneath the still extant stone wall, strongly suggests that it predates the mid-19th century.

The full report has been archived with the project. Michal Szedzielorz is a placement student at the University of Bradford (2023–24).

3. Environmental Remains and Scientific Analysis

Julie M. Bond

3.1 Introduction

The sampling strategy utilised at Swandro originated from the experience gained in the integrated study of the Tofts Ness prehistoric landscape on Sanday, Orkney (Dockrill *et al*. 2007a; Dockrill and Bond 2009), refined for the excavations at Old Scatness (Dockrill *et al.* 2007b). It relies on the systematic bulk sampling of *in situ* material that has been undisturbed either by human or animal disturbance or the by action of the sea.

The samples are assigned an unique sample number identifier and their three-dimensional position is recorded, linked to the Ordnance Survey datum and the National Grid, essential pieces of information when working with complex deep stratigraphy sites where more than one type of sample may be taken from a deposit. To minimise error, a single number series is used both for samples and small finds, though 'blocks' of numbers are reserved for samples so that they are more easily recognised (Dockrill *et al.* 2007b).

All undisturbed archaeological deposits excavated are dry-sieved to ensure maximum recovery.

A full list of samples taken during the 2023 excavations is presented in Appendix 8.

3.2 Sample types

Bulk sample (flotation samples)

Samples (ideally 60 litres) are taken from every potentially datable and stratigraphically secure deposit. These samples are processed in the field using a Cambridge Flotation Tank, with the carbonised material being captured by a 500 micron sieve (300 microns is usual on many sites but Northern Isles soils often have a high silt / clay component that clogs the mesh and the smaller size adds little extra information). A 500 micron mesh holds the heavy fraction. Both fractions are then hand sorted.

Spot sample

A discrete small sample taken from areas of concentrated material, such as patches of charred organic remains or a concentration of fish bone. They normally consist of a 300mm^2 bag (approximately five litres). These samples are hand-processed in the laboratory rather than put through the flotation machine. They may also be taken in addition to the bulk sample.

GBA - General Biological Analysis

A sample of five to ten litres. This type of sample is taken if there is suspected potential for more unusual survival, e.g. the presence of waterlogged material (possible given the evidence of a spring line under the cairn), insect remains or parasite remains. The samples will be processed in the laboratory rather than in the flotation machine, though routine bulk samples may be taken from the same deposit.

Block or Monolith samples

These are samples taken for specialist research on soil structure and formation. These might be taken from compressed floor surfaces or buried soil horizons thought to have value in e.g. showing micro-structure using thin section micromorphology. Samples are usually taken in Kubiena tins and double bagged.

Magnetic Susceptibility

This technique is used to identify soils with high iron content that have the potential to become magnetic when exposed to a magnetic field derived from an electric current in a coil. These in situ measurements (using a hand-held magnetic susceptibility meter) provide detail on burnt features and the content of midden material. Samples may be given a sample number and their three-dimensional location is recorded.

Phosphorus

This technique is not routine, being used only to answer directed research questions. The phosphorus content of soil can be enhanced by the decomposition of organic materials in the past and this method may be useful in understanding depositional environments inside the chamber and passageway.

Small samples (2.5 litres) for both laboratory Magnetic Susceptibility and Soil Phosphorus measurements and e.g. palynology may be taken if requested by specialists or from samples thought to have potential to add significantly to the research. Lipids can persist in archaeological deposits and their utility in examining pottery use is well proven. At Swandro, if the depositional conditions are suitable we would use soil samples from the basal and floor deposits of the chamber and passage to identify decay products from cadavers that might indicate the laying out of bodies.

3.3. Animal bone assessment

Assessment of the animal bone assemblages from the 2023 season is currently underway (November 2023). Preliminary work suggests that once again there are more pigs from the Iron Age deposits than might be expected but not the large number of neonate animals seen in the Middle Iron Age deposits. There are some large fish bones from both Area F and surprisingly, the ditch deposits in Area D (it is usually assumed that large fish are the product of deep-sea fishing which is not usually a feature of Iron Age sites as it requires boat technology not available at this time).

4. A note on artefacts from the 2023 Season

Louise D. Brown and Julie M. Bond

Work on the artefact assemblage from the 2023 excavations is ongoing. The term ‘small find’ refers to the single unique identifier attributed to an individual artefact, or in some cases groups of an artefact type found together, for example a group of prehistoric pottery sherds. The exact location of each ‘small find’ is three-dimensionally recorded using a total station. This allows for analysis of the spatial distribution of the assemblage. In order to avoid duplication and confusion, the same number sequence is used for the environmental samples (see above) which are also three-dimensionally recorded and appear within the list of Small Finds in the database.

Research into the artefact assemblage is ongoing and analysis of the individual assemblages will be carried out by specialists ahead of the full publication of the site. As an overview, Plates 28 and 29 show the spatial distribution by find type for the 2023 excavation season.

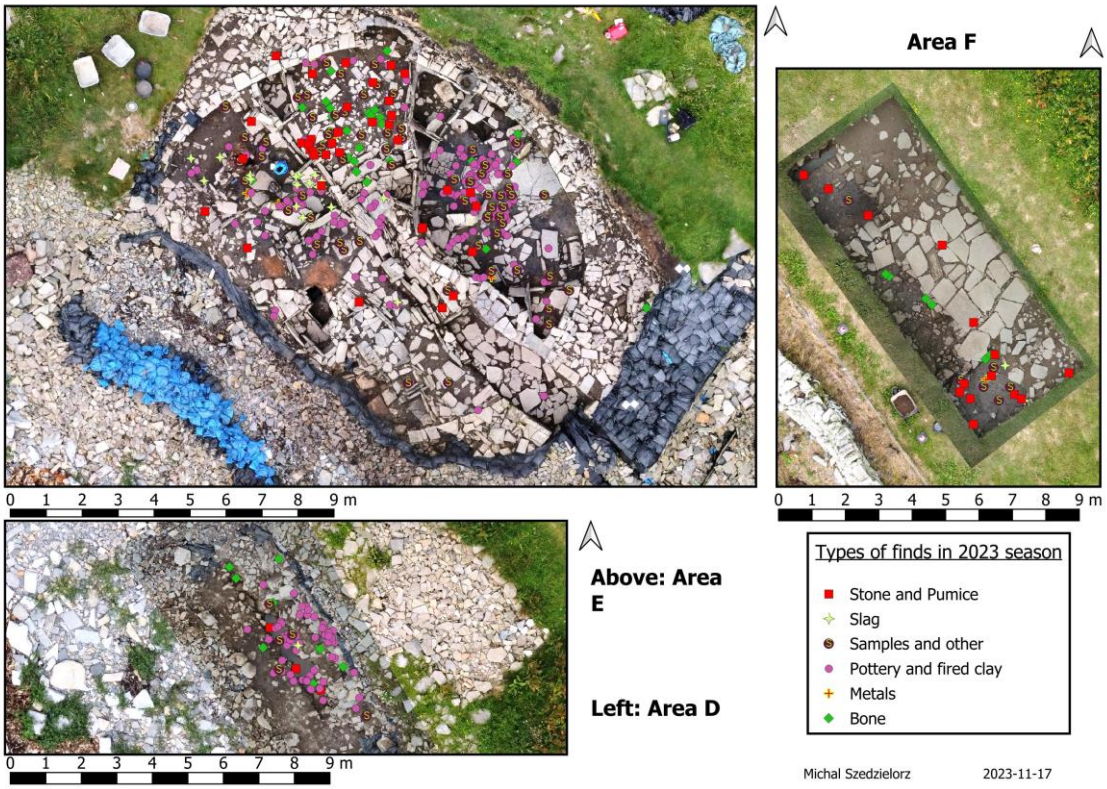

Plate 28: Distribution of finds by type from the 2023 field season (Michal Szedzielorz using base imagery by Lindsay Kemp)

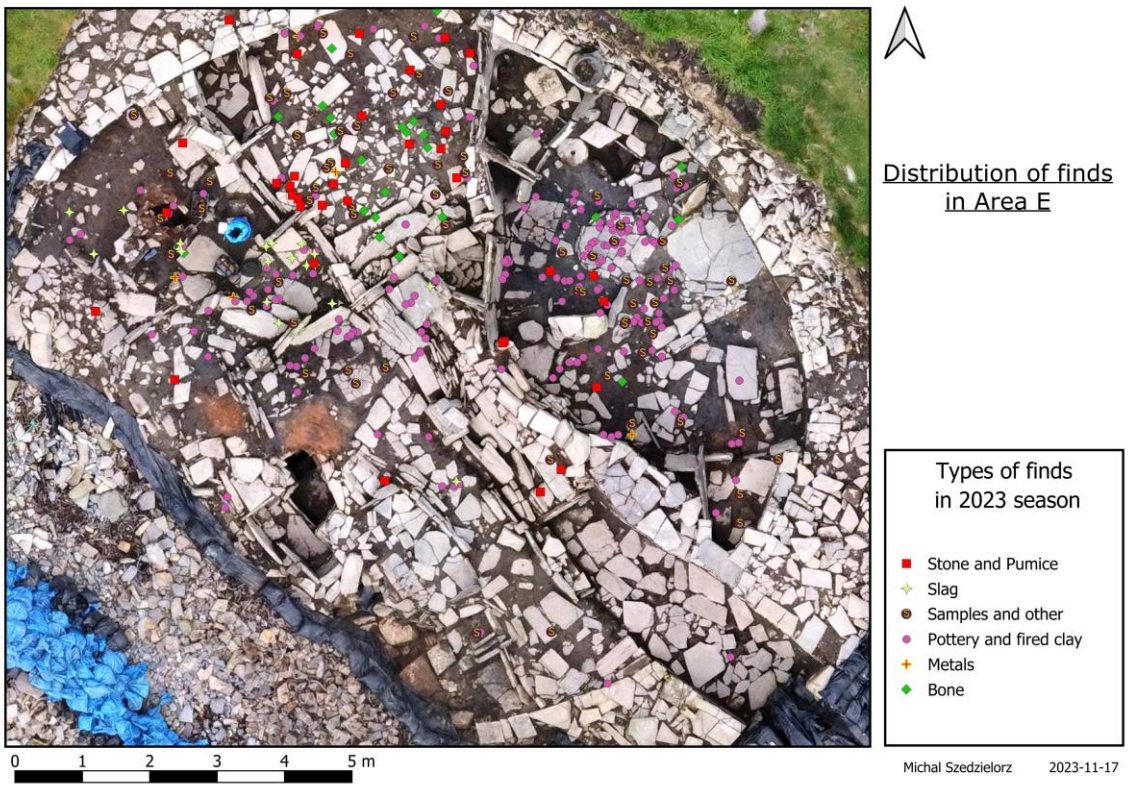

Plate 29: Distribution of finds in Structures 5 and 6 by type from the 2023 field season (Michal Szedzielorz using base imagery by Lindsay Kemp)

5. Project Outcomes and Personnel

5.1 Project outcomes

5.1.1 Presentations, posters, talks and seminars

Julie Bond and Stephen Dockrill. *Tidal loss: Swandro, Rousay, Orkney a multi period settlement being lost to the sea.* NABO 2022 Collaborative Meeting, Reykjavik Iceland Sept. 2022.

Julie Bond and Stephen Dockrill. *Tidal loss: Swandro, Rousay, Orkney a multi period settlement being lost to the sea.* Peebles Archaeological Society, February 2023.

Julie Bond, Stephen Dockrill and Nicole Burton. *The Relentless Tide: Swandro, a Multi-period Settlement Being Lost to the Sea.* Lecture, Society of American Archaeology Annual Conference, Portland, Oregon April 2023.

Hannah Koon, Julie Bond *Subsisting on the edge: faunal and isotopic evidence reflecting subsistence strategies employed at the Knowe of Swandro in Rousay, Orkney*. European Association of Archaeologists, Belfast August 2023.

5.1.2 Project-related publications 2023–2024

Bond J M and Dockrill S J 2023 Excavation at the Knowe of Swandro in 2022. *Orkney Archaeological Review*.

Bond J M and Dockrill S J 2023. Swandro and the Sea. *Archaeology Scotland* Issue 47, 10-13.

Dockrill S J and Bond J M 2023. Swandro. In *Rousay-Egilsay-Wyre Stepping back in time: Archaeology and History Booklet.* Rousay Egilsay and Wyre Development Trust, 13-14.

Hilts, C 2023. The Knowe of Swandro; excavating eroding archaeology on Rousay. *Current Archaeology* Issue 396, March 2023, 20-23.

5.1.4 Broadcast media

- Orkney radio, Summer 2023

5.1.5 Other outcomes

Prof. Steven Hartman
Executive Director, BRIDGES Coalition
BRIDGES Flagship Hub, Global Futures Laboratory, Arizona State University
steven.hartman@asu.edu

Dear Dr Bond,

It brings the UNESCO-MOST-BRIDGES team great pleasure to inform you that your project has been chosen to be included in the brochure titled *"BRIDGES: A Humanities-led UNESCO Coalition for Sustainability; Toward a Global Mapping of Integrated Societally Co-produced Sustainability Science".* The selection process was rigorous, and your project stood out among many remarkable submissions as an example that will undoubtedly inspire and inform scholars, practitioners, and policymakers across various fields. Your project's inclusion is a testament to its quality and the impact it has in shaping sustainable futures and driving positive change.

The brochure is designed to offer a preliminary indicative overview of the diversity and relevance of a humanities-led sustainability science approach, and to demonstrate its importance in actively addressing the lived realities of vulnerable communities increasingly troubled by pressures exerted through the climate changing, biodiversity loss, species extinction and pollution. It represents the beginning of a BRIDGES signature project designed to make community-anchored and humanities-driven sustainability science, education and action more visible and accessible to the wider scientific community, as well as actionable to policymakers and society more generally. The UNESCO-MOST-BRIDGES programme is now approaching donors to support a three-year project intended to enable a more comprehensive mapping of humanities-led, community-driven sustainability science.

Finally, we would like to acknowledge the significance of your work and express our appreciation for your submission, which embodies the spirit of BRIDGES' transdisciplinary and co-productive approach. You can access the final version of the brochure here.

If you have any questions or require further information, please do not hesitate to reach out to us at unesco.bridges.hub@uwtsd.ac.uk. We value your continued support and engagement in the UNESCO-MOST-BRIDGES programme.

Sincerely,

Prof. Steven Hartman
Executive Director, BRIDGES Coalition

5.2 Personnel

5.2.1 Excavation

Excavation Director: Dr Julie M. Bond (University of Bradford)

Excavation Director / Photographer: Dr Stephen J. Dockrill (University of Bradford)

Supervisors: Alan Braby, Dr Caz Mamwell, Sarah George (University of Bradford), Jackie McKinley (Wessex Archaeology)

Finds recording: Talia Ronge, Rose Karpinski

Archaeometallurgy: Dr Gerry McDonnell

Survey and three-dimensional finds documentation: Tom Sparrow (University of Bradford), Gavin Edwards, Michal Szedzielorz (placement student, University of Bradford)

Three-dimensional laser scanning: Nicole Burton

Three-dimensional photogrammetric recording: Lindsay Kemp (Archaeological Services WYAS)

Archaeomagnetic dating: Dr Cathy Batt (University of Bradford)

Experienced excavators: Alice Beasley (Allen Archaeology), Keith Prosser, Tom Ryan, Rebecca Nicholson, Klaudia Kvockova (Archaeological Services WYAS), Poppy Nunn (Archaeological Services WYAS), Hannah Johnston, Chloe Coombs, Karla Itala

Placement students: Aidan Jacques, Katy Myers, Michal Szedzielorz

Students and Volunteers

5.2.2 Post-excavation

Illustrator: Alan Braby

Environmental processing: Dr David Lawrence

Post excavation consultant: Louise D. Brown

Post excavation assistant: Isabel Carson

Placement students: Aidan Jacques, Katy Myers, Michal Szedzielorz

5.2.3 Trustees: Swandro – Orkney Coastal Archaeology Trust

Former Patron: His Royal Highness The Prince Charles, the Duke of Rothesay

Chair: Dr Stephen J. Dockrill, University of Bradford

Vice-chair: Dr Julie M. Bond, University of Bradford

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Charity Trustees: Professor Jane Downes, University of the Highlands & Islands Archaeology Institute; Julie Gibson, Orkney County Archaeologist; Dr Dave Lawrence; Professor Tom McGovern, City University of New York; Dr Ruth Maher, William Paterson University; Dr Ingrid Mainland, University of the Highlands & Islands Archaeology Institute; Sigurd Towrie.

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Appendix 1: Context register

Str. No. – Structure number

PMR – Primary Matrix Relationship

Context	Area	Str No	TYPE (1)	Type (2)	Description	Interpretation	Method	PMR: This context is BELOW	SAME AS	Equal To	Contemporary With
3802	E	6	STONE	HEARTH BASE	Hearth stone in Structure 6, sealed by 4007 pebble layer, butted by 3800	hearth base	TROWEL	4007			
4051	E	6	LAYER	SOIL	Dark earth next/part of furnace in Structure 6 sealed by flags 4029 seals furnace material 4006		TROWEL	4029			
4052	E	6	LAYER	SOIL	Silty brown layer with patches of charcoal and clay butts furnace 4006, sealed by flag 4018 in Structure 6		TROWEL	4018			
4053	E	6	STONE	WALL?	Structural stones (part of wall)? with baked clay and charcoal patch 4054 on surface. Sealed by 4006, 4054, butted by shillet 4055 and 4052, Str6.	Part of a wall or pier next to furnace?	TROWEL	4054			
4054	E	6	LAYER	ASH	Charcoal and baked clay patch next to furnace, seals stones 4053, sealed by 4000, Str6.		TROWEL	4000			
4055	E	6	LAYER	RUBBLE	Shillet layer butting 4053, sealed by flags 4029, near furnace. Str6. Removed before physical description could be recorded		TROWEL	4029			
4056	E	6	FILL	FURNACE	Orange and black friable fill of furnace in Structure 6, sealed by 4006 butts lining 4057	furnace fill	TROWEL	4006			
4057	E	6	STONE/CLAY FURNACE LINNING	WALL	Vitrified stone and clay in furnace in furnace, Structure 6; sealed by / contains 4056 butts 4058	Furnace Linning	TROWEL	4056			
4058	E	6	WALL	CLAY & STONE	Stone blocks and fired clay in furnace (Structure 6). Contains 4057, butted by 4052	wall of furnace	TROWEL	4052			
4059	E	6	STONE	SURFACE	cracked stone bottom of furnace, sealed by 4056, contained by 4057, 4058.		TROWEL	4056			
4060	E	6	LAYER	CLAY	Mid brown clayey matrix with yellow clay inclusions, near furnace. Seals 4058, sealed by (or contained by?) 4052.		TROWEL	4052			
4061	E	5	LAYER	SOIL	layer of loose soil and small angular rubble sealed by flagging 3457		TROWEL	3457			
4062			WALL	CORE	wall core contained by 1020 - need to look at earlier number.						
4063	E	5	FLAG	STONE	large flag with in cell of Structure 5 forming floor, sealed by 4061, seals 4064	floor of cell	TROWEL	4061			
4064	E	5	LAYER	SOIL	Stone (shillet) and loose fill of door/cell feature in Str5, sealed by 4063		TROWEL	4063			
4065	E	6	LAYER	SAND	Sandy fill of alcove in Structure 6 sealed by 4010, butts 3721, 4066		TROWEL	4010			
4066	E	6	WALL	INNER-FACE	Foundation stones at front of alcove in Structure 6 (wall base). Butted by 4065, 4010; sealed by 3901 Equal to 3772, 1042.		TROWEL	3879			
4067	E	6	LAYER	SURFACE	Floor level in Structure 6 inner room sealed by 4010, butts 4066, 3794, 3722, 3793, 3861, contains 4068	floor surface	TROWEL	4010			
4068	E	6	LAYER	ASH	Patch of charcoal and yellow clay derived from the wall contained by 4067, in Structure 6 inner room. sealed by 4010, butts 3722.			4010			

Context	Area	Str No	TYPE (1)	Type (2)	Description	Interpretation	Method	PMR: This context is BELOW	SAME AS	Equal To	Contemporary With
4069	E	6	FLAGS	STONE	Flags in Structure 6 inner room, sealed by 4067, 4010; located between hearth kerb 4071 and wall 3722.			4067			
4070	E	6	FLAGS	STONE	Step into the inner room of Structure 6, sealed by 4010, butted by 4067, butts orthostat 3972	one of a st of steps/ door sill between furnace room and the inner room.	TROWEL	4019			
4071	E	6	STONE	KERB	northern end orthostat kerb of hearth in the inner room of Structure 6;sealed by 4010, butted by4067, 4069, and flag floor of hearth 4074	hearth kerb	TROWEL				
4072	E	6	STONE	KERB	one of the kerb stones of the hearth in Structure 6, inner room: sealed by 4010, butted by 4067 and flag base of hearth 4074.	hearth kerb	TROWEL				
4073	E	6	STONE	KERB	kerb stone to hearth in the Structure 6 inner room: sealed by 4010, butted by 4067 and base of hearth 4074	hearth kerb	TROWEL	4074			4071, 4072
4074	E	6	FLAGS	SURFACE	cracked flags and charcoal flecked surface of hearth in Structure 6 in the inner room: sealed by 4010, butts kerb stones 4071, 4072, 4073			4010			
4075	E	6	WALL	STONE	Short stretch of tumbled walling between wall 3458 (between Strs 5 & 6) and wall 3858 (in Str6). Butts 3458, 3858, 3900. Sealed by?		TROWEL				
4076	E	6	WALL	STONE	short stretch of tumbled walling between wall 3595 (Structure 6) and orthostats in Structure 5; butted by 3595, butts 4003.		TROWEL	3595			
4077	E	6	LAYER	STONE	Patch of small pebbles under hearthstone 3802 in Str6 corridor. Butted by 4080	Bedding for hearth stone 3802	TROWEL	3802			
4078	E	6	ORTHOSTAT	STONE	Blocky low set stone (orthostat) in Structure 6 furnace room; butted by 3941, sealed by 4016, 4079, butts 3981, 4021	Possible step / entry into furnace room ? seals hearth 3803	TROWEL	4091			
4079	E	6	FLAGS	STONE	Flagging in Structure 6 furnace room, seals 4078, sealed by 4016.			4016			
4080	E	6	LAYER	CLAY	Yellow clay (bedding for hearth stone 3802 in Structure 6; sealed by 3802, butts 4077	bedding for hearh	TROWEL	3802			
4081	E	5	LAYER	ASH	Black ash sealed by 4036; seals yellow clay 4082; Structure 5, may equal 4013?		TROWEL	4036		4013?	
4082	E	5	LAYER	CLAY	Yellow clay, Structure 5, sealed by black ash 4081		TROWEL	4081			
4083	E	5	FLAGS	STONE	Flagging (large well fitted floor surface) in Structure 5, sealed by 4013 (charcoal rich floor layers) Context 4083=4098	flooring associated with door pivot	TROWEL	4013	4098		
4084	E	5	RUBBLE	STONE	Shillet / small rubble sealed by flag 4050 in Structure 5		TROWEL	4050			
4085	E	6	LAYER	SHILLET	Shillet and small amounts of soil between collapsed wall 3593 and orthostats which have collapsed onto it in Structure 6, sealed by 3526. -May have an earlier number?	demolition collapse	TROWEL	3526			
4086	E		LAYER	RUBBLE	Loose large stones and shillet with voids , Sealed by 3807, seals 3722 (forming the inner walls of Structure 5 & 6)	Rubble infill of Rebuilt Roundhouse wall	TROWEL	3807			
4087	E	5			Grey black deposit under hearth stone 3887, in Structure 5		TROWEL	3887	4012		
4088	E	5			Orange baked clay and stone fragments under hearth stone 3867 in Structure 5	hearth bed	TROWEL	3867			
4089	E	6	LAYER	SOIL	Grey-brown silty layer with charcoal flecking; sealed by walls 3858, 4075, seals flag 4090 in Structure 6 by entrance into Structure 5.		TROWEL	3058			
4090	E	6	FLAGS	STONE	Flag sealed by 4089, in passage between Structures 5 & 6 (in Structure 6) Butted by structure 6 collapsed orthostats.	may be a shapped Orthostat originally as the top is notched.		4089			

Context	Area	Str No	TYPE (1)	Type (2)	Description	Interpretation	Method	PMR: This context is BELOW	SAME AS	Equal To	Contemporary With
4091	E	6	LAYER	MIDDEN	Layer of silty grey-brown material with flecks of charcoal, yellow clay, in â€˜furnaceâ€™ room Structure 6. Sealed by flags 4079, butts sill 4078			4079			
4092	E	5	STONE	PACKING	stone levelling in corbelled cell in Structure 5, sealed by 4061 and flag 3457.	leveling support for flag 3457	TROWEL	4061			
4093	E	6	LAYER	STONE	Shillet and grey-brown silty deposit sealed by 4076 in passage between Structure 5 and 6	part of general collapse		4076			
4094	F	5	HEARTH	BASE	Red-orange to orange burnt clay forming hearth bed, in Structure 5, sealed by 4088	hearthbase	TROWEL	4088			
4095	E	6	LAYER	SURFACE	Flags and dark earth, sealed by 4091 in furnace room, Structure 6. Same as 4111 (double number)		TROWEL	4091	4111		
4096	E	6	FLAGS	STONE	Paving outside wall of Structure 5 in new passage between corridor and Structure 5 . Sealed by 4085, butted by Orthostat 3526.butts orthostat 3984			4085			
4097	E	6	STONE	HEARTH BASE	Hearth stone in Structure 6, sealed by 4007 pebble layer, butted by 3800 ,hearth base in Structure 6, fully revealed stage of excavation, flag dips to the north, doesnâ€™t appear to be slumping as no width in the cracks.	stone hearth base	TROWEL	4007			
4097	E	6	FLAGS	STONE	hearth stone in â€˜corridorâ€™, Str6. sealed by pebble layer 4077, butted by 3800		TROWEL	3800			
4098	E	5	FLAGS	STONE	Flag floor in Structure 5, flags are well set with patches of 4101 between flags forming the floor to Structure 5; sealed by 4013 equal to 4083.	flagged floor to Structure 5	TROWEL	4013	4083		
4099		5	ORTHOSTAT	STONE	Treashold / sill stone adjacent to pivot in the door way leading into Structure 5 (angular stone 70cm x 20cm) sealed by 4100			4100			
4100	E	5	WALL	STONE	Wall element of large stones forming a faced blocking; sealing threshold stone 4099, in Structure 5; the upper stone of this; sealed by later passage wall 3520 & 3521	Blocking; this wall element may have formed an upper entrance into Structure 5.	TROWEL	3521			
4101	E	5	LAYER	ASH	Soil (mainly black ash rich midden in between flags 4098 forming a Flor surface with the flags, sealed by 4013	floor surface to Structure 5	TROWEL	4013			
4102	E	5	LAYER	ASH	Dark greyish ash in Structure 5, sealed by 4012: may be a lower level on the 4012 build up of floors.	Floor surface, may be a earlier level of 4012.	TROWEL	4012	4107		
4103	E		LAYER	ASH	Ashy layer in Structure 6 â€˜corridorâ€™ Sealed by 3878 paving, butts 3591, 3879, 3951, 3531	Lower layers of ashy ashy deposits in corridor- contains rotery quern	TROWEL	3878			
4104	E	6	STONE	RUBBLE	Equal to 4088: Shillet and stone in Structure 6 inner room, sealed by collapsed orthostat 3984, seals rubble charcoal, clay deposit 4105.	collapse	TROWEL	3984		4088	
4105	E	6	STONE	RUBBLE	Rubble, charcoal and yellow clay in remaining collapse in inner room Structure 6, sealed by 4104, seals 4103	collapsed stone pressed into floor surface.	TROWEL	4104			
4106	E	6	LAYER	ASH	Layers of ash and soil sealed by flags 3837		TROWEL	3837			
4107	E	5	LAYER	ASH	Ashy grey layer in Structure 5; sealed by 4012 (lower part of 4012), same as 4102	floor surface	TROWEL	4012	4102		
4108	E	5	LAYER	ASH	Patch of orange and black ash with fired clay fragments in Structure 5;sealed by 4102; butting 4094	Ash rakeout from hearth	TROWEL	4102			
4109	E	6	FLAGS	STONE	Flagging forming a stone surface in Structure 6 passageway next to Structure 5. Butted by 4110, butts 4099		TROWEL	4110			
4110	E	6	STONE	RUBBLE	Collapse of sloping stones in passage next to Structure 5; butts 4109, 4099, 4096. sealed by 3858	May represent collased walling	TROWEL	3858			
4111	E	6	LAYER	SOIL	charcoal (large lumps) in grey-brown silty deposit, sealed by 4091, butts 4021, 4078. Furnace room, Str6.		TROWEL	4091			
4111	E	6									

Context	Area	Str No	TYPE (1)	Type (2)	Description	Interpretation	Method	PMR: This context is BELOW	SAME AS	Equal To	Contemporary With
4112	E	5	ORTHOSTAT	STONE	Top of a possible Orthostat sealed by pier 3553, also sealed/ butted by 4012		TROWEL	4098			
4113	E	5	LAYER	ASH	Dark carbon rich layer sealed by hearth stone 4094 in Structure 5	layer sealed by hearth stone	TROWEL	4094			
4114	E	5	FLAGS	STONE	Paving at base of section in Structure 5; sealed by 4036, Equal to 4098, same as 4098	paving	TROWEL	4036	4098		
4115	E	5	LAYER	ASH	Creamy / beige / grey ash layer partially sealed by hearth 4094, butts wall 1042 in Structure 5. May have an older number.			4094			
4117	E	6	LAYER	SOIL	Patch of dark silty clay on the seaward eroding edge of Structure 6; sealed by 3798, butts 4120.		TROWEL	3798			
4118	E	6	LAYER	SOIL	patch of dark silty clay between orthostat of cost 3597 and wall 1135 and the eroding edge of the site. sealing deposit unknown as removed by the sea.		TROWEL				
4119	E	6	FLAGS	STONE	Flagging in â€˜Furnace roomâ€™, Str6, Sealed by 4111, butts 3976, 3977, 4021, 4078		TROWEL	4111			
4119	E	6									
4120	E	6	ORTHOSTAT	STONE	Large sloping orthostat on the edge of the erosion area in Structure 6, butted by 4111, 4119; butts 4121		TROWEL	4119			4121
4121	E	6	ORTHOSTAT	STONE	upright - sloping orthostat in Structure 6,butted by orthostat 4120, sill (threshold) stone 4078		TROWEL	4078			4120, 4075
4122	E	6	ORTHOSTAT	STONE	Top of a thin orthostat next to the furnace in Structure 6, butted by 4060, 4124, 4123.			4124			4123
4123	E	6	FLAGS	STONE	Large flag, possible working surface for smith, c.115x75cms, in Structure 6;sealed by 4060, butted by 4124, butts 3722		TROWEL	4124			
4124	E	6	LAYER	CLAY	Beige-orange clay around furnace in Structure 6; sealed by 4060, buts 4122, 4057, 4123; seals-butts flag 4128	unburnt clay around furnace	TROWEL	4060			
4125	E	6	ORTHOSTAT	STONE	Small orthostat to seawards (SE) side of hearth in the inner room of Structure 6, butts 4073, butted by 4126, sealed by 4010		TROWEL	4105			4137
4126	E	6	LAYER	SAND	Gritty patch of material surrounding the western Whalebone socket SF7550 adjacent to the hearth in the inner room of Structure 6. Butts 4125, 4073; sealed by 4010 contained by 4067		TROWEL	4010			
4127	E	6	ORTHOSTAT	STONE	Two small orthostats, once a single orthostat that had split, possibly originally part of pier then incorporated into the furnace structure, in Structure 6 furnace room on the edge of the eroded area. Butted by 4060, 4128		TROWEL	4128			
4128	E	6	LAYER	SOIL	Dark grey brown deposit on edge of erosion area in Structure 6, butts 4124, 4129.		TROWEL				
4129	E	6	ORTHOSTATS	STONE	Line of 2 stubs of orthostats (or a single cracked orthostat) on the edge of the erosion face in Structure 6, Butted by 4128, possibly 4060		TROWEL	4128			
4130	E	6	LAYER	SOIL	Grey brown deposit in inner room of Structure 6, sealed by collapse 4105,	more collapse deposit	TROWEL	4105			
4131	E	6	ORTHOSTAT	STONE	Small orthostat set in the inner room of Structure 6 on the landward side of the hearth, sealed by 4010, butts 3902, butted by 4067		TROWEL	4067			
4132	E	5	PIVOT STONE	STONE	Pivot stone hollowed in centre on the right hand side of the thread hold stone 4099, contained by and contemporary with flags 4098, butts 1037, 4099.	door pivot with the door opening into Structure 5.	TROWEL	4013			4098
4133	E	5	HEARTH	STONE	Crocked heated stone sealed by 4113	Earlier hearth stone under 4094	TROWEL	4113			

Context	Area	Str No	TYPE (1)	Type (2)	Description	Interpretation	Method	PMR: This context is BELOW	SAME AS	Equal To	Contemporary With
4134	E	5	ORTHOSTAT	STONE	line of orthostatic settings seen by vertically set packing stones in Structure 5;butted by 4098, sealed by 4012	packing for Orthostats (removed) predates 4012	TROWEL	4098			
4135	E	6	FILL	RUBBLE	small orthostats and rubble, yellow clay and fired orange clay; adjacent to the furnace in Structure 6, sealed by 4060, butts 4058, 4136	fill in the area of what is possibly the Tap Channel to the furnace	TROWEL	4060			
4136	E	6	FLAGS	STONE	Flagstone butting orthostat 4127, wall 4137; butted by 4135; sealed by furnace 4058 in furnace room in Structure 6.	Floor under furnace?	TROWEL	4058			
4137	E	6	WALL	STONE	Wall in furnace room, Structure 6; sealed by 4053, butted by 4136, butts 4127; sealed by 4058 wall composed of large blocky sub angular stones.		TROWEL	4053			
4138	E	6	FLAGS	STONE	Small flagstones in Structure 6, set next to hearth in the inner room.sealed by 4139, butts 4125 and the whalebone vertebra SF 7550. includes packing stones to whale bone socket		TROWEL	4139			
4139	E	6	LAYER		Black charcoal rich layer in Structure 6 next to hearth in the inner room; sealed by 4126, seals 4138, butts 4073		TROWEL	4126			
4140	E	6	LAYER	MIDDEN	Charcoal flecked dark brown layer; sealed by 4138, butts 4073, cut by 4141		TROWEL	4141			
4140	E	6									
4141	E	6	CUT	POST HOLE	Cut (unclear) for whalebone SF7550 in Structure 6 inner room by hearth. Contains 4142, cuts 4140			4142			
4142	E	6	FILL	POST HOLE	Fill of cut for the whale bone socket by the hearth in Structure 6 inner room, containing whale bone SF7550, contained by 4141, butts 4143sealed by 4140		TROWEL	4140			
4143	E	6	ORTHOSTAT	STONE	Sloping stones butted by 4142 in hole containing whalebone socket next to heart in inner room Structure 6. unclear if this forms the lining for the cut or the fortuitous position of an earlier feature. Butts 4073.			4142			
5000			LAYER	SOIL	light grey silty soil with occasional small stones	Topsoil derived from ploughing in the past	SPADE				
5001	F		FLAGS	STONEPL	Large horizontal stones at the base of the plough soil (5000) in Trench F, flags are laid horizontally suggesting a surface.	possible paved surface	SPADE	5000			
5002	F		LAYER	SOIL	Layer of soil containing smal sub-angular and sub-rounded stones at base of the plough soil 5000.	sorting layer forming interface below the plough soil	MATTOCK	5000			
5003	F		LAYER	SOIL	layer with large stones angular to sub angular 15-30cm			5002			
5004	F		LAYER	STONE	Large stones angular to sub angular 10-40cms in silty clay matrix		MATTOCK	5002			
5005	F		LAYER	RUBBLE	Patch of small angular stones 19-15cm in SECorner of area F, seals 5003		TROWEL	5000			
5006	F		LAYER	STONE	layer of small stones / cobbles sealed by 5003, buttts 5001	possible cobble surfavce	TROWEL	5003			
5007	F		ORTHOSTAT					5000			
5008	F		ORTHOSTAT	SET STONE	set stone adjacent to paving 5001, sealed by 5000			5000			
5009	F		LAYER	SOIL	Silty clay loam sealed by 5006 in the southern part of trench F, butts lower flags of 5001		TROWEL	5006			
5010	F		LAYER	SOIL	Dark brown sticky clay silty loam, sealed by 5004, containing large st	possible stone rubble spread resulting from wall robbing???	TROWEL	5004			
5011	F		LAYER	MIDDEN	Dark silty clay midden in southern part of Trench F, sealed by 5009, butts lower paving 5001		TROWEL	5009			

Context	Area	Str No	TYPE (1)	Type (2)	Description	Interpretation	Method	PMR: This context is BELOW	SAME AS	Equal To	Contemporary With
5012	F		LAYER	MIDDEN	Dark midden soil in Northern part of Trench F, sealed by 5010 and 5013		TROWEL	5013			
5013	F		LAYER	SOIL WITH HORIZONTAL STONES	layer of silty clay with large thin/platy stones same as 5009, but at a lower level with stones laid horizontally		TROWEL	5010	5010		
5014	F										
5016	F		STONE	FLAG	Stone surface sealed by flagstone 5001, stones angular to sub angular		TROWEL	5001			
5017	F		WALL	OUTER-FACE	wall face utilising large unworked stone, 1.80m long x 0.70m wide exposed at time of recording.						
5018	F		WALL	SINGLE-FACED	wall like feature measuring 2.37m long x 0.45m wide.		TROWEL	5016			
5019	F										
6000	D		WALL	INNER-FACE	Wallface (inner) in the new 2023 beach section of Area D, forming northern wall, butted by 6005 (rubble infill)	Northern facing to ditch	TROWEL	6005			
6001	D		WALL	INNER-FACE	Wallface (inner) in new section of Area D, forming southern wall, butted by 6005, butts 6002, 6004, seals 6003.	Southern facing to ditch.	TROWEL				
6002	D		LAYER	STONE	Small, sub angular stones forming infill/packing contained between Wallface 6001 and 6004	Packing between wall faces.	TROWEL				
6003	D		WALL	RUBBLE	Rubble possibly being formed from a tumbled wall in the 2023 Area D section; sealed by 6001.	slipped collapsed wall?	TROWEL	6001			
6004	D		WALL	INNER-FACE	wall face in Area D, butted by 6002, 6003, seals 6014	wall face	TROWEL				
6005	D		LAYER	RUBBLE	Rubble fill contained by walls 6000 and 6001; same as 1003 (2013), sealed by 6023.	Ditch infill		6023			
6006	D		LAYER	MIDDEN	layer of brown silty clay with charcoal flecks and much bond,	layer beneath rubble infill	TROWEL	6005			
6007	D		RUBBLE	STONE	Rubble sealed by wall 6001, and collapse 6003		TROWEL	6003			
6008	D		WALL		Short length of wall in Section cut by the sea in Area D; sealed by 6005.		TROWEL	6005			
6009	D		RUBBLE	STONE	Patch of rubble, butting wallface 6004, in section, seals 6010m	possible tumble from 6004 or 6002	TROWEL				
6010	D		LAYER	SOIL	Grey brown silty clay deposit on southern side of Area D section, sealed by 6009, seals 6011	,	TROWEL	6009			
6011	D		LAYER	RUBBLE	loose angular rubble in the southern sector of the Area D section, sealed by 6010, butts 6015, seals 6012.		TROWEL	6010			
6012	D		LAYER	SOIL	Grey brown loose sandy deposit with charcoal flecking, butted by 6015, sealed by 6011, seals 6013, in southern portion of Area D section			6011			
6013	D		LAYER	CLAY	Mixed mottled clay with fired clay, some shell fragments , in southern part of the Area D section , sealed by 6012, butts 6004, seals 6014.		TROWEL	6012			
6014	D		LAYER	STONE	Layer of sub angular rubble / cobbles the top of which might have provided a surface, sealed by 6013, in the southern section of Area D		TROWEL	6013			
6015	D		RUBBLE	STONE	Tumble of stones butts 6004, seals 6012, sealed by 6011		TROWEL	6012			
6016	D		LAYER	STONE	Layer of flag like stones in the northern section of Area D, Butts 6000, sealed by 6019, 6018	possible flag surface	TROWEL	6019			

Context	Area	Str No	TYPE (1)	Type (2)	Description	Interpretation	Method	PMR: This context is BELOW	SAME AS	Equal To	Contemporary With
6017	D		LAYER	STONE	Small stack of stones sealed by backfill seals wall face 6000						
6018	D		LAYER	RUBBLE	Thick layer of angular to sub angular rubble, sealed by 6016 in the northern section of Area D.	Rubble	TROWEL	6016			
6019	D		LAYER	RUBBLE	Large rubble and grey brown silty fill in the northern section of Area D, butted by 6019, butts 6000, seals 6016		TROWEL				
6020	D		FILL	RUBBLE	rounded stone approx 15cm with <5% 25cm sub angular stone. soil matrix is sandy silt 10YR 4/3	backfill of enclosure ditch	TROWEL	6006			
6022	D		LAYER	RUBBLE	Smaller rubble within a grey brown silty fill within the Area D section, Contained by / seals 6005	late ditch fill or possible fill of a recut?	TROWEL				
6023	D		FILL	RUBBLE	smaller rubble within a grey brown silty matrix seals 6005, 6024, butts wall 6001	late ditch infill	TROWEL				
6024	D		FILL	SOIL	Fill consisting of grey brown silt with some stone in the section of Area D., Sealed by 6023, 6005.	Ditch fill		6023			
6025	D		FILL	MIDDEN	Patch of shell midden (limpet) in ditch (AreaD section) Sealed by wall 6000 contained by fill 6005.	ditch infill	TROWEL	6000			
6026	D			STONE	â€œPlatformâ€• of rounded and sub rounded stones (cobbles) in the Area D Section; Sealed by 6018		TROWEL	6018			

Appendix 2: Context photographic record

These photographs are record shots only, taken on the iPad at the time of recording the context.

Context	Photograph Filename
3802	B313D110-BF2B-44F6-899E-F3F5DF622AF1.jpg; 5F054BCB-21DD-4306-948F-25D3A36571D3.jpg; 71847075-B7B8-435A-A83A-894525761C6A.jpg; DB987B7C-7F12-41EA-B517-0D4E11305A22.jpg; 5E9DBBA0-6D01-497A-B0C6-0ADEF94377C1.jpg
4051	46F65033-B679-425A-B24A-57D02AF7B94D.jpg; 4858E065-262A-4AA4-A211-12AD1C010C37.jpg
4052	
4053	BB650DAB-A3F9-464B-9E9B-192D2E1BA8F4.jpg
4054	599ABF12-CC95-4BD4-8794-46DA3FE093E5.jpg; BDA43E80-AD9C-47FB-BE27-96854AEEFB69.jpg; E7DFA583-C37B-436F-9F58-892B45C13A32.jpg
4055	
4056	
4057	5C06116F-94DC-4AD3-AA14-F58DFDB8A731.jpg; 4B8FE8EF-179B-482F-98F4-8DE11C964ABA.jpg
4058	905E80D4-D499-4AC9-AA87-FD4A542D233A.jpg; E88375DC-28FD-4550-B4BC-EF612DB4F35C.jpg
4059	467C9BDA-BDC9-4A08-89C9-367B788CB230.jpg; 598FFBF1-EB74-468F-91A1-3F37CEFDD84C.jpg
4060	968F9E3B-F5FA-4A09-943A-56A26FA673C9.jpg; 8232B629-2B6E-4BC7-AFB8-DD7B9B3EA3A2.jpg
4061	5B47409F-7767-4C63-B7CF-182B4805F870.jpg
4062	
4063	DDFDC4C0-E849-41C5-A89E-FC49EAB3C35F.jpg
4064	751E55BC-0A0F-4E4F-A96A-6DD70CE30CDE.jpg
4065	5363DF8E-D937-4468-B0F8-1BACE1DEC78F~L0~001.heic
4066	9B6FE966-65D1-4BBC-94D7-E21B58953555.jpg; 02061184-B65D-4C7D-B3FE-E02770FEC18B.jpg; 88270EF3-A473-43C2-B89D-2FD5A7C6CBB5.jpg
4067	0F9803DA-C92F-4F17-892B-B4DCF6B1051F~L0~001.jpeg; D4F9064B-5F2F-4CE3-B17D-B27037967041~L0~001.jpeg
4068	65A226AB-1BB7-41C0-8788-405E9333B031.jpg; 165D5BD1-83B1-45CD-8204-4ADC9419CE2F.jpg
4069	0A512752-436A-46C9-A484-CE22D7ECA3BA.jpg; 3531560C-572A-44B1-87ED-3026D1D7D379.jpg
4070	4F6BE957-48D5-46AF-B486-B52E9CE57177~L0~001.jpeg; B630DBB3-68E9-44E9-B67F-DD0B37E608C8~L0~001.jpeg
4071	91EE5BCD-AA37-400A-AC2C-06D612794B59~L0~001.jpeg; 1A3829A3-0466-49D2-826E-3C6E51AE0897~L0~001.jpeg
4072	1A3829A3-0466-49D2-826E-3C6E51AE0897~L0~001 1.jpeg; 91EE5BCD-AA37-400A-AC2C-06D612794B59~L0~001 1.jpeg; E8D9B275-2846-4659-90AB-CD5164C0E1B6.jpg; B3D14BCC-BDDF-4103-8BC2-CA243EF82FC6.jpg
4073	91EE5BCD-AA37-400A-AC2C-06D612794B59~L0~001 2.jpeg; 1A3829A3-0466-49D2-826E-3C6E51AE0897~L0~001 2.jpeg; FF699619-8FED-45FA-A034-204AB552E498.jpg; F5FDBF3D-AD1E-442F-8616-34153F10A7E3.jpg
4074	91EE5BCD-AA37-400A-AC2C-06D612794B59~L0~001 3.jpeg; 1A3829A3-0466-49D2-826E-3C6E51AE0897~L0~001 3.jpeg; 3FDFD346-9A2D-4DDC-BE48-FE7CD81479D0.jpg; 700AC13F-A34D-40C5-BF16-1B7E6A541FAD.jpg
4075	031438CB-A2CB-4990-91A5-870B7D5BEE20.jpg; 9FE51143-C658-4E05-91A4-EC4E5292AF26.jpg
4076	124360DA-7890-4CDF-8488-DE88BFC24A3E.jpg; CFF8FD5A-193E-495C-B10F-6FAC8276E48E.jpg
4077	E31627E0-0579-42C7-A629-D6C9ACABB538.jpg; F69A9D38-FAA8-4ACE-A39E-264BFBA5DEB7.jpg
4078	FBCA62A9-E5BA-4151-B98D-80F9CB08603A.jpg; 9141ADD1-54F7-43F7-931C-13EDF0B1B71D.jpg
4079	EECA8B93-9D33-4CAA-AD4D-2863941D9DD8.jpg; 42FCD380-1776-46A6-A767-E98F3CAE4F7C.jpg
4080	544913B8-10FC-4872-8276-6FD8C3E0F93D.jpg; 4161233D-E530-4C61-BB68-70ED88028055.jpg
4081	8708EF9E-8E30-4C54-90B5-0B56610BEB20.jpg; F78DD95C-596F-4F4B-B8F4-007DCA9283D2.jpg
4082	3723E665-C2D5-4F8B-9FF7-BDDE14258BDE.jpg; A68921AB-FD2C-488A-ACE0-45BE58521A68.jpg
4083	D5769021-975A-49F0-B5C6-AD6FA94D37F6.jpg; FDE62B93-06B9-4144-8431-AE5B4A7CB539.jpg
4084	
4085	
4086	8C4BEBDB-4340-4AC0-BE0B-32D4269094ED.jpg; 0BB52C78-3707-44BB-94B1-BDDDD8EBA9C5.jpg; D0F32BCB-8B09-4F49-B50E-007E10A6DAC7.jpg
4087	726355E5-8067-439A-BF50-42A2CC57E2E3.jpg; 4C92A787-3E8D-449E-A4B4-B91624AA2720.jpg
4088	6557744D-A810-4F77-81B6-4F837DEED597.jpg; C91B92DD-F1D1-4963-82C2-50A85D6A5F9D.jpg

Context	Photograph Filename
4089	21075760-FA88-44FB-BAAA-F681BCB31380.jpg; F42E0FEC-D572-4033-B36F-BC68D4E54BAF.jpg
4090	8F892BB6-03AF-4EBA-AE58-9ACB01646600.jpg; D6592AC9-240B-4CD4-AE79-CA174C194972.jpg; 1DE8298C-1EB6-4473-81C8-A1367F29C41C.jpg
4091	2DA93BCF-0B8F-438F-B5B2-FC6A66A858BD.jpg; 29595428-6461-4BFF-9B46-780C128A23DC.jpg
4092	A374A2B2-9495-4337-B3D0-E4DC8294B1DB.jpg; 8C5955CE-4711-4452-93C4-58A56BC03533.jpg
4093	100BA518-4D33-40B0-BF8F-A4FE56A055A9.jpg; 2FB89390-857B-4269-B35C-709C96EF5CFC.jpg
4094	8D917D77-6A92-418A-8CBF-4699160F9FCE.jpg; CC4711BA-79AB-4866-A89A-514479E10FC8.jpg
4095	8A1C5B93-9906-40FD-8ED3-71DCD4C7CC07.jpg; 2B7C1B7B-AB13-4798-ACDA-3D1422BF79E3.jpg
4096	76360334-F114-4470-B3D8-D6EF1A52F6EC.jpg; 7C11BAED-F51F-420D-B216-AF1A1F8136D7.jpg
4097	992477F0-8E32-4C74-9EAB-0BE739F308E2.jpg; 248AEB3F-3EE2-4B28-9D8B-70671886B499.jpg; 1465868D-A34A-466E-8741-0407DCE54CD5.jpg
4097	211B33EF-5BDE-4F8B-B909-9ECAC4CAE5C9.jpg
4098	EFF48449-7B65-409B-9A32-F263584641FF.jpg; 80118144-4D9F-4D11-A23C-6C345BAAE9BE.jpg
4099	095A4000-A5D3-4A5E-897E-4EDE7A76EFF1.jpg; DA47AD20-BBEE-4CF3-A867-BCD1BFB48F2B.jpg
4100	28CBCBC3-DFB8-4E11-8456-7BBAD33A9A2E.jpg; BA576E68-5955-49AD-B70C-037382BD62CD.jpg
4101	216EA4D2-DD35-4B10-8CF5-2AC3D7CBE1B2.jpg; 488C0785-6362-4B43-ACD9-B4EEF3D423AD.jpg
4102	8727CBF4-F404-4CF7-A208-86240777B58D.jpg; 83999037-AB66-41A7-B4E6-748BE8F0F104.jpg
4103	6639BD0E-5416-4B32-A2E3-30DD448481D7.jpg; 075441D0-0D42-43B0-9DE9-1C7D3DDB97F0.jpg; 57713AB5-2ADF-48C9-82F6-CC1503E421FC.jpg
4104	D1F35F7E-E56E-4CEE-A4AB-95693897549F.jpg; 7EB4D971-5B93-4334-8688-04544FDEEA4C.jpg
4105	4F196A0D-5CB9-4DA1-A3FF-A42F76BB476C.jpg; 48A7D028-3F3F-4AD3-824D-1EA6B745A759.jpg
4106	1D0FB4E8-AB09-4359-AFD2-E5792B63CAEE.jpg; 9F102640-E52D-46FE-8991-EE9EBAD2EEBD.jpg
4107	A2110535-31E6-441E-941C-952E0FA1517C.jpg; 770A4202-38CA-4BDD-976F-1A3BDD2BC7C0.jpg
4108	BF589E5E-0CE4-44CB-8522-4C256C03766F.jpg; 96B3DB01-4BE9-4A9A-9157-840599920513.jpg
4109	2CD04EF0-5F2F-4745-AC12-93F19EDF76A1.jpg; 310E3C93-0A13-4BB1-BFE2-188C4BD01CCA.jpg; 60578C48-41F6-4C7B-9FA8-D61032C03EFC.jpg; 6B54FA43-DC53-4FC5-93C2-5CCD59A0CB40.jpg
4110	89E9784E-4D6C-4911-98F2-5ED0FBFBDD24.jpg; 7B6B1E27-0D22-41C5-AA5B-814E756F7B06.jpg
4111	
4111	E8C2069C-0704-4DD1-A07D-DD5956E3686E.jpg; D979F389-3B44-45BD-9081-DAE38E76D595.jpg; C6F7A4AA-1E69-497D-902E-A33F84D78C86.jpg
4112	43FB9FFA-56CB-48F4-A448-48A426792C2C.jpg; A55B6C2F-7EAE-48F3-8C6D-BC685AFFCF82.jpg
4113	58523AA6-B82D-4F06-B936-BC2C4D0C8DB3.jpg; 11EE6E5A-2EDA-44A6-BE34-35BC34FF5C02.jpg; 6761D393-219B-4E17-BAC1-0EC4C8E746C0.jpg
4114	346C6ADE-D7B9-4FE7-9C19-DAB9A5190177.jpg
4115	3E08A1A8-89C7-49EE-B395-FEB2991CC673.jpg; 2BD6282F-1406-4D35-97D5-C3CC312C4838.jpg
4117	1E422C39-A197-42A7-9DBD-CB2474D4896C.jpg; 3B7CD719-AEBE-46DF-A35D-B5A9E8CA1272.jpg
4118	8B926DDC-9DF0-44A1-B33A-68DF2DDF07EA.jpg; F3031A63-6630-439D-9DD4-A210C1528EF2.jpg
4119	2891934A-32D6-412B-B1BE-97405BF7331C.jpg
4119	94703880-926B-483F-8615-4C6A620F9AAB.jpg; 677ABC00-2E11-4DE3-81EB-FE71F1DA275C.jpg
4120	D63D3814-1BBC-408A-B4D2-AA920C39FC52.jpg; 6D20B78F-F353-4799-B72C-425E4E91B0F7.jpg
4121	1B9BE976-86E6-4F7D-84E4-0C17C65C25C0.jpg; A6B59783-8234-4F39-B1AF-347CF90908AB.jpg; 427D4958-D96D-4581-9919-9662864046C7.jpg
4122	0EE343C0-F1E7-4B56-BA12-D6DF86051A37.jpg; 9B7EF2A4-7805-46AF-9F78-8A7BBB9D8F38.jpg
4123	AB1E5DC7-897D-4D10-83E2-25CBE410841B.jpg; 444855FA-17A2-4765-9D68-51E703D244EE.jpg
4124	D2361018-9F3A-4BD2-82A9-32F07418F3D5.jpg; B1DBE8D3-4360-44B2-8ED9-0C24C288DDE6.jpg
4125	70E68A5F-00BB-4A42-8AA5-CC56AEBF2F47.jpg; D6B3A271-5222-4DBE-9424-6600FCD72916.jpg
4126	1C14571A-BCE9-4364-8FFA-FBA08EB2BF7D.jpg; 2784570D-0C57-4635-84B0-FD5E9A5F2E22.jpg; 3ADF66F8-534A-427B-9B56-992FD22FD80A.jpg
4127	FDF51F95-0AA6-41A6-AD8D-D141D79DBB6D.jpg; A0BEFBC0-C8A3-4D43-8946-63D9CE4EB745.jpg
4128	F93BCCFB-317D-40D3-B971-54E0AB0601F5.jpg; 0301AFF7-63F0-42A3-A4FD-C5CF34DC9F96.jpg
4129	D138B75A-5384-4203-AC65-9E28AF82621C.jpg; B2021AC2-7690-4D79-9CFA-437C7C7219C3.jpg; E88528F5-F1AC-474E-B8CD-AF8B8C1E402E.jpg

Context	Photograph Filename
4130	7DDBB478-9FDE-4F3D-A7B6-5CA5B84A9366.jpg; F425BA98-7909-4A55-AA9B-C650222465B8.jpg; 09C597A3-BCAE-43C4-8C69-8DC9A19C303A.jpg
4131	3AB62CEF-AAD4-4654-9CCE-0113C9303F6A.jpg; 18FED289-246B-4052-8929-3CBF91209A16.jpg
4132	5DFB0770-EEE1-46B2-BAA3-BB6A696AE9F9.jpg; EEAED8D1-8E20-424F-841E-77457778C0AB.jpg; 62C76701-31B1-4CAD-8E30-2A423DD15949.jpg
4133	3580F54A-007B-414C-BD0E-F9F2E8E760EB.jpg; FDC66E31-A753-4D6E-9F44-4B18FB9CD545.jpg; 4D7290EE-0AAD-4DBA-818F-87D662856E5D.jpg
4134	F25709CE-5B75-449C-8B2C-88914D58E588.jpg; B380339A-F0CD-45DE-BB26-AA986D16105B.jpg; 8346A9FF-2FC3-4FD1-8B34-DB3FA581AADD.jpg
4135	8EC62E85-93B4-4D1D-8DE5-A99BFDDAEB35.jpg; A26D98D0-ADED-4078-8EB9-D204029F6DF3.jpg
4136	93953164-BEF7-488B-8AFC-17770C786EC2.jpg; 9988B607-59CA-4F6F-BFCF-8D0B2F64DCFB.jpg
4137	B7386479-F882-41F4-85F5-49B5FCB7ABFC.jpg; 5882398B-EE26-41EB-9F9C-6E7C8B03205D.jpg
4138	9921213A-2F4F-45E9-8E4B-1E22A123F41B.jpg; AD80B9DF-24EC-4172-A9F7-23BC97693BF5.jpg
4139	1611B1B2-39C7-4D30-8FE3-39AE79E678B7.jpg; C75827F7-3D57-4125-8D0F-5C61342A0EF2.jpg
4140	FE970C43-0A7C-4BE0-AC43-FE443572B455.jpg; E90244DC-09D5-4834-B727-7B1904349BC4.jpg; F471AD4E-97BC-4D00-91E7-DABB8938F043.jpg; 91E8D3C9-242E-4F78-BD9D-84CC1DF7DC4C.jpg
4140	7C0312A9-FC19-4520-B7EB-F5FEFF2BFAA5.jpg; 1C02004C-FD1C-4486-868F-099CBFB89059.jpg
4141	71F5B48C-8FD6-4B4A-9E64-1E9C377BE843~L0~001.heic; 53DCB396-78B3-4461-A5C6-45B77DC14C70~L0~001.heic; C82B2464-7653-449C-99DD-CD14B9ECD02C~L0~001.jpeg
4142	C82B2464-7653-449C-99DD-CD14B9ECD02C~L0~001 1.jpeg; 53DCB396-78B3-4461-A5C6-45B77DC14C70~L0~001 1.heic
4143	395B7C03-72CB-4B1A-ABD1-7ADB0736251E.jpg; 1AE99104-0DAE-4A23-991F-930015FAE138.jpg
5000	23F59346-B2B7-44A5-9F72-17A715E73E90.jpg; 14DC2C6A-A458-4383-B9AA-6E64EFBA60AE.jpg
5001	20914279-C1D4-475E-904C-D04333417535.jpg; 8352ACA0-F036-49F6-945C-9F2A07952E6E.jpg; D1BE6709-557A-4E8E-A3B9-8788297DF02D.jpg; 16C91065-3515-4708-BB62-7C653B7F8DAA.jpg
5002	B9860DF5-562F-49E1-A0DC-8DDF1F105C07.jpg
5003	39123392-290D-4806-AE58-CEC47F5189C7.jpg; BBA07F5A-4076-4F8F-BA36-19D80DAA7AF6.jpg; 5BCE2C79-75A9-460C-A543-F648EBC4301E.jpg
5004	9AF500A6-4D68-4AAF-8E0E-C3ADBC265C61.jpg
5005	33A92439-78DF-4DF5-AD7B-A83DEB0870E5.jpg; 863B7884-8E94-4357-920D-8783EDA6F266.jpg; 6B2417AE-A541-4D43-9063-44FB87C97EE2.jpg
5006	7CE02FA9-E345-4294-AD65-82D2BD43284D.jpg; 7C1FD8B6-343A-4893-A21B-5FADFCDAC75C.jpg
5007	089AC557-C1C3-4B94-A835-2CA4A5B61E3C.jpg; 4EDB2354-47A7-4400-8F68-C469FA5CDF0B.jpg
5008	D17DF1AE-D94C-406E-B75F-7E704FBBE48F.jpg; DB77E2FA-376C-4709-8CD9-01793DBB8E01.jpg
5009	85A7A072-CB02-4D7A-981A-E0060D3B1652.jpg; C68A69B6-CF29-4513-A3B4-3A55063FA278.jpg
5010	7E645945-43F4-4E45-B2BF-F955E075A00C.jpg; DD449972-E0BA-40F6-A6F0-B097836063BD.jpg
5011	
5012	
5013	
5014	6980EB75-2946-4F0B-AE5F-23DE8391EBF2.jpg; 2A690E17-E011-4663-8FA4-02D54E163CBD.jpg
5016	1AADED45-4632-4E56-8721-7B940C045A3D.jpg
5017	75407BFB-EB4B-43E7-AEE0-6FF08F94704F.jpg; 619C165F-E045-4CFE-806A-8A6D66F91C4A.jpg
5018	F5277653-5C91-479D-94B2-B2AF2441260E.jpg; E29AF056-E728-4191-8DCA-1DD9AC757391.jpg
5019	AE3FC4D5-EADC-4D3F-B255-19C8E7A3DF15.jpg; C71A7D00-E5A2-40AD-ACE7-D6B77BD18E6C.jpg
6000	CB8DB028-9547-44DB-9DDC-C898BBF97350.jpg; 27B9E138-634A-4F26-9FD0-C90D34CAFFD4.jpg; E04E7D71-6AD2-4EDB-BD76-68CFACECE033.jpg
6001	F2DE0094-EDAD-428D-93D6-237F37AEBAE3.jpg; 9137FC15-4B0C-4CD6-A0AB-E3AE256EC4AA.jpg; 297CAAFF-0389-4240-A49C-5CB4DD6263C4.jpg
6002	
6003	09797E72-7C59-4C44-8A22-789C4F75E29B.jpg; FC7B693E-78BA-455F-888C-EA6BF944D92A~L0~001.heic
6004	8189AE02-457C-4247-8ACB-43938B352BB4.jpg
6005	CC65CDDC-C09D-499F-AFF6-04B70C744B78.jpg; FC7B693E-78BA-455F-888C-EA6BF944D92A~L0~001 1.heic
6006	534314A6-27D4-423E-BDA4-89719580B4B2.jpg; 8AF650FE-2A7D-456F-BF18-418E3BCCC9D0.jpg; FE1A8A66-6015-4A90-8A1F-8FF709CDD893.jpg
6007	C0AF45B2-2492-487D-8FAD-98C4CE6D8B1F.jpg; D56681E9-AB2D-4CC1-845D-02658745A636~L0~001.heic
6008	022312D0-AE99-4A87-9E95-9EA3327875BB.jpg; 853B8845-8520-40B9-996A-CC7C3E14455D~L0~001.jpeg; FC7B693E-78BA-455F-888C-EA6BF944D92A~L0~001 2.heic

Context	Photograph Filename
6009	AB8747B9-D8C9-418A-BFF5-6B51D3935818.jpg; F0D87BA1-EE2E-48BE-A0E9-D31A9468DB7E.jpg; B854B15B-F011-4F85-B4E0-186D8E32EBDE.jpg
6010	B6DF47D1-B66B-4B83-B13B-7DC53261CAA9.jpg; 1666AAA6-1AE4-438C-A455-D62647767337.jpg
6011	78A5A27D-14BF-40C7-BF2F-B79505605392.jpg; 789B2068-ADF2-4BAB-937C-6B69F8AC7FA2.jpg
6012	D62C1267-E04D-4831-91D0-BB38C777BE1E.jpg; 0E7E4C66-41C8-4F77-9E46-10F154735D73.jpg
6013	9D6CD5DA-16FA-4A4B-863C-293655F05147.jpg; DD2CA8A9-7149-4708-807E-2EAC0BCD2D19.jpg
6014	E1585D0C-1C8D-4751-8FE4-3D7DD6D92253.jpg; C3D2A33A-355F-4833-853E-F55C43822629.jpg
6015	
6016	BEFD8832-916C-450B-A06E-EE8F173412B5.jpg; D3BD0DD2-3228-4D94-BBB5-3FF5F2E2BDD5.jpg
6017	
6018	
6019	
6020	2F3A5498-A228-4EA9-8CED-A6A82227948E.jpg; A5CF294F-FB9E-4CC2-87B8-3F669744B74A.jpg
6022	AB1EB92B-5972-417E-97F4-A97210CC87C5.jpg
6023	
6024	4DFB63C0-24DF-4A30-B609-0D1A850D5B11.jpg
6025	
6026	

Appendix 3: Soils register (1)

CONTEXT	TEXTURE	COMPACTION	MUNSELL REF	WATER CONTENT	SORTING	IRON PANNING	OTHER
4051	SILT CLAY	WEAK	7.5YR 3/2	MOIST	POORLY SORTED		
4052	SILT CLAY	WEAK	7.5YR 3/2	MOIST	POORLY SORTED		
4054	SILT CLAY	WEAK	7.5YR 4/3	MOIST	POORLY SORTED		
4056	SILT CLAY	LOOSE	RED 2.5YR 4/6; BROWN 7.5 YR 3/2; ABSOLUTE BLACK	MOIST			
4058	CLAY	FIRM	ORANGE (HEATED) 10YR 4/8 YELLOW (UN HEATED) 10YR 5/4				
4059				MOIST			
4060	SILT CLAY	WEAK	7.5YR 5/4	MOIST	SORTED		
4061	SILT CLAY	LOOSE	10YR 3/2	WET	POORLY SORTED		
4064	SILT CLAY	LOOSE	10YR 3/2	WET			CLUSTER OF LAND SNAIL SHELLS IN ONE CORNER PLUS TINY FRAGS ANIMAL BONE
4065	SILT CLAY	WEAK	10YR 7/6	DRY	POORLY SORTED		
4067	SILT CLAY	FIRM	2.5Y 3/2	MOIST			
4068	SILT CLAY	FIRM	10YR 5/6	MOIST	SORTED		
4075							
4077	SILT CLAY	FIRM	10YR 4/3	MOIST	SORTED		
4080	CLAY	WEAK	1065 3/4	DRY	WELL SORTED		
4081	SILT CLAY	WEAK	10YR 2/1	MOIST			
4082	SILT CLAY	FIRM	10YR 4/6	MOIST	WELL SORTED		
4086	SANDY SILT LOAM	WEAK	10YR 3/2	DRY	POORLY SORTED		
4087	SILT CLAY	FIRM	10YR 3/2	MOIST	WELL SORTED		
4088	Burnt SILT Other CLAY SILT	FIRM	BURNT 5YR 5/8 OTHER 10YR 4/2	MOIST			
4089	SILT CLAY	WEAK	7.5YR 4/2	MOIST	SORTED		
4091	SILT CLAY	WEAK	10YR 3/2	MOIST	POORLY SORTED		

CONTEXT	TEXTURE	COMPACTION	MUNSELL REF	WATER CONTENT	SORTING	IRON PANNING	OTHER
4093	SILT CLAY	LOOSE	10YR 3/2	MOIST	POORLY SORTED		
4094	CLAY-SILT	FIRM	7.5YR 4/4	MOIST			
4101	SILT CLAY	FIRM	10YR 2/1	MOIST			0.5 % GREY ASH 2-5mm 0.5% YELLOW CLAY 1-3mm
4102	SILT CLAY	WEAK	10YR 3/2	MOIST	POORLY SORTED		
4103	SILT CLAY	FIRM	10YR 3/2	MOIST			
4104	SILT CLAY	WEAK	10YR 4/2	MOIST	POORLY SORTED		
4105	SILT CLAY	LOOSE	10YR 4/2	MOIST	POORLY SORTED		
4106	SILT	FIRM	7.5YR 4/2 (DARK) 10YR 6/4 (LIGHT)	DRY	POORLY SORTED		
4107	SILT CLAY	WEAK	10YR 3/2	MOIST	POORLY SORTED		
4108	SILT CLAY	FIRM	7.5YR 3/2	MOIST	SORTED		
4111	SILT CLAY	WEAK		MOIST	SORTED		
4113	SILT CLAY	FIRM	10YR 2/1	MOIST	WELL SORTED		
4115	SILT	FIRM	10YR 5/3	MOIST			
4117	SILT CLAY	FIRM	10YR 3/2	MOIST	SORTED		
4118	SILT CLAY	WEAK	10YR 2/1	DRY			
4119							
4124	SILT CLAY	WEAK	7.564 4/3	MOIST	POORLY SORTED		
4126	SAND	LOOSE	10YR 2/2	MOIST	SORTED		SEEMS TO BE DERIVED FROM THE BEACH
4128	SILT CLAY	LOOSE	10YR 3/2	MOIST	SORTED		
4130	SILT CLAY	WEAK	10YR 3/1	MOIST	SORTED		
4135	SILT CLAY	WEAK	10YR 3/2	MOIST	POORLY SORTED		
4139	SILT CLAY	WEAK	5YR 2.5/1	MOIST	SORTED		
4140	SILT CLAY	WEAK	7.5YR 2.5/1	MOIST	SORTED		
4142	SILT CLAY	WEAK	10YR 2/2	MOIST	SORTED		
5000	SILT CLAY LOAM	FIRM	10YR 4/3	MOIST	WELL SORTED	FLECKS OF IRON STAINING	
5002	SILT CLAY LOAM	FIRM	10YR 4/2	MOIST	POORLY SORTED		

CONTEXT	TEXTURE	COMPACTION	MUNSELL REF	WATER CONTENT	SORTING	IRON PANNING	OTHER
5003	SILT CLAY	WEAK	10YR 4/3	MOIST	POORLY SORTED	BROKEN - FLECKS	
5004	SILT CLAY	WEAK	10YR4/2	MOIST	POORLY SORTED	FLECKED WITH iRON PANNING	
5004	SILT CLAY	WEAK	10YR 4/2	MOIST	POORLY SORTED	FLECKS	
5005	SILT CLAY	WEAK	19YR 4/2	MOIST	POORLY SORTED		
5006	SILT CLAY	WEAK	10Y/R 4/3	MOIST	SORTED	BROKEN	
5009	SILT CLAY LOAM	FIRM	10YR4/2	MOIST	WELL SORTED		
5010	SILT CLAY	FIRM	7.5YR4/3	MOIST	SORTED		
5012	SILT CLAY	FIRM	7.5Y/R 3/2	MOIST			
5012	SILT CLAY	FIRM	7.5 YR3/2	MOIST			
5013	SILT CLAY	FIRM	10YR 5/3	MOIST			
5016	SILT	WEAK	10YR 4/3	MOIST			
40811	SILT CLAY	WEAK	10YR 2/1	MOIST	SORTED		
51011	SILT CLAY	FIRM	7.5Y/R 4/3	MOIST	SORTED		

Appendix 4: Soils register (2)

	UNBURNT STONE			BURNT STONE			MOTTLES				CARBON		SHELL MIDDEN	
CONTEXT	%	SIZE	SHAPE	%	SIZE	SHAPE	%	SIZE	COLOUR	BOUNDARIES	%	SIZE	%	TYPE
4051	20	1-5cm	ANGULAR								1%	1-2 mm		
4052	10	1-5cm	ANGULAR	5%	1-2CM	ANGULAR					10%	1-15mm		
4054														
4056	<1	1-5cm	ANGULAR											
4058	50	10-20cm												
4059				100	30x30cm	ANGULAR								
4060	1	5-10cm	ANGULAR								5	1-10cm		
4061	20	1-5cm	ANGULAR										3	Limpet fragments
4064	50	3-8cm	ANGULAR								01-Feb	2cm		
4065	10	1-20cm	ANGULAR/ SUBANGULAR - PLATY											
4067	20	1-40cm	ANGULAR/ SUBANGULAR											
4068	5	3-20cm	ANGULAR	0			10	5-20cm	YELLOW	MERGING	5	0.5-1cm		
4075	90	10-40cm	ANGULAR											
4077	50	0.5-6cm	SUBROUNDED/ ROUNDED											
4080														
4081											1%	2-5mm		
4082														
4086	>50	0.5-40cm	ANGULAR - ROUNDED											
4087	30	10cm	ANGULAR								25%	3 to 15mm		
4088				4 LARGE FLAT							15%	5-10mm		

	UNBURNT STONE			BURNT STONE			MOTTLES				CARBON		SHELL MIDDEN	
CONTEXT	%	SIZE	SHAPE	%	SIZE	SHAPE	%	SIZE	COLOUR	BOUNDARIES	%	SIZE	%	TYPE
				STONES										
4089	5	0.5-10cm	ANGULAR/ PLATY								5%	2-5mm		
4091	15	5-10cm	ANGULAR / PLATY					YELLOW 2%. SIZE 1-4cm; ORANGE 1% SIZE 1cm	YELLOW 10YR 8/4 ORANGE 10YR 5/6	IRREGULAR				
4093	>50	0.5-5cm	ANGULAR / PLATY											
4094				5%		ANGULAR					3	1-2mm		
4101	1	5-10cm	ANGULAR - ROUNDED								5%	2mm		
4102	5	1-20cm	ANGULAR / PLATY											
4103	20	5-20cm	ANGULAR/SUBANGULAR								<1%	1-2mm		
4104	50	0.3-10cm	ANGULAR / PLATY											
4105	50	10 - 50cm	ANGULAR / PLATY											
4106														
4107	5	1-20cm	ANGULAR / PLATY											
4108				1%	3cms	ANGULAR	1	2-20mm	2.5YR 4/6					
4111	5	1-10cm	ANGULAR	0							5	2-10mm		
4113											5%	5-10mm		
4115								3-5mm			20%	1-40mm		
4117	1	1-4cm	ANGULAR / ROUNDED											
4118	1	0.5-1cm	ANGULAR / ROUNDED											
4119														
4124	<1	10cm	ROUNDED								1%	2-5mm		

	UNBURNT STONE			BURNT STONE			MOTTLES				CARBON		SHELL MIDDEN	
CONTEXT	%	SIZE	SHAPE	%	SIZE	SHAPE	%	SIZE	COLOUR	BOUNDARIES	%	SIZE	%	TYPE
4126	>50	2-20mm	SUB-ANGULAR / SUB-ROUNDED										15	Tiny shell fragments limpet and 1flat winkle
4128	5	3-10cm	ANGULAR				1	2-10mm	5YR 5/8		5%	2-5mm		
4130	10	1-5cm	SUB-ANGULAR				1	2-10mm						
4135	50	5-10cm	ANGULAR					20-50mm	10YR 6/6 (YELLOW) 5YR 5/6 (ORANGE)		2%	1-10mm		
4139											>10%	5-50mm		
4140											5%	3-10mm		
4142	20	1-2cm	ANGULAR / PLATY											
5000	10	1-5cm	SUB-ROUNDED								Flecks of coal <1%	0.5mm		
5002	15	2-5cm	SUB-ANGULAR / SUB-ROUNDED											
5003	50	15-30cm	ANGULAR/SUBANGULAR											
5004	40	5-40cm	ROUNDED TO SUB ANGULAR											
5004	40	5-40cm	SUB-ANGULAR / SUB-ROUNDED											
5005	50	10-15cm	ANGULAR											
5006	20		ROUNDED TO ANGULAR											
5009	15	10-15cm	SUB-ANGULAR											
5010	40	22cm	SUB-ANGULAR											
5012							5	2-5cm	7.5YR 5/2		> 1%			
5012	17	6-25cm	SUB-ANGULAR / SUB-ROUNDED				5	2-5cm	7.5YR 5/2	CLEAR				

	UNBURNT STONE			BURNT STONE			MOTTLES				CARBON		SHELL MIDDEN	
CONTEXT	%	SIZE	SHAPE	%	SIZE	SHAPE	%	SIZE	COLOUR	BOUNDARIES	%	SIZE	%	TYPE
5013	25	12-15cm	ANGULAR/SUBANGULAR				5	1-5cm	7YR 6/8	CLEAR				
5016	70	20-40cm	ANGULAR/SUBANGULAR											
40811											1	2-5 mm		
51011	15	5-15cm	ANGULAR/SUBANGULAR								>5%	Flecks only	1	Small Fragments only

Appendix 5: Artefact register

NFS – No find spot

SF	Context	Unstrat	NFS	Material	Description
7073	5000	No	Yes	CU ALLOY	1944 penny
7074	5000	No	Yes	POTTERY	PM - 1 frag, glazed
7075	5000	No	Yes	POTTERY	PM - 1 frag, glazed
7076	5000	No	No	BONE, OTHER	Possible worked bone, or fishing float?
7077	5002	No	No	STEATITE	Steatite vessel frag
7078	5003	No	No	STONE	Worked stone disc frag, pot lid frag
7079	5004	No	Yes	STONE	Stone bar
7080	5000	No	Yes	STONE	Worked stone, whetstone
7081	5004	No	Yes	STONE	Worked stone, whetstone/hammerstone
7082	5002	No	Yes	STONE	Worked stone disc frag, pot lid frag
7083	5000	No	No	STONE	Possible worked stone
7084	3984	No	No	POTTERY	PH - 1 base, 2 frags
7085	4017	No	No	SLAG	4 amorphous lumps, small
7086	3807	No	No	STONE	Worked disc, pot lid
7087	3963	No	No	POTTERY	PH - 1 body
7088	3961	No	No	STONE	Quartz with red veining
7089	4063	No	No	POTTERY	PH - 1 frag
7090	5006	No	No	STONE	Possible worked stone
7091	5009	No	No	STONE	Hone stone frag
7092	4055	No	No	IRON (FE)	Iron object?
7093	4051	No	No	POTTERY	PH - 1 frag
7094	3629	No	No	POTTERY	PH - 1 rim, 1 frag
7095	3842	No	No	POTTERY	PH - 1 body
7096	4055	No	No	IRON (FE)	Iron object?
7097	4006	No	No	FIRED CLAY	Furnace lining
7098	4006	No	No	STONE	Worked stone from furnace
7099	3787	No	No	POTTERY	PH - 1 body sherd
7100	4013	No	No	POTTERY	PH - 1 frag
7101	4013	No	No	POTTERY	PH - 1 frag
7102	4034	No	No	POTTERY	PH - 1 body
7103	4056	No	No	FIRED CLAY, SLAG	Furnace materials
7104	4017	No	No		Slag, 1 large am. lump
7105	4017	No	No	SLAG	1 large am. Lump
7106	4010	No	No	BONE	Cut antler and 1 pig bone
7107	4017	No	No	FIRED CLAY	3 small am. lumps fired clay
7108	4017	No	No	SLAG	1 small am. Lump
7109	4017	No	No	FIRED CLAY	Fired clay - 8 small, 1 large am. lump
7110	4017	No	No	POTTERY	PH - 1 body sherd
7111	4017	No	No	SLAG	Fuel ash slag? 1 Small am. Lump

SF	Context	Unstrat	NFS	Material	Description
7112	4017	No	No	SLAG	Slag, 2 medium am. lumps
7113	4017	No	No	STONE, POTTERY, FIRED CLAY	Stone, possibly worked, possibly related to hearth or furnace
7114	4017	No	No	SLAG	1 medium am. lump
7115	4010	No	No	BONE	Worked antler, handle?
7116	4017	No	No	SLAG	3 small lumps
7117	4017	No	No	FIRED CLAY	1 medium, 3 small lumps
7118	4010	No	No	BONE	Antler, cut?
7119	4060	No	No	POTTERY	PH - 1 body
7120	4060	No	No	SLAG	1 large/medium lump
7121	4010	No	No	BONE	Antler tine
7122	4060	No	No	SLAG	1 medium lump
7123	4060	No	No	SLAG	1 large, 1 medium am. lumps, with iron pan or residue?
7124	4060	No	No	POTTERY	PH - 1 body sherd?
7125	4010	No	No	STONE	Worked stone with hole
7126	4010	No	No	STONE	Hone stone
7127	4017	No	No	FIRED CLAY	1 am. lump fired clay
7128	4010	No	No	STONE	Worked stone disc/pot lid
7129	4010	No	No	BONE	Antler handle
7130	4010	No	No	BONE	Cartilage? Antler? Bone?
7131	5004	No	No	STONE	Worked stone disc
7132	4010	No	No	BONE	Worked bone, weaving comb frag
7133	4010	No	No	POTTERY	PH - 1 body sherd
7134	4031	No	No	POTTERY	PH - 1 rim
7135	3951	No	No	POTTERY	PH - 1 body sherd
7136	4013	No	No	POTTERY	PH - 1 body
7137	4010	No	Yes	SLAG	1 small lump
7138	3784	No	No	POTTERY	PH - 1 body sherd
7139	3961	No	No	STONE	Worked stone disc/pot lid
7140	6005	No	No	POTTERY	PH - 4 frags
7141	6005	No	No	POTTERY	PH - 1 body sherd and 1 frag
7142	6005	No	No	POTTERY	PH - 1 body sherd
7143	6005	No	No	POTTERY	PH - 1 frag
7144	6005	No	No	POTTERY	PH - 1 frag
7145	6019	No	No	BONE	Worked bone
7146	6000	No	No	POTTERY	PH - 2 body sherds and 4 frags
7147	6005	No	No	POTTERY	PH - 1 frag
7148	6005	No	No	POTTERY	PH - 1 body sherd
7149	6005	No	No		PH - 1 body sherd and 2 frags
7150	5006	No	No	STONE	Possible skaill knife
7151	4052	No	No	FIRED CLAY	Furnace lining, 3 frags
7152	6005	No	No	POTTERY	PH - 1 body sherd
7153	6005	No	No	POTTERY	PH - 4 frags
7154	6005	No	No	POTTERY	PH - 1 body sherd

SF	Context	Unstrat	NFS	Material	Description
7155	6005	No	No	POTTERY	PH - 1 body sherd
7156	6005	No	No	POTTERY	PH - 1 body sherd
7157	6003	No	No	POTTERY	PH - 1 frag
7158	6005	No	No	POTTERY	PH - 2 body sherds
7159	4060	No	No	STONE	Large worked disc, pot lid
7160	6005	No	No	POTTERY	PH - 1 body sherd
7161	5009	No	No	BONE	Possible worked bone
7162	5009	No	No	BONE	Worked antler?
7163	5009	No	No	BONE	Antler tine?
7164	4010	No	No	STONE	Whetstone/honestone
7165	3911	No	No	POTTERY	PH - 1 body sherd
7166	4013	No	No	POTTERY	PH - 1 body sherd
7167	4013	No	No	POTTERY	PH - 1 frag
7168	6014	No	No	POTTERY	PH - 1 frag
7169	6005	No	No	POTTERY	PH - 1 body sherd
7170	6005	No	No	POTTERY	PH - 1 rim
7171	6005	No	No	POTTERY	PH - 4 frags
7172	6005	No	No	POTTERY	PH - 2 frags
7173	6005	No	No	POTTERY	PH - 1 body sherd
7174	4013	No	No	STONE	Worked stone disc frag/pot lid.
7175	4012	No	No	POTTERY	PH - 1 frag
7176	4013	No	No	POTTERY	PH - 1 body sherd
7177	4013	No	No	POTTERY	PH - 1 body sherd
7178	4013	No	No		PH - 1 body sherd
7179	4084	No	No	POTTERY	PH - 1 body sherd
7180	5010	No	No	STONE	Possible stone rubber
7181		Yes	No	STONE	Worked stone, faceted - from spoil heap
7182	4061	No	No	POTTERY	PH - 1 rim
7183	4061	No	No	OTHER	1 lump dense charcoal
7184	4062	No	No	BONE	Worked bone
7185	4061	No	No	POTTERY	PH - 1 base
7186	4010	No	Yes	STONE	Whetstone from sieve
7187	4010	No	No	STONE	Worked stone disc/pot lid
7188	5009	No	No		
7189	5009	No	No	STONE	Skaill knife
7190	5009	No	No	IRON (FE)	FE object
7191	5009	No	No	SLAG	1 small lump
7192	5009	No	No	STONE	Skaill knife
7193	5010	No	No	STONE	Worked stone
7194	6007	No	No	POTTERY	PH - 1 body sherd
7195	6006	No	No	POTTERY	PH - 1 body sherd
7196	6006	No	No	POTTERY	PH - 1 rim
7197	6006	No	No		Worked stone disc/pot lid

SF	Context	Unstrat	NFS	Material	Description
7198	6006	No	No	POTTERY	PH - 2 frags
7199	4013	No	No	CU ALLOY	Copper object
7200	4013	No	No	POTTERY	PH - 1 body sherd
7201	4018	No	No	STONE	Worked stone
7202	4034	No	No	POTTERY	PH - 1 body sherd
7203	4012	No	No	POTTERY	PH - 1 body sherd
7204	4012	No	No	POTTERY	PH - 1 body sherd
7205	4012	No	No	POTTERY	PH - 1 body sherd
7206	4012	No	No		PH - 1 body sherd
7207	4012	No	No	POTTERY	PH - 1 crucible frag
7208	4012	No	No	STONE	Worked stone - grinding stone/hammerstone
7209	4012	No	No		PH - 1 body sherd
7210	4012	No	No		PH - 1 body sherd
7211	4012	No	No	POTTERY	PH - 1 body sherd
7212	4012	No	No	POTTERY	PH - 1 body sherd
7213	4012	No	No	POTTERY	PH - 1 body sherd
7214	4010	No	Yes	POTTERY	PH - 1 body sherd from sieve
7215	5009	No	Yes	STONE	Skaill knife from sieve
7216	4060	No	Yes	POTTERY	PH - 1 base, 2 frags from sieve
7217	4010	No	Yes	STONE	Possible worked stone
7218	5009	No	No	STONE	Whetstone
7219	5009	No	No	SLAG	1 small lump
7220	5013	No	No	STONE	Just a stone...pot?
7221	4012	No	No	BONE	Antler handle - fits with SF7266
7222	4012	No	No	POTTERY	PH - 1 base, 1 body sherd
7223	3888	No	No	STONE	Possible game counter
7224	3888	No	No	POTTERY	PH - 1 body sherd
7225	4088	No	No	POTTERY	PH - 1 body sherd
7226	4087	No	No	POTTERY	PH - 1 body sherd
7227	3888	No	No		PH - 5 body sherds and 2 frags
7228	4012	No	No	POTTERY	PH - 1 body sherd
7229	4087	No	No	POTTERY	PH - 1 body sherd
7230	4087	No	No	POTTERY	PH - 1 body sherd
7231	4087	No	No	POTTERY	PH - 1 body sherd
7232	4087	No	No	POTTERY	PH - 1 body sherd
7233	4087	No	No	POTTERY	PH - 1 base
7234	4087	No	No	POTTERY	PH - 1 body sherd
7235	4087	No	No	POTTERY	PH - 1 rim
7236	4087	No	No	POTTERY	PH - 1 base or mould frag
7237	4087	No	No	POTTERY	PH - 4 frags
7238	4087	No	No	FIRED CLAY	1 lump fired clay
7239	4087	No	No	POTTERY	PH - 1 frag
7240	4087	No	No	POTTERY	PH - 1 frag

SF	Context	Unstrat	NFS	Material	Description
7241	3087	No	No	POTTERY	PH - 1 body sherd
7242	4087	No	No	POTTERY, FIRED CLAY	PH - Degraded pottery/fired clay, 16 frags
7243	4091	No	No	SLAG	I lump
7244	3911	No	No	POTTERY	PH - 1 body sherd
7245	4087	No	No	POTTERY	PH - 1 frag
7246	4012	No	No	POTTERY	PH - 1 frag
7247	3911	No	No	POTTERY	PH - 1 body sherd
7248	3911	No	No	BONE	Worked antler
7249	4013	No	No	POTTERY	PH - 1 body sherd
7250	4013	No	No	POTTERY	PH - 1 body sherd
7251	4013	No	No	POTTERY	PH - 1 body sherd
7252	4013	No	No	POTTERY	PH - 2 body sherds
7253	4013	No	No	POTTERY	PH - 1 body sherd, 1 frag
7254	4012	No	No	POTTERY	PH - 1 frag
7255	4013	No	No	POTTERY	PH - 2 rims
7256	4087	No	No		PH - 1 frag
7257	4013	No	No	POTTERY	PH - 3 body sherds
7258	4013	No	No	POTTERY	PH - 1 body sherd and 1 frag
7259	4013	No	No	POTTERY	PH - 2 body sherds, 1 rim, 5 frags
7260	4013	No	No	POTTERY	PH - 1 body sherd and 3 frags
7261	4013	No	No	POTTERY	PH - 4 bases, 1 body, 4 frags
7262	4013	No	No	POTTERY	PH - 9 frags
7263	4060	No	No	FIRED CLAY	Fired clay object
7264	3941	No	No	POTTERY	PH - 1 rim - from behind 3914 orthostat
7265	5009	No	No	STONE	Large hone stone
7266	4088	No	Yes	BONE	Antler handle frag - fits with SF7221
7267	4013	No	Yes	POTTERY	PH - 4 body sherds
7268	4017	No	Yes	SLAG	6 lumps
7269	4010	No	Yes	STONE	Worked stone
7270		Yes	Yes	STONE	Worked stone
7271		Yes	Yes	POTTERY	PH - 4 rims, 3 bases, 4 body sherds, 8 frags
7272		Yes	Yes	POTTERY	PH - 1 rim, 2 body, 6 frags
7273		Yes	Yes	STONE	Worked stone
7275	4060	No	Yes	STONE	Possible whetstone from tray
7276	4064	No	Yes	POTTERY	PH - 2 frags conjoining from sieve
7277	4060	No	Yes	SLAG	1 small lump of vitrified something, slag? - from sieve
7278	6022	No	No	BONE	Cod fish
7279	4107	No	No	POTTERY	PH - 1 body sherd
7280	4107	No	No	POTTERY, STONE	PH - 1 frag, Decorated, maybe stone or coal?
7281	6022	No	No	POTTERY	PH - 1 body sherd
7282	6022	No	No	BONE	Cattle humerus
7283	6022	No	No	POTTERY	PH - 1 body sherd
7284	6022	No	No	BONE	Bone - cranium frag

SF	Context	Unstrat	NFS	Material	Description
7285	6022	No	No	BONE	Bone
7286	6022	No	No	POTTERY	PH - 1 body sherd
7287	6023	No	No	POTTERY	PH - 1 body sherd
7288	6025	No	No	BONE	Rib bone
7289	5009	No	Yes	STONE	Stone Scraper - from sieve
7290	4060	No	Yes	BONE	Worked/butchered bone
7291	5009	No	Yes	STONE	Skaill knife - from sieve
7292	4012	No	No	POTTERY	PH - 1 body sherd
7293	4012	No	No	POTTERY	PH - 1 frag
7294	4013	No	No	POTTERY	PH - 1 body sherd
7295	4013	No	No	BONE	Antler handle/worked antler with rivet hole
7296	4087	No	No	POTTERY	PH - 1 body sherd
7297	4012	No	No	POTTERY	PH - 2 frags, conjoining
7298	4087	No	No	POTTERY	PH - 1 body sherd and 1 frag
7299	4012	No	No	BONE	Antler
7300	4012	No	No	POTTERY	PH - 1 body sherd
7301	4087	No	No	POTTERY	PH - 2 frags
7302	4087	No	No	POTTERY	PH - 1 body sherd and 1 frag
7303	4012	No	No	POTTERY	PH - 1 rim
7304	4087	No	No	POTTERY	PH - 1 frag
7305	4012	No	No	POTTERY	PH - 1 body sherd
7306	4012	No	No	POTTERY	PH - 1 body sherd
7307	4012	No	No	POTTERY	PH - 1 body sherd and 3 frags
7308	4012	No	No	POTTERY	PH - 2 body sherds
7309	4087	No	No	POTTERY	PH - 1 body sherd
7310	4012	No	No		PH - 1 body sherd
7341	4012	No	No	POTTERY	PH - 1 body sherd
7342	5015	No	No	BONE	Bone for radiocarbon dating
7343	4012	No	No	POTTERY	PH - 2 frags
7344	4012	No	No	POTTERY	PH - 1 body sherd
7345	4012	No	No	POTTERY	PH - 3 frags
7346	4012	No	No	STONE	Loom weight??
7347	4067	No	No	STONE	Possible worked stone
7348	4118	No	No	POTTERY	PH - 1 frag
7349	4067	No	No	STONE	Possible worked stone
7350	6003	No	No	POTTERY	PH - 1 body sherd
7351	4067	No	No	POTTERY	PH - 1 body sherd
7352	4067	No	No	STONE	Possible hammerstone
7353	4089	No	No	STONE	Worked stone
7354	6006	No	No	POTTERY	PH - 1 frag
7355	6006	No	No	POTTERY	PH - 1 body sherd
7356	6006	No	No	FIRED CLAY	Furnace lining - 7 frags
7357	6006	No	No	BONE	Whale bone? comb

SF	Context	Unstrat	NFS	Material	Description
7358	6006	No	No	FIRED CLAY	Furnace lining - 12 frags
7359	6006	No	No	FIRED CLAY	Furnace lining - 6 frags
7360	6006	No	No	POTTERY	PH - 1 body sherd
7361	6006	No	No	POTTERY	PH - 2 frags
7362	6006	No	No	FIRED CLAY	Furnace lining - 3 frags
7363	6006	No	No	SLAG	1 small lump, very corroded
7364	6006	No	No	POTTERY	PH - 1 base
7365	6006	No	No	POTTERY	PH - 2 body sherds
7366	6006	No	No	POTTERY	PH - 1 body sherd
7367	4106	No	No	POTTERY	PH - 1 body sherd
7368	4106	No	No	POTTERY	PH - 1 base, 1 frag
7369	4117	No	No	POTTERY	PH - 1 rim
7370	3800	No	No	POTTERY	PH - 1 frag
7371	3800	No	No	POTTERY	PH - 1 frag
7372	3800	No	No	POTTERY	PH - 1 rim, 1 frag
7373	4067	No	No	STONE	Broken pot lid from a top whale bone
7374	3800	No	No	POTTERY	PH - 1 body sherd, 1 frag
7375	3800	No	No	POTTERY	PH - 1 body sherd, 1 frag
7376	3800	No	No	POTTERY	PH - 1 body sherd and 1 frag
7377	4067	No	No	STONE	Hone stone
7378	3672	No	Yes	STONE	Skaill knife from sieve
7379	4013	No	Yes	POTTERY	PH - 2 body sherds
7380	4006	No	Yes	SLAG, FIRED CLAY	SLAG/FIRED CLAY FROM FURNACE
7381	4012	No	Yes	POTTERY	PH - 1 body sherd + 3 frags
7382	5009	No	Yes	STONE	Worked stone
7383	5009	No	Yes	STONE	Worked stone
7384	6006	No	No	POTTERY	PH - 3 frags and 1 rim
7385	6006	No	No	POTTERY	PH - 2 frags
7386	6006	No	No	POTTERY	PH - 6 frags
7387	6006	No	No	POTTERY	PH - 1 body sherd
7388	6006	No	No	POTTERY	PH - 1 frag
7389	6006	No	No	POTTERY	PH - 1 body sherd and 4 frags
7390	6006	No	No	POTTERY	PH - 1 body sherd
7391	6006	No	No	STONE	Skaill knife
7392	6006	No	No	POTTERY	PH - 1 body sherd
7393	6006	No	No	POTTERY	PH - 1 frag
7394	6006	No	No	POTTERY	PH - 2 frags
7395	6006	No	No	PUMICE	1 burnt pumice
7396	6006	No	No		Ph - 1 frag
7397	6006	No	No		PH - 1 rim
7398	6006	No	No	POTTERY	Ph - 2 frags
7399	6006	No	No	POTTERY	PH - 1 body sherd
7400	6006	No	No	POTTERY	PH - 1 frag

SF	Context	Unstrat	NFS	Material	Description
7401	6006	No	No	POTTERY	PH - 1 body sherd
7402	6006	No	No	POTTERY	PH - 1 body sherd
7403	6006	No	No	BONE	Bone pin point
7404	6006	No	No		PH - 2 frags
7405	6006	No	No	POTTERY	PH - 1 frag
7406	6006	No	No	POTTERY	PH - 1 body sherd?
7407	4085	No	No	POTTERY	PH - 1 body sherd
7408	4091	No	No	POTTERY	PH - 1 base
7409	4085	No	No	POTTERY	PH - 7 body sherds
7410	4085	No	No	POTTERY	PH - 1 body sherd
7411	4085	No	No	POTTERY	PH - 2 body sherds, 1 frag
7412	4091	No	No	POTTERY	PH - 1 frag
7413	4091	No	No	POTTERY	PH - 2 bases conjoining
7414	4091	No	No	SLAG	1 small lump
7415	4091	No	No	POTTERY, STONE	PH - 1 body sherd (probably just a stone)
7416	4091	No	No	POTTERY	PH - 1 frag
7417	4091	No	No	SLAG	1 medium lump
7418	4091	No	No	POTTERY	PH - 5 frags
7419	4091	No	No	POTTERY	PH - 1 frag
7420	4085	No	No	POTTERY	PH - 1 body sherd, 1 base, 1 rim
7421	4012	No	No	POTTERY	PH - 3 frags
7422	4012	No	No	POTTERY	PH - 2 body sherds
7423	4095	No	No	STEATITE, POTTERY	Steatite bowl and pot, PH - 1 body sherd
7424	6020	No	No	STONE	Worked stone disc/pot lid
7425	6018	No	No	BONE	Odd articulation - sheep skull and cow bones
7426	3800	No	No	POTTERY	PH - 1 body sherd
7427	4085	No	No	POTTERY	PH - 1 body sherd
7428	4085	No	No	POTTERY	PH - 2 bases? and 1 body sherd
7429	4085	No	No	POTTERY	PH - 1 body sherd
7430	4084	No	Yes	POTTERY	PH - 4 frags from sieve
7431	4013	No	No	STONE	Worked stone object
7432	4013	No	No	STONE	Stone object/worked
7433	4105	No	No	BONE	Bone pin frag
7434	4106	No	No	POTTERY	PH - 1 frag
7435	4085	No	No	SLAG	1 large, 5 small lumps
7436	4105	No	No	BONE	Worked/butchered bone
7437	4085	No	No	POTTERY	PH - 1 body sherd and 1 frag
7438	4106	No	No	POTTERY	PH - 1 frag?
7439	4105	No	No	BONE	Antler
7440	4105	No	No	STONE	Worked stone
7441	4105	No	No	BONE	Antler knife handle
7442	4109	No	No	STONE	Worked stone

SF	Context	Unstrat	NFS	Material	Description
7443	4085	No	No	POTTERY	PH - 3 body sherds and 3 frags, decorated with finger imprints?
7444	4111	No	No	POTTERY	PH - 1 frag
7445	4111	No	No	POTTERY	PH - 1 body sherd
7446	4111	No	No	POTTERY	PH - 1 body sherd
7447	4106	No	No	SLAG	1 medium lump slag
7448	4060	No	Yes	SLAG, IRON (FE)	Iron object/slag, 4 pieces, from sieve
7449	4013	No	Yes	POTTERY	PH - 4 body sherds, 12 frags from sieve
7450	4085	No	Yes	SLAG	2 small lumps from sieve
7451	3800	No	No	POTTERY	PH - 1 frag
7452	4085	No	No	POTTERY	PH - 1 base, 1 body sherd, 2 frags
7453	3800	No	No	POTTERY	PH - 1 frag
7454	4013	No	Yes	POTTERY	PH - 1 Body sherd, 1 rim, 7 frags, from sieve
7455		Yes	Yes	POTTERY	PH - 1 frag
7456		Yes	Yes	POTTERY	PH - 1 frag
7457	5015	No	No	BONE	Bone for radiocarbon dating
7458	5015	No	No	BONE	Bone for radiocarbon dating
7459	4013	No	No	POTTERY	PH - 1 lug frag?
7460	6023	No	No	BONE	Bone for radiocarbon dating
7461	4013	No	No	POTTERY	PH - 1 body sherd
7462	4013	No	No	POTTERY	PH - 1 body sherd
7463	4013	No	No	POTTERY	PH - 1 body sherd
7465	3779	No	No	STONE	Stone bowl
7466	6022	No	Yes	POTTERY	PH - 3 body sherds, 3 frags
7467	6008	No	No	BONE	POSSIBLY SEAL BONE
7468	4060	No	No	POTTERY	PH - 4 BODY SHERDS, 4 FRAGS
7469	4067	No	No	BONE	Bone for radiocarbon dating
7470	4067	No	No	POTTERY	PH - 1 frag
7471	4067	No	No	STONE	Worked stone
7472	4067	No	No	STONE	Stone lamp? Frag
7473	4067	No	No	STONE	Worked stone
7474	4067	No	No	POTTERY	PH - 1 frag
7476	4067	No	No	POTTERY	PH - 1 frag
7477	4067	No	No	BONE	Bone for radiocarbon dating, from directly next to â€œnewâ€• whale bone
7478	4067	No	No	POTTERY	PH - 1 body sherd
7479	4067	No	No	BONE	Pig? bone for radiocarbon dating
7480	4067	No	No	BONE	Bone for radiocarbon dating
7481	6000	No	No	POTTERY	PH - 1 body sherd
7482	4012	No	Yes	POTTERY	PH - 2 frags from tray
7483	4067	No	Yes	POTTERY	PH - 2 frags from sieve
7485	4107	No	Yes	POTTERY	PH - 2 body sherds, 4 frags, from sieve
7486	4064	No	Yes	POTTERY	PH - 3 frags from sieve
7487	4111	No	Yes	POTTERY	PH - 1 rim, 4 frags, from sieve

SF	Context	Unstrat	NFS	Material	Description
7488	4111	No	No	OTHER, IRON (FE), SLAG, FIRED CLAY	Industrial waste/fired clay/metal covered with clay? 7 lumps
7489	4067	No	Yes	STONE	Possible worked stone from tray
7490	4085	No	Yes	STONE	possible worked stone from tray
7507	4060	No	Yes	CU ALLOY	Cu alloy ring from sieve
7508	4060	No	Yes	SLAG, IRON (FE)	Iron object/slag? From sieve
7509	4060	No	Yes	POTTERY	PH - 1 frag from sieve
7510	4085	No	Yes	POTTERY	PH - 1 body sherd from sieve
7511	4085	No	Yes	SLAG	Slag - 1 small lump from sieve
7512	4013	No	Yes	POTTERY	PH - 1 body sherd from sieve
7513	4060	No	Yes	SLAG	Slag - 1 large, 1 small lump from near furnace, from tray
7514	3800	No	No	POTTERY	PH - 4 bases, 8 body sherds, 14 frags some conjoining
7515	4067	No	No	BONE	Worked whale bone
7516	4067	No	No	POTTERY	PH - 1 body sherd
7517	4067	No	No	STONE	Worked stone
7518	4056	No	No	SLAG	1 large lump slag
7519	4058	No	No	SLAG	1 medium lump slag
7520	4087	No	No	POTTERY	PH - 1 body sherd, 3 frags
7521	4088	No	Yes	POTTERY	PH - 1 frag from tray
7522	4012	No	Yes	POTTERY	PH - 1 rim, 2 body sherds, 5 frags from sieve
7523	6006	No	Yes	STONE	Stone flake from tray
7524	6006	No	Yes	FIRED CLAY	Furnace lining? From tray
7525	4088	No	Yes	POTTERY	PH - 1 rim, 2 body sherds, 1 frag from sieve
7526	4012	No	Yes	POTTERY	PH - 1 base frag from tray
7528	5016	No	No	BONE	Cod articulate
7529	4067	No	No	BONE	Crumbs from within whale bone socket
7530	4067	No	No	BONE	Worked bone point
7531	4056	No	No	FIRED CLAY	Fired clay object
7532	4087	No	No	POTTERY	PH - 3 body sherds, 1 base, 11 frags
7533	4087	No	No	POTTERY	PH - 1 frag
7534	4067	No	No	POTTERY	PH - 2 bases, conjoining
7535	4067	No	No	POTTERY	PH - 1 body sherd
7536	4067	No	No	STONE	Possible worked stone? Maybe just a stone?
7537	4067	No	Yes	STONE	Worked stone
7538	4067	No	No	IRON (FE)	Possible iron object
7539	4067	No	No	POTTERY	PH - 1 body sherd, 3 frags
7540	4067	No	No	POTTERY	PH - 1 frag
7541	4067	No	No	POTTERY	PH - 1 rim, 1 frag
7542	3900	No	No	BONE	Bone for radiocarbon dating, from between orthos-3900
7543	4128	No	Yes	SLAG	1 small lump glassy slag, from sieve
7544	6020	No	No	BONE	Bone for radiocarbon dating
7545	6006	No	Yes	STONE	Possible worked stone? from tray
7546	4060	No	Yes	POTTERY	PH - 1 base, 4 body sherds, 2 frags, from sieve
7547	4135	No	No	SLAG	I medium lump slag

SF	Context	Unstrat	NFS	Material	Description
7548	4135	No	No	BONE	Bone for radiocarbon dating, by furnace
7549	4067	No	No	STONE	Worked stone/pot lid
7550	4142	No	No	BONE	Whale bone socket
7561	4067	No	No	STONE	Worked stone?
7562	4067	No	No	STONE	Worked stone?
7563	4067	No	No	STONE	Worked stone?
7564	4067	No	No	STONE	Worked stone / pot lid
7565	4067	No	No	STONE	Worked stone?
7566	4140	No	No	STONE	Hammer stone
7567	4140	No	No	POTTERY	PH - 1 body sherd
7568	4142	No	No	IRON (FE)	Fe tang bits

Appendix 6: Artefact record photographs

These photographs are record shots only, taken on the iPad at the time of recording the artefact.

SF	Artefact Photo	Bag photo
7073	7F8E192E-DF3D-4111-82BD-334BEB1A35A9.jpg; 7EEDBC08-1685-4FC4-BA3C-FD0779181E51.jpg	C8BC680C-56F8-49E9-90E4-1B1776A861B6.jpg
7074	43377800-F9B1-4C90-A9C8-E021ABE53044.jpg; 026FD00C-12FA-44DA-A4F4-E659118D85D8.jpg	8CED5DBE-8BE1-470B-8892-C5AD10995855.jpg
7075	955034F3-E4B2-4CF9-8F8C-86F7FF2AC026.jpg; 4F106B6B-85C3-400F-8986-FF28741DD048.jpg	B95C7714-AC48-43DF-BB02-86E025BF98CA.jpg
7076		
7077	80DA34B6-14BA-4CCD-9B28-9894C457C0DB.jpg; EEE51BBA-8320-4E23-BFF3-11ACD575BFB0.jpg	2DE6070D-029C-4ABD-92B1-71ADA15BC754.jpg
7078	4E3EEA6A-D099-4270-BAB1-4B5F7CC85981.jpg; C6970D9E-07EA-46C4-8AF9-F3CB8FFD08AB.jpg	200A240A-58C5-4150-B023-B875151279F4.jpg
7079	715C4355-BF67-4617-9F8B-2765F02C61C1.jpg; 22C46115-E678-49F4-A052-6FC607CF221E.jpg	37E3CF6C-46CF-4B55-A354-1A3A22F71481.jpg
7080	61613A26-C6B5-48B5-8446-8B907EA83800.jpg; 97C8D094-11E5-4E3C-936C-BD8FCC799AAA.jpg	42E3B601-2E12-48D5-8717-199FDCD9AB53.jpg
7081	5B6DCAD0-622D-4F82-A074-2F3834F5DE72.jpg; E3D286C5-60A6-4FB2-AF08-7BC4EBDAB760.jpg	2261249E-7B21-40B1-B771-66F42EDB8E18.jpg
7082	E7B77331-3626-4587-BAD1-679F8507D81E.jpg; 5CE0B357-D7D7-4B41-922B-23EC15FD1D76.jpg	E6EDBFBA-D160-4211-AB94-0433EA4A42D6.jpg
7083	90B8C89E-8F01-43FD-AE1D-232F2D26689D.jpg; 0C8F3F3B-55D8-42F7-8AB2-85F752AF9575.jpg	D7FC750D-57D3-4C0E-8159-4BA9A73DCEC6.jpg
7084	D600446D-BC7F-4EAD-A6D8-62539ECC969F.jpg; E67F140C-2C35-4D0C-BE36-4BD7CF057E30.jpg	EA08D781-31DC-40EE-9189-BD06AED26F7E.jpg
7085	9447DA5E-E24A-4117-A388-0266ABE34090.jpg; 6E5B6FE1-D1EC-4D35-8910-D426AA00FE9C.jpg	BC4E7629-521E-4846-9BF4-F10E71BFA473.jpg
7086	511501D7-B3EA-4832-81EE-C91FF547B103.jpg; 49103AF9-F893-41FA-9EF8-5ACFEB2BE5B7.jpg	BC8AC675-09E3-42C0-99BF-8A961213698D.jpg
7087	B2ACC369-AA33-4844-8D46-13D993397DA7.jpg; 7866A888-1298-412D-8C23-FB372C08B824.jpg	5D820703-160F-49E9-B4C0-1327D0BFF094.jpg
7088	BC468E16-38CE-4CD0-BD20-2EF963013F06.jpg; AC384CD0-17E6-4170-B716-BF485F7B6733.jpg	DA5CA582-4AF4-4DD9-A6FC-4AE2130F63EB.jpg
7089	20B4C21A-5AD8-4DE2-8701-78727D05F7CC.jpg; E794A879-959B-4313-889A-09E16080D058.jpg	C8D0067F-D38E-40BA-BEAF-48BE36D541ED.jpg
7090	AB460F7B-A024-4039-B79F-A18C167E270B.jpg	8F9F0941-378C-4994-A8CA-A13F903B9871.jpg
7091	547266A7-BD24-449B-A7F0-51BB18DF7EC3.jpg; F4F527A8-018E-4B88-8BC5-12C7B66F3346.jpg	AC4BBA72-9613-4E34-9009-1738C06C0C7B.jpg
7092	286811C0-486F-46A4-A489-0E190C9C6D40.jpg; A7DF049F-6B5E-4701-B191-7B1CB4FA88A1.jpg	893B21B7-1D77-4214-B4D3-D053985F409E.jpg
7093	160E7427-48A3-4C96-9055-889CBFCEEA9D.jpg; 7B0718B0-C0CA-4DB5-A2FA-EAF635CD5B26.jpg	9805418E-26DB-4FB0-8A06-385659406709.jpg
7094	EA6AEB42-0373-47D9-B74E-946CDDEAA970.jpg; 89AFE482-1D34-4528-AAA5-CABBA9696207.jpg	D75C8E8A-955E-4A18-B122-80395CD3F4F7.jpg
7095	E3CE73E2-08AA-4D69-8B4D-6625F5854181.jpg; 6CCC4059-005B-43C4-A9A1-102F15A186DB.jpg	32C9FC66-9941-42DE-8764-57E0BAA3DA9B.jpg
7096	2AD3F9CE-833C-47DD-A764-25B58892FC58.jpg; 72CCC22D-C8AC-4F98-A5E5-9FE1D195D544.jpg	E385D9D4-E361-462B-9E8F-A65352DB63FF.jpg
7097	19FA3F07-6D9D-4811-B13A-4277C7EE9610.jpg	043DC071-DFF4-447E-8561-0C61FC794ACE.jpg
7098	06F7E339-FDB5-4631-A231-25F35FAB2E6C.jpg; 9D6051CD-AB44-45E4-926B-A0E004E716A7.jpg	35292BAC-393A-459D-B56A-38EB507F8473.jpg
7099	E0DCD09C-7B2E-420C-80B9-C56ADFD16837.jpg; 0089BA26-81DD-4553-AA9D-7490730C990D.jpg	5A6F693E-A983-40B2-8A5E-BD0A0AE9D169.jpg
7100	540B32A3-246D-46E7-BFD0-638904158628.jpg; E1873025-9E29-4808-B7AB-92092BE0D60B.jpg	987128FD-300A-4CEA-9349-89FB25F508DB.jpg
7101	9745B654-9CEE-4E60-A238-FDA49C30F16B.jpg; CA9A2C82-5261-416B-ACFB-6D8954AB03C9.jpg	57E2647D-1CAC-4C44-B414-C8A2110BA86E.jpg
7102	6F220193-9476-4B68-918B-6C3EF3217D8D.jpg; AD57B56F-1908-4BB8-A7CE-0CE35009D459.jpg	AE38CA26-4FF3-447E-B54C-98A53CA4AA63.jpg
7103	ECE1863F-8991-4B1B-B3F7-3AE5C3DEA6B9.jpg	A8738C7C-C825-401F-A1D1-EEE8E88D3B83.jpg
7104	0314FB84-5B0E-4B0E-8148-D5D86155A4CE.jpg; 58A6FFF9-8D56-43FB-8227-3233D8E3183E.jpg	FA625CA2-C815-42C6-B2B3-55A5917BA327.jpg
7105	B961F44E-3121-4DF1-92EC-A8F2A1AF9200.jpg; 3F3211CD-0372-438F-965C-3F4D65A70DF0.jpg	9E762575-4D8E-4087-9F25-04CB9C51CCB7.jpg

SF	Artefact Photo	Bag photo
7106	D58D3FBD-2032-4FF1-8C93-1C84266B6E1D.jpg; 9EBDB05A-9D64-4CDE-9DED-7AC5F8326C60.jpg	3AF5E573-C571-40C8-8362-1091305A54F8.jpg
7107	C4949B45-3C74-40E6-B3EA-19E85A7C3815.jpg; 4EC583B9-69B8-4B8F-B8D5-203AD2CD2F2D.jpg	FE11560D-B10C-499A-8B08-05942759E053.jpg
7108	EE88CE6A-4ED0-4918-97B3-31EF78AC6BF8.jpg; 236BB649-8C08-4B23-8739-A4911C1D3347.jpg	D310C912-8CD4-4253-BABF-030934E07E9A.jpg
7109	3A76198E-1BDF-4649-A441-AAF73A1B67A1.jpg; 4CAE6E9F-3036-4AE1-85FB-747CE537DF62.jpg	84CC7920-BC9D-458C-B09D-9EA576E170C2.jpg
7110	CF24DAC7-F3F2-4B00-9C78-48061DDD4ED0.jpg; E6716CA1-B458-49B1-B640-8ADDE85B0629.jpg	4FB9F166-28B1-4724-ABA2-99C525BD6105.jpg
7111	E4FB3EF1-A278-4401-A82B-B62B67285FCE.jpg; B29A9D26-1CEA-411F-8293-EEBFB7B98B7F.jpg	482C5775-6356-44C6-B8AA-EE19D09D543D.jpg
7112	7CAEE616-0BC4-4F84-8AF8-0A1D4442B1CA.jpg; 3EB231D4-8AC7-4432-AA7E-E508F2226A13.jpg	92E7195B-0E37-4205-8F78-0DAB153B38EC.jpg
7113	E499468F-90D6-4454-8C37-6805DD8DD4C4.jpg; C696F1C5-FA3E-48C0-81C1-09044C626D5F.jpg	9611FDE3-7CD9-4EA2-A2AD-C78CEFB2D83D.jpg
7114	02981410-93DA-454F-B031-14BB925D7432.jpg; 815601D2-C46D-4374-AEF1-5F9FE4941BEB.jpg	78726C77-C497-4388-B5FC-FE8BF3186102.jpg
7115	6B006FE8-D09E-41D8-AC8E-40356F9E68C5.jpg; 3EDA0837-3FC3-43A3-97B6-D2C38299D298.jpg	1AD7B0B0-4621-40F0-A15E-D3EFF4B1BAEB.jpg
7116	16FCBDC1-A4F3-4ECF-A4A5-3C43230D14CC.jpg; EB2511A4-DDEE-45C1-9E8E-CEC266D093C2.jpg	A8AA0B1D-1E07-49FF-89C2-79274E07EB94.jpg
7117	2A1686D8-FE4D-4175-BD86-722DC3C5A94C.jpg; ECA199BD-C6BE-40CD-B695-8CB0C128048C.jpg	3673C336-D0EB-48CC-BC9B-081DAF5FCCFD.jpg
7118	6C5E2588-D915-4F79-8760-11225014FFDF.jpg; B6BC8E41-2C85-4B87-A7DC-3E7DC45CB80E.jpg	6AB6A020-CF5E-4AEE-9E4E-5CB0B8C726E4.jpg
7119	C854AC63-3540-4AB5-A55B-384797C5AA13.jpg; 4B83792E-5FD4-4833-8811-0B04C0E92F01.jpg	63E14175-90AC-45A9-85C3-626EA9017946.jpg
7120	45CACA6A-6C7E-4589-96FF-4D4B202C07CC.jpg; 909BCBE5-B513-4E5D-BCAD-3E4A59C14C6C.jpg	E83CAA51-E4A5-4074-B971-CD39EA375518.jpg
7121	1EC3EF14-978B-4958-8CF9-618FA110EEAF.jpg; A0E4C2C3-5A04-4086-A54D-825206EE4A01.jpg	3082297C-4491-41B4-A521-EEEFBD235BBB.jpg
7122	53DC0688-2572-49DF-9E55-4DB8BEB178B1.jpg; 9CC9C991-CEFE-4F55-9162-F57F0A4A3AE0.jpg	6A87A85E-C517-4EF7-8B34-140931BBE2ED.jpg
7123	5FB7A50A-47BA-46E5-A0BF-9B2E76E711A7.jpg; F6BF9CA6-599F-4939-8509-DA184BED44A7.jpg	0855C0A2-A1A7-4277-AB07-1072BCFBB2B0.jpg
7124	13AA6CE6-598B-4C06-B664-CEC5788B0E5A.jpg; 65C2785D-9E7B-46C6-A0D7-1B6C072DA201.jpg	8E8534E7-1EE8-4911-B8BF-77B4576D8A41.jpg
7125	E816F234-0633-4031-860F-393BFD0B18BF.jpg; 5A49F818-FEA5-4E31-957F-2EA0AD57470F.jpg	7683CE01-258B-45DD-9D5D-AAEBC4BE69EE.jpg
7126	5ABFDE63-3920-42FB-A779-B947E8CF307C.jpg; 7B6AA60A-9DA1-4FF6-B00C-76F336BE6CB4.jpg	5F80D57C-9AFC-4EC6-9F1B-820D791A55A4.jpg
7127	71CD835A-A587-485E-8103-837E69722126.jpg; A8F1D34E-8E0F-4482-A555-2B956722B253.jpg	73BE9532-D5EF-4856-9808-ED78684D90F0.jpg
7128	A9D8AEC9-EB0A-48C6-A5A4-19AF1A61FB97.jpg; 8CD674B6-CBD5-4D87-8F41-B2F9720BEA45.jpg	B98FB2CA-F159-4313-96AF-70438DDA8537.jpg
7129	8A7FE6D1-7B69-4ED8-8408-E0C947874FB7.jpg; 092B9791-AE22-468F-A12D-A02D4AE0AA1A.jpg	DFE25836-8B8B-4A91-A50F-4004DFB1A631.jpg
7130	639C28B4-9F97-4F05-92FA-13A3B752F947.jpg; F4BF9AEB-1EA1-4748-BCEB-B01007D82D03.jpg	F3FD7650-BDA3-4779-80A7-B4EA1557BC99.jpg
7131	E652314C-AC30-489E-9544-29729F084467.jpg; 7DDF03FE-DFE8-4587-A391-82CA7E8FDFA1.jpg	D2AA6579-38D5-41C4-8164-679085E73005.jpg
7132	4FA25CFE-05D1-4401-A83C-DBEC53ACEB26.jpg; 130653FD-D8F5-409F-89FD-8072542FE4BF.jpg	FB1270AF-008B-459E-86A7-F2D04A946B8B.jpg
7133	0A4CD1ED-7E23-4DEC-92BB-1F49FE6CEDB0.jpg; 095EFDED-ED1E-46E8-B9C7-28D7C03CA146.jpg	BC14680E-B621-4A89-BAC2-199C6A4D7986.jpg
7134	7166E752-622B-4E7F-BB7C-3076C88D8373.jpg; E7A6CF58-FBF5-473A-BF57-FE9EFE2B0124.jpg	57286D7C-4F30-4A48-BC29-1829E3FB2C0A.jpg
7135	C41E4D08-A87C-4EB1-9BBF-0FAFCE4DE47A.jpg; 81AF0803-8FD0-45B4-9DAD-8A1F7A2F4331.jpg	2222E369-AB92-4951-B89B-AAB12E6D4632.jpg
7136	46E01A22-33C6-4B1D-BBD6-ADB189F1FE98.jpg; FC2E5CE3-5082-4527-BB35-CEDB8E5F682A.jpg	F70D4783-4408-4B23-A458-089C860D3CF2.jpg
7137	D8028680-B599-4477-B12F-FBCC1E589240.jpg; EAD22593-DA15-41A2-952E-9B3407E34D83.jpg	777A9E45-2E13-494A-A9B9-A5CF532A07BF.jpg
7138	0A668E9F-9A7C-4A4D-B107-4EBA96B1EFCB.jpg; C623218E-E0BF-490C-8E06-B89B4B1039AB.jpg	340BFA71-1BC6-445A-A0CE-542738F2F43D.jpg

SF	Artefact Photo	Bag photo
7139	ABCBCCEC-5289-46B6-B14B-30D8EEFD7548.jpg; 793D93EC-7D87-492E-A151-3668C9791DBA.jpg	FDF8897A-68A1-4EE6-94AE-2C47C093B1D1.jpg
7140	91B49552-F463-4D77-88BE-BF4F69E473E4.jpg; 28F67ADB-06B5-40E5-AA3D-21395671CE3D.jpg	ABC37D7C-5D0E-4643-8058-5E05B23A52F6.jpg
7141	22037042-2C47-46F4-85CB-DC4EDE50105A.jpg; 39D42797-AE0E-4C6D-953D-92672B772B83.jpg	9122C202-FA75-49A1-AB0B-4E7C831E0EDA.jpg
7142	052035E0-4CFD-46F7-9EFD-2492E20F7F61.jpg; F454CC9D-A521-4BEB-8044-661357B8F1B3.jpg	A61E0164-F635-454D-B0AF-70EF5981203B.jpg
7143	DBA2256C-307A-4166-98A4-E4F178B330E7.jpg; 15BD8A01-A85B-46AE-9A88-8D55C2003E7F.jpg	E6ED4A3B-5181-416A-B2F3-E065B88FCC23.jpg
7144	FCB7E1E9-A802-452C-8336-AAB6CCC8CB99.jpg; 69C19DA6-7622-4DD6-A3A9-05A25A2D7014.jpg	30175D60-E879-4F59-970E-B4A7F7BCF2AA.jpg
7145	FCA71553-B855-46BA-B989-47F3E30A8F2F.jpg; A512F4AE-EFCE-40EE-B3D6-5E6ACA22F9CD.jpg	9A05D6E9-9711-45C5-B8E8-631434297984.jpg
7146	4DED0156-D378-42D4-81BA-1ED7339D9272.jpg; A446AC57-90E4-4BFC-8D13-BB9944CDB3FD.jpg	8A06D762-E09A-4835-8D52-AB6B468C23BB.jpg
7147	F64670ED-A7A2-4F8B-B420-839074FDDC7C.jpg; 2E4C6F6E-082A-45B2-BAC2-DA32B031F93A.jpg	F920FE4E-31FA-4408-AB8D-1787542ACF27.jpg
7148	710A09B8-A04F-4297-BB37-67E8FCC67F9B.jpg; E63A2C3D-FDE1-49F5-8E67-33D32385FD97.jpg	BFFB5D18-7ED7-4543-B3DB-FFACF2A5E8AD.jpg
7149	36A7D783-E77C-4AB7-A349-B2C4042558AC.jpg; BCE39C80-6038-4536-B10A-C348E2BF190B.jpg	C5C3750C-6227-4CE2-8F53-8554E1A87641.jpg
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7198	4A6DC7BD-F379-4EE7-9139-3EE785EC66AF.jpg; 47E12897-42A5-4D9B-AA7E-EF43A79C8888.jpg	87156AAF-E124-4D31-A590-94F94F270A76.jpg
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7200	683C9E9B-6DDD-4D6B-B277-62F72C2CE4C2.jpg; F4EAF48B-89F5-4451-B2DB-10C84ED81A91.jpg	65252535-F3DB-477E-9DB5-87A21039FA8F.jpg
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7203	6EE331A7-54F8-4D87-BFE5-3A772B981043.jpg; 7150E289-09DB-4819-9030-7777D16187D7.jpg	AB711DB0-AE49-4C33-A7A8-2D059CE275BA.jpg
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7205	F9C78397-D5E7-44D6-B31F-196F6B3B15E6.jpg; 0E0870F2-9001-4580-BA4A-D75510F844C6.jpg	23890781-48AD-4F1E-83F6-96912F805F3D.jpg
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7208	BE7ADBED-BF77-466C-AB7F-A5AACFF14372.jpg; 6DCA30B1-D1BE-4D11-8214-746BBB6C7621.jpg	67DEB303-0982-4803-B0CB-5CFD43DF4134.jpg
7209	84E9A76D-C5A0-4AA8-9EA3-595F792EDE53.jpg; F195C6E0-8E0B-4D7B-B088-56F9BC166E9C.jpg	D1B9B33A-9B6B-4A74-80C8-A0D477DCA18B.jpg
7210	E0DAB05B-5444-44F5-9936-EFC779B6F2D4.jpg; F753C554-D1A9-4844-A9AC-C8F28C43340D.jpg	1F405B7C-C721-4431-9C61-F72128B4677C.jpg
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7242	08360E28-41B2-4301-A7CD-998D898DD839.jpg; 2A10B4FE-8AA9-4205-B604-18AC8F0B29B5.jpg	6C9B0251-1857-4CDB-A773-ED4895865CA8.jpg
7243	A5A91781-7FA2-466A-BF6B-42733DAC87BD.jpg; 8BCE1715-B90D-4F0F-8F80-584067ECC958.jpg	2393B7C1-0E78-4BDE-AF82-19796D58E618.jpg
7244	3326AB95-B729-4E28-8B11-DDC7136E9B2B.jpg; C414B621-25C7-49A4-BD2D-75D508C81741.jpg	A233D0E0-3C8B-44F6-8839-520B0E764FAD.jpg
7245	7FCEE953-0F8E-44B5-ABD3-4C384CEA3B2F.jpg; F3206433-8440-4EAF-A187-AEA95D883B9E.jpg	46D4B97C-7853-42BC-83B2-4E9B63C7D663.jpg
7246	32C172EE-948C-48AC-981A-FD618D46B935.jpg; E6A94056-837C-4EE4-B82A-696FAB090005.jpg	3A136356-4602-4EB9-8569-8154BD421D33.jpg
7247	9EDE5459-54D4-402D-92E6-487E0260D6E2.jpg; 5769B4C6-A0F7-443C-B66A-EAB6BBFE7E03.jpg	D167E238-C466-4F8E-9E07-AE3C081CAD5C.jpg
7248	605FF18E-429E-475B-8EA9-A087642D8EFA.jpg; A67E73D2-571E-47C5-BF90-431A19185D81.jpg	07CCF136-501A-4029-A96A-714CF77BA34C.jpg
7249	E1AD5A6B-9514-4848-B043-35A3811930FF.jpg; EB9D9E5D-4113-4718-A1E2-B306329A29E2.jpg	E189DE94-7E3D-42E7-8D32-DA417A3F78C1.jpg
7250	D4EAB349-66B3-4D3B-B128-808835772626.jpg; 7F7A607B-02E8-4FDE-B58F-A692DE26B9AE.jpg	99A535C8-E123-4B57-8DB9-BC734FC089B4.jpg
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7254	C8BF029C-F8B1-4B02-8CA8-6D14AD88A539.jpg; 6F7CE3A1-2639-45AC-BDA4-488FD6F8201D.jpg	8704BFC8-98D6-4B31-A38C-B41DAA529CDD.jpg
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7258	DB8DDD4F-3D59-4A29-8B5D-CECEC1F7742E.jpg; 68A580E9-AA9F-40FE-912B-E53D7CEF9A28.jpg	9211DA30-6AE6-497E-ABCC-0DDAF1C7C48E.jpg
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7275	814FB979-AAA3-4D85-BEE2-5FCE6C2BB76B.jpg; E25851A4-9FC5-4AFA-B9BF-D5A5199797D9.jpg	AF0AEAB1-E011-435B-81A4-B0EBF54C0E3A.jpg

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7278	81F2EDB5-7345-4643-A14A-4865EE269A23.jpg; D57B7127-7490-42F2-B467-D6AEA40BCA35.jpg	F341BF81-C3B3-4518-A797-87D9D4ADF835.jpg
7279	55B1540F-B0E9-4CCB-8804-A505753A341B.jpg; E8BAA7FD-6FAC-442B-B5FC-893E803B1564.jpg	39627AE5-0F96-44BC-B5B7-6E3E4C952EA5.jpg
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7281	3A82274C-B461-47A8-B194-B11C0D0F4F95.jpg; EA677304-96DB-4967-A5E3-E8B69D10CE9C.jpg	86F16469-255C-4742-8975-C3BAA928A1F4.jpg
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7283	7B879F37-64B7-4B00-BEA8-37D8573D02EC.jpg; AC766320-02B9-4B0F-B5FE-C6ADEC97BEC2.jpg	1AD36E48-1E93-4FCC-A2B1-38ACE3063662.jpg
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7289	61F1C6C3-5F17-491F-9F07-023E7E0728A3.jpg; 6D11DB87-7208-4F41-8657-89DC6D1A47B2.jpg	D6549737-CF3A-46FE-B643-140E056D5C48.jpg
7290	5EEE7B56-6C1B-4F5D-8265-CCB5FE12A5B0.jpg; A8C58DFE-445F-4A09-855E-21FDA6EC71E6.jpg	E2B52182-205F-4E95-B981-B35E5A4A6250.jpg
7291	662A0786-6D94-4311-9FCD-78F905560E10.jpg; B92150A6-6794-4F18-B637-294F6DD03F95.jpg	5B770723-7AE7-403F-8884-12D309488007.jpg
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7294	3892D3E6-8B54-4CCA-8A14-A04A9BEC0B64.jpg; 0DF716A3-A8B7-4F80-8EA0-5F0F0758D7F5.jpg	6C0BA375-31C5-4834-B8A5-5E8721D92887.jpg
7295	CCFC8F1D-60A2-476B-98D3-E809C82C1B70.jpg; 9BE0E3D8-0BD5-49E4-A2FC-726733DBDF42.jpg	19D16B80-42F0-4D56-B745-11B667E4A1F6.jpg
7296	CBA71A5B-0180-4A8E-B260-DD4E14750A0F.jpg; 7431DD3A-31E3-4B3A-A17F-EB0F387DEEB7.jpg	0DEBB754-A1E1-43D3-A849-223BDBE39713.jpg
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7298	E0B3B894-B2A1-4374-B2D9-86B87BE37C39.jpg; 5C587ADB-306A-418F-BCCC-217465ED3C43.jpg	34CFC6DA-4306-4A3F-B259-EC48FEA76BFF.jpg
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7302	0202B0D4-3192-4B94-B8C5-A28E51CB4F05.jpg; C76D167C-5502-498F-935D-B724735CC965.jpg	94BCA71A-EF22-41EB-AA3B-FB7A049011D3.jpg
7303	9CA31C0A-3A01-468F-A2EB-25F9343D9EEE.jpg; E75FFDF0-0633-47CA-A726-D34EFE371F48.jpg	DF302B42-05DE-41FF-A1DB-C5F135A4C340.jpg
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7305	E1CC24FA-672D-480A-855B-21AD8D588DF9.jpg; 590E4260-DB93-4067-907D-043F6F44E3EE.jpg	744A8F79-5B94-4AF1-8731-8CBC29E622DF.jpg
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7307	54DDB33B-B455-41EB-9F0B-4CAA04FF6AD8.jpg; 80B1ED08-6320-4830-8ED4-3F68738C8753.jpg	79E2EFA4-3503-46D4-8833-379206291BE6.jpg
7308	5E076C57-6BE2-4DF6-8443-14B89BDE7381.jpg; D2A07BF5-C269-48DC-AF7B-AEBEDD90F9E8.jpg	C4FC563A-9836-4436-B0D3-5CBCA9E8885D.jpg
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7457	CACDBAD4-6D75-4DAC-9CBA-10E17A547E4E.jpg; 6254ACAB-17DF-45A4-AB2E-E0459886D968.jpg	B409CBBD-C723-41E9-A1AF-0766B1C82C1C.jpg
7458	3834F649-CABA-4091-8842-73723B22139C.jpg; 086F589D-94F8-4F95-8DFE-4BF7F60BC423.jpg	DCAD6F1A-F231-4173-A1CE-3C88CB96C0DE.jpg
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7460	24BC739C-A11B-4F34-8294-13A8DC428462.jpg; F448C049-513A-465B-A9FB-83A38865D605.jpg	D98DFE22-87ED-4920-98E9-90DAA34B71C0.jpg
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7474	E9BEC954-BE35-4284-A615-FFC6136FEE43.jpg; 60CBB37A-A0CD-4D65-A98F-01B34151FBAA.jpg	E7FE6681-F886-4EA7-AACB-DC50555BF4B1.jpg
7476	11658D79-9457-48E4-86F6-921B3746C7B2.jpg; EE54EECD-A034-4BBE-99C1-45C6430585F7.jpg	A1EA3755-E6EA-4B80-8FEA-0376B40364CF.jpg
7477	64DD0DBB-17F7-4605-8563-BCD6FC03B558.jpg; 50F5E8A6-BBA0-4468-B781-E676BD5382A3.jpg	FD38F022-738B-45BC-9B03-B1B480185987.jpg
7478	C9761E51-DC79-4E78-8AC5-CFFBC5962D28.jpg; 4DD0A6EA-D392-4FD7-AA56-8BE655A15F86.jpg	5178DA8B-BBBB-41ED-8FF5-5F6C1624A819.jpg

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7480	07163B4B-4BDE-4C7A-92E4-AB4E57F95862.jpg; F4C5AACC-8A3B-48DB-84C3-FCA334665E8B.jpg	F3D95C90-BFC6-4C17-BFAB-4FC5F20E6D82.jpg
7481	5888460C-5A18-494B-A9F4-F2B954C4338F.jpg; 2E56DEF6-3389-4007-96F7-B027AD4F10EE.jpg	886C21CD-F5F3-42E8-A51B-B08F600E4A8B.jpg
7482	6AF4FCA0-A9C2-4314-B304-07FBD01BF464.jpg; 6EF36FF1-4E2F-4756-A86C-FDC478AFAD94.jpg	CA38F910-7673-4A69-9EFF-17A9D8AB8510.jpg
7483	0C85D6A7-A0DD-495B-A3CD-088F200AD994.jpg; CEFCA175-C1E0-49BE-85F0-0E03CE5AF12E.jpg	64AD6DC8-77CA-45CC-ABC5-43B63EB6E6BC.jpg
7485	7EA24E4A-52BA-4D8E-9325-D294AE8AF34A.jpg; A915558E-3C36-48D7-8089-6CEA2471A844.jpg	D374DCCA-72ED-4D73-95B6-A57042388D02.jpg
7486	29CEB1AA-484D-431C-B247-E4720E198ED5.jpg; A8313527-C7AE-460D-A69F-15AB3C83A4FE.jpg	4C7B9F07-A8DE-495B-A0E2-9243639021ED.jpg
7487	9855C52D-7533-4F19-B766-11E02160A431.jpg; 73A6C7CA-95EC-4216-BD40-42272202674D.jpg	AF5FB247-6A20-41BF-AEAE-882213A9BC85.jpg
7488	A0C0005B-AF51-48CA-BE41-E5848234DE72.jpg; 4334B424-668C-4AA5-96AD-85BFC7AD709F.jpg	C31D3694-6CCE-45AF-983C-6E092295EA42.jpg
7489	97E01804-872B-4E96-B49E-492E30983C9C.jpg; 2FDC880F-D954-4F3F-BF41-A87E44B67A3B.jpg	86D34A7A-477E-4DB7-A583-EBDBBB4BAAEB.jpg
7490	C08F4AD2-13E9-4D32-AE1B-D7D95FAFEF1D.jpg; 2C4F5EF5-42FE-4285-9614-DCBD5BFC91D3.jpg	412909DE-3ADE-4D38-A778-28FDF6871434.jpg
7507	57155034-AA58-4FCD-9FF1-3980180C98D7.jpg; 873298F6-0E8B-4678-B369-3A59DA3DC338.jpg	07433D9D-5D2B-45BF-A961-090723C5D756.jpg
7508	E3A6972F-4318-4F97-AC1D-AFEE4C3CCD3A.jpg; 2C200353-1BBB-490D-90F6-DFFB0F9C8024.jpg	8A2F4EAA-7029-46E9-92AE-0DDA95752AD3.jpg
7509	4B1640EE-02C3-4BAF-BF75-0B0D00236FAB.jpg; 9814E5B9-4803-405F-9501-17D6FCD0AD9B.jpg	13B9D354-56A7-4A17-AC4B-DF17079EAB77.jpg
7510	A5CDDC5E-26A4-4DFD-AA8B-53A56074E051.jpg; 7001B850-0C1B-429B-B2DA-C6003BCD7B68.jpg	C398E2B7-759C-4A37-A86D-DA70871CC87B.jpg
7511	3C815A48-BA94-46AF-99CA-E8EFCDC508A9.jpg; 606C94CD-B793-40FB-A859-43257EF81664.jpg	75369584-2AE5-4D84-86D9-4F55DBE26AC9.jpg
7512	2A128EB0-795E-4DCE-B214-4727343AB4D6.jpg; 1279C197-0198-4B66-9EB3-73132AC64F86.jpg	922CA15C-7555-4093-85E4-3EAC72E7EB27.jpg
7513	3E724A36-4858-4466-A71A-7B96F2AD7CA3.jpg; 2B17937A-A547-4FC3-BB29-79B8500B3487.jpg	BF5A0D71-D9FA-46E5-BF13-5C4E16F8D9B1.jpg
7514	D0F874E3-9A83-4D2C-B7FB-B060A5D49581.jpg; 9B06A286-64E7-4BD1-8EE2-EB6DA9AB30D1.jpg	928D17B2-7CD0-4ED1-A9ED-5A67DA3D6FE4.jpg
7515	1951B549-2403-4284-9FB0-1299B336A9ED.jpg; 569B4897-91F5-448C-918F-A7C742A52FE6.jpg	4F8CFC04-CFA0-4059-BC2D-888FC0265217.jpg
7516	212868DF-F234-4755-8B26-2597D3366829.jpg; 06B461C6-274D-4B6B-9A8F-633DEABFEBEC.jpg	3E7125DC-27F4-47BD-BF77-F54179E2FE97.jpg
7517	5432D701-F405-446B-87C6-7E29626A483B.jpg; C98A6357-8E11-47B8-9FB7-681CF39D58BA.jpg	F8A91F59-2731-434E-ACB3-484B11B53D3F.jpg
7518	2185B3B3-E12E-40BB-928D-EB0F53E5F51A.jpg; F2042ACB-8047-4302-A89D-F8D2D440FFE8.jpg	5A7963C4-670B-4B6F-911F-93F9F147543B.jpg
7519	E71481B2-D1DD-49CF-A75E-0361F2131255.jpg; 315FEF70-9A82-4673-9EE8-C5A91B8F7EBF.jpg	D19F05FF-7F46-4A64-A805-7AAC723AB124.jpg
7520	B054FC6A-AAED-4394-A428-575CBEB4E27D.jpg; B9DD0E27-20AF-41BC-A72D-D35F37C85F23.jpg	DC921151-3DD1-4F60-BC89-828EC4B4BA77.jpg
7521	F8259F64-2314-4256-A2BC-7733AD5CA519.jpg; D2A01ACC-BF6F-456F-A941-65C6E758DEB0.jpg	A2D03E57-1E42-47E5-94B1-8A2695DDE64B.jpg
7522	A62BC03F-2721-4D85-A865-BE745E89FBE7.jpg; 8D955DCD-24AA-46C2-9252-76D1622C2566.jpg	13B1AACC-19C8-42E2-9DFE-4C645D62B290.jpg
7523	AAE01C8C-63E6-433A-AC76-875572D2F528.jpg; 8BE26485-E93B-4E19-AE15-169EC5805A92.jpg	F95AB9AD-72DF-4B22-ABBB-9EA3A0957118.jpg
7524	9FD5E5A7-15EC-4A4C-A6B1-E99F9ECB5664.jpg; 9E8ACA85-E030-4A3C-A077-D3CDE669F444.jpg	AE055CA4-78FB-496B-A10F-C361065286DA.jpg
7525	C2B5E2B4-1F80-46F9-B3DE-9D90FF5FE7E3.jpg; 229A571D-C4C8-4E7E-ADDC-A40F3D00D564.jpg	BA2163DA-6E65-4DEA-B48E-E59517514495.jpg
7526	72E33FC9-1E91-4C5A-92C9-5C87D0AC0816.jpg; D44D988E-6C3C-4DDB-B21D-EAFB5310E652.jpg	B798E3CA-F70F-4076-A79D-D78B813BA70B.jpg
7528	9C205D24-1AD4-43C4-BE9D-A537410FC12F.jpg; A1D7C579-8547-4D01-B266-34C1A2AB5C76.jpg	9A71412B-DA36-45CC-B5E4-C86B9170B6EB.jpg
7529	FF17A286-D244-4F37-9DAA-77B960226644.jpg; 4576EC48-5665-4AEF-BB82-167104D6F446.jpg	B2B25843-916A-48C3-9458-25FE4BC5AD88.jpg
7530	C35DE27E-6DCD-44E7-BD65-D37D4C25B372.jpg; 0C607986-65C1-4DBE-8CB2-75D73F5E0DAE.jpg	C7405D49-335D-4DA2-9691-FA5362DFB41A.jpg

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7532	54933148-05F5-4F27-8E57-117E21AC51D8.jpg; 28AA4454-5E1E-4CA4-9C36-0E3B728E7E1E.jpg	EFF1C0E4-71AB-4A38-AB9C-3C0AEB6EA440.jpg
7533	7C7D5A20-5D23-42BF-8D63-0DE53A57B001.jpg; 5C14275F-3DBA-4519-B36C-D87438A80B61.jpg	D339070C-CB9E-4F02-B12F-E7EA1C1A72BF.jpg
7534	4B623832-F2C4-42CA-849F-5CC69A9D6CAB.jpg; 6A3691C0-6895-445D-813B-74ADD35892EF.jpg	3C40069D-5E42-40B5-8378-D99F1E0205D7.jpg
7535	F3C1B350-00B8-4517-BDB7-B5F9650B7F76.jpg; 4D48C721-7140-4759-AC6A-D52DB97AD629.jpg	7802C19B-8207-41BD-884A-5B6666AB92A2.jpg
7536	C900C5A8-3551-4590-83F6-C831A972B535.jpg; 3B5BFD78-73DE-4EF0-9BD8-93ECDB951932.jpg	A66B377D-EBDD-47AD-847C-61B13C463D0F.jpg
7537	46A1C466-C70F-4D19-A860-96AE0E2FB26D.jpg; 99AB7112-2E95-48C5-B5CD-09D0FB0DEC3C.jpg	FF61ED4E-402F-4A9F-9F56-501AF4BF45A2.jpg
7538	445EF718-C1DD-4C86-A920-DAC64122B1D6.jpg; 824E9A8A-2F38-4A80-8782-A522F7FD7AA9.jpg	13BE8218-ABE1-462D-9301-3CE0C8EBC511.jpg
7539	0E8F0747-5310-4CA9-871C-C46AE82A8549.jpg; D0A3AF66-EEFC-47B0-A4DB-0AF071519812.jpg	0B0B1093-456B-4DBE-813F-F3341E1187C7.jpg
7540	861AF970-FF47-4252-9974-AF555A7FDD06.jpg; 90259A24-57B5-45FC-807D-931E9A91A779.jpg	F622666D-6AF0-4CB9-B447-99A3E821C8A2.jpg
7541	7BAE2011-E906-420A-BF39-FA2BDD8C0F1E.jpg; DF25E46A-0EC5-4A04-B73B-09DEC7867A9D.jpg	E3773DC0-6600-4206-9107-CCD9C5388773.jpg
7542	9B5D511A-976E-4E53-B6BD-D0E5943037C8.jpg; ABC0479D-F7BF-4E20-B02D-29C7194F4051.jpg	E34BA92C-C501-4C3E-A42F-86104A27C4B6.jpg
7543	1A8BCA03-D97B-40B9-A4B5-7CB8AE96DDC7.jpg; CE8042AA-1A19-45C2-A050-9AA12276CEE7.jpg	0A1E82EE-69E1-4DD0-84BC-43BA4DF35277.jpg
7544	02AD0C9C-32FE-4C5F-B290-C694EB89504C.jpg; CDCB70A9-DBC0-413D-BFDB-A91A7791D587.jpg	B888E42E-261D-4BE2-B5B5-D360C54B4CF8.jpg
7545	F330A11D-0DD5-49CB-B21A-1CA6F55AD830.jpg; 85FDA7B9-887C-4F0C-B1EE-1B05369E8210.jpg	A4C94568-8CFE-4E22-A172-1DBC84FB7C70.jpg
7546	0B22191F-EB69-4A82-876D-4F5858E68201.jpg; AC65ACF7-D907-4EDD-A47B-F80322B6CDD1.jpg	1C00EA4F-33AB-49F2-849B-50A509C7B93C.jpg
7547	31456EB5-F09E-41F0-A60A-E652D25B94DF.jpg; 104C0E59-CC3E-4A4C-A6DF-AEE3F97D9FD5.jpg	7187DB85-F3BD-4172-B8B5-B476E699C81A.jpg
7548	9E5C433B-9EA6-45EA-B758-A1D9A51D497A.jpg; F4BD77AD-4027-4B7C-8BCF-B5C957068B27.jpg	41550C34-25CF-43BE-85E1-6971049709AF.jpg
7549	3D9DE00F-BBC1-41C5-8D26-684B0AB08186.jpg	4FED6188-4ED8-4A5E-A534-22643312FFB0.jpg
7550	1AFAA9A5-A0F8-4C8C-916D-F98BD1C6581F.jpg; BC78DAD8-F6DD-454E-BA5B-771EE26BF0AA.jpg	875897BB-8F67-4BE0-BA1D-C5D46990ACE0.jpg
7561	E19F5E68-81CE-4917-AE3D-26330DC1C629.jpg; D94609DD-9CD1-4039-A200-8438DECF33D5.jpg	7828259D-8A10-44F0-BE81-2D8E3E74A84B.jpg
7562	CC88BA9D-B3D5-4CDB-AE64-2A3A5286B062.jpg; 0ADD4558-E6E0-415D-A2C5-E658506D1571.jpg	4FC4D56B-20A8-43FA-9040-C1C9DB35224E.jpg
7563	A5D18B1C-8ABD-4F77-9C77-F40D9B9164A8.jpg; 5023BCB7-07BC-41D3-ACA2-8AFBAAA0A86E.jpg	714AFD23-BE03-40A3-A486-13EB0DF43527.jpg
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7565	29E9CC02-C673-4BA1-A10A-CAD5EDC973D7.jpg; 47A87469-BD0A-4163-9342-7DC87F29B723.jpg	073EFB42-8B08-44A6-9156-7B3321C5C090.jpg
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7567	21A78D71-FF40-4B70-B7BE-6B1F3B9B4E79.jpg; 1F61BCFF-40F4-4682-95ED-35BEFF990D89.jpg	76BB6161-493B-4561-A310-1E1C319DC000.jpg
7568	75C0DD50-27E5-4EAD-8FDE-AA73EF8DA733.jpg; B78F8042-563F-473D-BE27-AF41735F501B.jpg	84970AC8-BC88-41BE-AA61-541ECC99B0F2.jpg

Appendix 7: Full stratigraphic register

The following table lists all of the stratigraphic relationships recorded on site, both physical and primary. See Appendix 1 – Context register for primary stratigraphic relationships.

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4051	SEALED BY	4029	SHARP/UNDULATING	
4051	SEALS	4006	DIFFUSE/EVEN	
4052	BUTTS	4006	MERGING/EVEN	
4052	SEALED BY	4018	SHARP/EVEN	
4056	CONTAINED BY	4057		
4056	SEALED BY	4006		
4057	BUTTS	4058		
4057	CONTAINS	4056		
4058	CONTAINS	4057		
4058	BUTTED BY	4052		
4061	SEALED BY	3457		
4061	SEALED BY	3457		
4063	SEALED BY	4061		
4063	SEALS	4054		
4065	SEALED BY	4010		
4065	BUTTS	3721		
4065	CUTS	4066		
4066	BUTTED BY	4010		
4066	SEALED BY	3897		
4066	SEALED BY	3901		
4066	BUTTED BY	4065		
4067	BUTTS	3722		
4067	BUTTS	3861		
4067	BUTTS	3794		
4067	BUTTS	4066		
4067	BUTTS	3793		
4067	SEALED BY	4010		
4068	BUTTS	3722		
4068	SEALED BY	4010		
4068	CONTAINED BY	4067		
4069	SEALED BY	4010		
4069	SEALED BY	4067		
4070	SEALED BY	4010		
4070	BUTTS	3902		
4070	SEALED BY	4019		
4070	BUTTED BY	4067		
4071	BUTTED BY	4069		
4071	BUTTED BY	4074		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4071	SEALED BY	4010		
4071	BUTTED BY	4069		
4072	BUTTED BY	4074		
4072	CONTEMPORARY WITH	4072		
4072	CONTEMPORARY WITH	4071		
4072	SEALED BY	4010		
4072	BUTTED BY	4067		
4073	CONTEMPORARY WITH	4071		
4073	BUTTED BY	7074		
4073	CONTEMPORARY WITH	4072		
4073	BUTTED BY	4067		
4073	SEALED BY	4010		
4073	BUTTED BY	4125		
4074	BUTTS	4073		
4074	BUTTS	4071		
4074	BUTTS	4072		
4074	SEALED BY	4010		
4076	BUTTS	4003		
4076	BUTTED BY	3595		
4078	SEALED BY	4079		
4078	SEALED BY	4091		
4078	SEALED BY	4016		
4078	SEALS	4021		
4078	SEALS	3808		
4078	BUTTS	3981		
4079	SEALED BY	4016		
4079	SEALS	4078		
4080	BUTTS	4077		
4080	SEALED BY	3802		
4081	SEALS	4082		
4081	SEALED BY	4036		
4081	EQUAL TO ?	4013		
4082	SEALED BY	4081		
4083	SAME AS	4098		
4083	SEALED BY	4013		
4084	SEALED BY	4050		
4085	BUTTS	3595		
4085	BUTTS	3593		
4085	SEALED BY	3526		
4086	SEALS	3722		
4086	SEALED BY	3807		
4087	SEALED BY	3887		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4089	SEALS	4090		
4089	SEALED BY	4075		
4089	SEALED BY	3858		
4090	SEALED BY	4089		
4090	SEALS	4096		
4091	BUTTS	4078		
4091	SEALED BY	4079		
4092	SEALED BY	4061		
4092	SEALED BY	3457		
4093	SEALED BY	4076		
4094	SEALED BY	4088		
4095	SEALED BY	4091		
4095	BUTTS	4021		
4095	BUTTS	4078		
4096	BUTTED BY	3526		
4096	BUTTS	3984		
4096	SEALED BY	4085		
4097	BUTTED BY	3800		
4097	SEALED BY	4007		
4098	SEALED BY	4013		
4098	SAME AS / EQUAL TO	4083		
4099	BUTTED BY	4098		
4099	SEALED BY	4100		
4100	SEALED BY	3520		
4100	BUTTS	4099		
4100	SEALS	4099		
4101	SEALED BY	4013		
4101	CONTEMPORARY WITH	4098		
4102	SAME AS	4107		
4102	SEALED BY	4012		
4103	SEALED BY	4106		
4103	BUTTS	3591		
4103	SEALED BY	4105		
4103	BUTTS	3951		
4103	BUTTS	3531		
4103	BUTTS	3879		
4103	SEALED BY	3878		
4104	EQUAL TO	4088		
4104	SEALS	4105		
4104	SEALED BY	3984		
4105	SEALED BY	4104		
4105	BUTTS	3977		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4105	SEALS	4130		
4106	SEALED BY	3837		
4106	SEALED BY	3592		
4106	SEALED BY	3878		
4107	SAME AS	4102		
4107	SEALED BY	4012		
4108	BUTTS	4094		
4108	SEALED BY	4102	MERGING	Even
4108	BUTTS	4094		
4108	SEALED BY	4102		
4109	SEALED BY	3858		
4109	BUTTED BY	4110		
4109	BUTTS	4099		
4110	BUTTS	4096		
4110	BUTTS	4109		
4110	BUTTS	4099		
4110	SEALED BY	3855		
4112	SEALED BY	4012		
4112	BUTTED BY	4098		
4112	SEALED BY	3553		
4113	SEALS	4133		
4113	SEALED BY	4094		
4114	SEALED BY	4036		
4114	SAME AS	4098		
4115	BUTTS	1042		
4115	SEALED BY	4094		
4117	BUTTS	4120		
4117	SEALED BY	3798		
4118	BUTTS	1135		
4118	BUTTS	3576		
4120	BUTTED BY	4117		
4120	BUTTED BY	4119		
4120	CONTEMPORARY WITH	4121		
4120	BUTTED BY	4111		
4120	BUTTS	4121		
4121	CONTEMPORARY WITH	4075		
4121	BUTTED BY	4120		
4121	CONTEMPORARY WITH	4120		
4121	BUTTED BY	3800		
4121	BUTTED BY	4078		
4122	BUTTED BY	4124		
4122	BUTTED BY	4060		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4122	BUTTED BY	4123		
4122	CONTEMPORARY WITH 4123			
4123	SEALED BY	4060		
4123	BUTTED BY	4124		
4123	BUTTS	3722		
4124	SEALED BY	4060		
4124	BUTTS	4057		
4124	BUTTS	4122		
4124	BUTTS	4123		
4125	BUTTS	4073		
4125	BUTTED BY	4105		
4125	BUTTED BY	4126		
4125	CONTEMPORARY WITH	4137		
4125	SEALED BY	41010		
4126	SEALED BY	4010		
4126	BUTTS	4125		
4127	BUTTED BY	4060		
4127	BUTTED BY	4128		
4127	BUTTED BY	4053		
4128	BUTTS	4127		
4128	BUTTS	4129		
4129	BUTTED BY	4060		
4129	BUTTED BY	4128		
4130	BUTTS	4125		
4130	BUTTS	4075		
4130	SEALED BY	4105		
4131	BUTTED BY	4067		
4131	SEALED BY	4010		
4131	BUTTS	4134		
4132	SEALED BY	4013		
4132	BUTTS	1037		
4132	BUTTS	4099		
4132	CONTEMPORARY WITH	4098		
4132	BUTTS	4098		
4133	SEALED BY	4094		
4134	SEALED BY	4012		
4134	BUTTED BY	4098		
4135	BUTTS	4058		
4135	BUTTS	4136		
4135	SEALED BY	4060		
4136	BUTTS	4120		
4136	SEALED BY	4058		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4136	BUTTS	4137		
4136	BUTTED BY	4138		
4137	SEALED BY	4136		
4137	BUTTS	4127		
4137	BUTTED BY	4136		
4137	SEALED BY	4053		
4138	SEALED BY	4139		
4138	SEALS	4140		
4138	BUTTS	4125		
4139	BUTTS	4078		
4139	SEALS	4138		
4139	SEALED BY	4126		
4140	SEALED BY	4138		
4140	CUT BY	4141		
4140	BUTTS	4073		
4141	CONTAINS	4142		
4141	CUTS	4140		
4142	SEALED BY	4140		
4142	CONTAINED BY	4141		
4142	BUTTS	4143		
4143	BUTTED BY	4142		
4143	BUTTS	4073		
5000	SEALS	5005		
5000	SEALS	5002	MERGING	Diffuse
5000	SEALS	5001	SHARP	Even
5001	SEALED BY	5000	SHARP	Even
5002	SEALED BY	5000	MERGING	Even
5003	SEALS	5001	SHARP	Even
5003	SEALED BY	5000	MERGING	UNDULATIN G
5004	SEALED BY	5002		
5004	SEALS	5001		
5005	SEALED BY	5000	MERGING & UNDULATING	Diffuse
5005	SEALS	5003	MERGING	Diffuse
5006	BUTTS	5001		
5006	SEALED BY	5003		
5006	SEALED BY	5003		
5006	BUTTS	5001		
5008	BUTTS	5001	SHARP / UNDULATING	
5008	SEALED BY	5000	SHARP/EVEN	
5009	BUTTS	5001		
5009	SEALED BY	5006	UNDULATING	Diffuse
5010	SEALED BY	5004	DIFFUSE	

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
5010	BUTTS	5001		
5010				
5011	SEALED BY	5009		
5011	BUTTS	5001		
5012	SEALED BY	5010		
5012	SEALED BY	5013		
5012	BUTTS	5001		
5013	SEALS	5012		
5013	SEALED BY	5010		
5016	SEALED BY	5001		

Appendix 8: List of samples

SF	Context	Sample Type	Description
7052	4052	SPOT	possible floor surface next to furnace
7053	4006	SPOT	for dating
7054	4056	BULK	dating, furnace contents
7055	4010	BULK	animal bone for dating
7056	4061	BULK	Btw flags in blocked cell in Structure 5, dating, 2 bags
7057	4010	SPOT	charcoal for dating
7058	4010	BULK	Animal bone for dating
7059	4060	BULK	midden for dating near furnace
7060	4064	SPOT	concentration of shells
7061	6013	BULK	Midden for dating
7063	5009	BULK	midden for dating
7064	5009	BULK	midden
7065	3702	SPOT	ash around hearth for dating and charred remains identification
7066	4052	SPOT	charcoal for dating
7067	4034	BULK	hearth in structure 5
7068	4013	BULK	structure 5 floor level
7069	4012	BULK	ash floor
7070	5012	BULK	midden material
7071	4013	SPOT	concentration of fish bone
7072	4013	BLOCK	Kubiena tin, floor surface in structure 5, see drawing 136
7311	4013	BLOCK	Kubiena tin, floor surface in structure 5, see drawing 136
7312	6006	BULK	concentration of animal bone, 1 bag, 1 tray
7313	5009	BULK	midden material
7314	5009	BULK	midden material
7315	4012	BLOCK	East of hearth floor surface in structure 5, Kubiena, see drawing 136
7316	4012	BLOCK	North of hearth floor surface in structure 5, Kubiena, see drawing 136
7317	4012	BLOCK	West of hearth floor surface in structure 5, Kubiena, see drawing 136
7318	4087	BULK	surface under hearth, carbon-rich and ashy
7319	4089	SPOT	charcoal for dating
7320	4091	BULK	concentration of charcoal and possible metalworking debris
7321	3911	BULK	ash deposit at bottom of oven in structure 5
7322	6006	SPOT	concentration of limpet shells
7323	4013	BULK	floor surface structure 5 environmental remains
7324	4013	BULK	floor surface structure 5 environmental remains
7325	4013	BLOCK	floor surface from structure 5, see drawing 136
7326	4013	BLOCK	floor surface from structure 5, see drawing 136
7327	4087	BLOCK	floor surface from structure 5, see drawing 136
7328	4012	BLOCK	floor surface from structure 5, see drawing 136
7329	4077	SPOT	gravel hearth, determine nature of gravel
7330	4012	BULK	floor surface in structure 5
7331	4111	SPOT	Spot sample- coal and burnt material

SF	Context	Sample Type	Description
7332	4103	SPOT	animal bone group, 3 bags - 2 bags soil, 1 small bag ABG
7333	6025	SPOT	Shell midden beneath wall
7334	3632	BULK	contents of an ash box
7335	3800	BULK	Hearth deposit - charcoal, from end of passageway
7336	4067	BLOCK	Floor surface from structure 6 Kubiena, see drawing 140
7337	4067	BLOCK	Floor surface from structure 6 Kubiena, see drawing 140
7338	4067	BLOCK	Floor surface from structure 6 Kubiena, see drawing 140
7339	4067	BLOCK	Floor surface from structure 6 Kubiena, see drawing 140
7340	4067	BLOCK	Floor surface from structure 6 Kubiena, see drawing 140
7491	4094	ARCHAEOMAG	hearth
7492	4067	BLOCK	Floor surface from structure 6 Kubiena, see drawing 140
7493	40124013	BULK	Carbonised remains of plant fuels, dating
7494	40124013	BLOCK	floor surface from block in structure 5, Kubiena, see drawing 136
7495	40124013	BLOCK	floor surface from block in structure 5, Kubiena, see drawing 136
7496	4067	BLOCK	Floor surface from structure 6 Kubiena, see drawing 140
7497	4067	BLOCK	Floor surface from structure 6 Kubiena, see drawing 140
7498	3800	BULK	Spill from south of hearth at end of passageway
7499	4126	BULK	floor surface in structure 6, see drawing 140
7500	4067	BULK	floor surface in structure 6, see drawing 140
7501	4067	BULK	floor surface in structure 6, see drawing 140
7502	4067	BULK	Floor surface in structure 6, see drawing 140
7503	4067	SPOT	Next to whale bone, high mag sus readings, see drawing 140
7504	4067	BULK	floor surface in structure 6, 2 bags, see drawing 140
7505	4067	BULK	Floor surface in structure 6, see drawing 140
7506	4060	BULK	ashy layer near furnace, see drawing 140
7551	4060	BULK	furnace room, ash layer, see drawing 140
7552	4067	BULK	floor surface structure 6, see drawing 140
7553	4012	SPOT	cupboard contents in structure 6, 2 bags
7554	4067	BULK	Floor surface in structure 6, see drawing 140
7555	4087	BULK	deposits under hearth stone in structure 5
7556	4126	SPOT	shell beach deposit
7557	4142	SPOT	posthole from whale bone

Appendix 9: 3D co-ordinates

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7077	00187	337583.4499	1029656.2964	2.6528
SF7078	00196	337584.6746	1029654.1423	2.6374
SF7131	00197	337582.5021	1029658.6103	2.5844
LHDRGVOID	00226	337566.5273	1029637.2511	4.1004
LHDRGVOID	00227	337564.5383	1029638.8477	4.0885
LHDRG002	00229	337566.5742	1029637.2270	4.4011
LHDRG002	00230	337564.4844	1029638.9166	4.4059
LHDRG001	00231	337567.3034	1029643.4280	3.9148
LHDRG001	00232	337572.1782	1029649.5344	3.7955
LHDRG003	00233	337565.4155	1029641.3364	4.3313
LHDRG003	00234	337569.1279	1029638.5166	4.2180
LHDRG005	00235	337564.1005	1029638.2750	4.3404
LHDRG005	00236	337565.9734	1029636.5790	4.3167
LHDRG004	00237	337569.8436	1029639.1521	4.2053
LHDRG004	00238	337566.1619	1029642.1787	4.2324
LHDRG006	00239	337566.8810	1029642.0057	4.1487
LHDRG006	00240	337565.7496	1029640.6738	4.1395
SF7083	00242	337586.3007	1029654.7869	2.7533
LHDRG007	00257	337579.5311	1029647.5496	3.0324
LHDRG007	00258	337578.3203	1029649.3369	3.0184
LHDRG004	00259	337569.8001	1029639.2483	4.1665
LHDRG004	00260	337566.2043	1029642.1875	4.2313
LHDRG008	00442	337574.9403	1029652.0259	3.4323
LHDRG008	00443	337577.0167	1029649.8636	3.3725
SF7095	00744	337534.4010	1029651.3022	2.7249
SF7088	00745	337526.1544	1029655.4158	3.0846
SF7089	00746	337525.8109	1029656.0886	3.1258
SF7087	00747	337526.4387	1029656.1343	3.2209
SF7092	00748	337526.1579	1029656.9328	3.3829
SF7093	00749	337526.2693	1029656.9496	3.4486
SF7085	00750	337528.2318	1029657.1207	3.4576
SF7096	00751	337527.0227	1029656.6379	3.5020
SF7086	00753	337526.9606	1029660.7531	4.0404
SF7150	00754	337583.1650	1029654.4611	2.5383
SF7090	00755	337583.9829	1029654.7029	2.5234
SF7091	00756	337584.0835	1029655.3323	2.5033
SF7097	00758	337526.1339	1029657.9981	3.4199
SF7098	00759	337526.0317	1029657.8957	3.3630
SF7053	00760	337525.9336	1029657.8035	3.4220
SF7100	00904	337533.3803	1029656.1956	3.0544
SF7099	00905	337531.5253	1029659.0723	3.3195

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7094	00906	337530.6943	1029651.6711	2.9121
SF7084	00907	337529.4063	1029656.9349	3.6487
SF7151	00926	337525.6443	1029658.2280	3.3268
SF7102	00928	337534.5227	1029654.4839	3.0354
SF7101	00929	337533.7028	1029654.8583	2.9489
SF7161	00931	337583.8029	1029655.2001	2.4269
SF7162	00932	337583.9533	1029655.3339	2.4484
SF7163	00933	337584.1263	1029655.3282	2.4478
SF7180	00934	337580.2901	1029659.5034	2.5171
DRG13101	00935	337526.3020	1029657.9241	3.5076
DRG13102	00936	337526.2028	1029658.0227	3.4386
DRG13103	00937	337526.0213	1029658.0896	3.4841
DRG13104	00938	337525.8528	1029658.1120	3.4153
DRG13105	00939	337525.8147	1029658.0666	3.4279
DRG13106	00940	337525.7012	1029657.9326	3.5176
DRG13107	00941	337525.7578	1029657.7518	3.5633
DRG13108	00942	337525.7716	1029657.6055	3.4957
DRG13109	00943	337526.0264	1029657.5926	3.4825
DRG13110	00944	337526.1481	1029657.5155	3.3008
DRG13111	00945	337526.1595	1029657.6763	3.3756
DRG13112	00946	337526.0025	1029657.7084	3.3850
DRG13113	00947	337526.0768	1029657.7663	3.3733
DRG13114	00948	337525.9478	1029657.8136	3.3868
DRG13115	00949	337526.0350	1029657.8492	3.3543
DRG13116	00950	337525.9725	1029657.9993	3.2836
DRG13117	00951	337526.0527	1029657.9985	3.3147
DRG13118	00952	337526.1071	1029657.8625	3.3195
DRG13119	00953	337526.1981	1029657.7183	3.1776
DRG13120	00954	337526.2773	1029657.7933	3.1521
SF7183	00955	337534.5328	1029653.2844	3.2240
SF7182	00956	337534.4792	1029653.9267	3.3572
SF7107	00959	337527.2257	1029656.5803	3.5129
SF7104	00960	337527.5027	1029657.3918	3.4678
SF7105	00961	337527.5863	1029657.4405	3.4705
SF7112	00962	337527.8889	1029657.2203	3.4654
SF7111	00963	337528.0332	1029657.4331	3.4625
SF7110	00964	337528.2452	1029657.3175	3.4217
SF7109	00965	337528.2061	1029656.9895	3.4249
SF7108	00966	337528.4842	1029656.5455	3.4290
SF7106	00969	337529.2728	1029658.1988	3.3117
SF7184	00970	337537.2564	1029653.7497	4.0273
DRG131	00971	337525.2918	1029656.9839	4.0108
DRG131	00972	337527.5084	1029659.1352	3.9995

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7115	00984	337528.9236	1029658.6781	3.2912
SF7113	00985	337528.2186	1029657.1431	3.4401
SF7114	00986	337528.2226	1029657.2818	3.4417
SF7116	00987	337528.1049	1029657.1099	3.4255
SF7117	00988	337527.9060	1029656.9670	3.5235
SF7118	01023	337528.9593	1029657.9238	3.2529
SF7125	01024	337528.7183	1029658.0681	3.1973
SF7123	01025	337524.9475	1029657.2814	3.2884
SF7124	01026	337524.5948	1029657.4902	3.2565
SF7119	01027	337524.7568	1029657.5745	3.2613
SF7122	01028	337524.5838	1029657.9024	3.2217
SF7059	01029	337525.5430	1029659.3399	3.4227
SF7159	01030			
SF7127	01071	337528.2353	1029657.1208	3.4431
SF7185	01088	337534.1835	1029653.4433	3.2775
SF7120	01119	337525.3912	1029657.9302	3.3058
SF7121	01120	337528.3497	1029659.4802	3.2088
SF7129	01122	337528.4608	1029659.3024	3.2373
SF7128	01123	337528.6838	1029658.6307	3.2870
SF7126	01124	337529.6344	1029658.9124	3.2157
SF7164	01125	337530.0999	1029659.5032	3.2412
SF7132	01129	337530.0433	1029660.8924	3.2764
SF7133	01130	337529.1014	1029660.6202	3.2307
SF7130	01131	337528.4831	1029660.3312	3.2038
SF7134	01132	337527.9590	1029655.6117	3.3013
SF7135	01133	337532.5718	1029650.9078	3.1292
SF7138	01134	337526.9346	1029653.6801	2.9118
SF7165	01135	337533.5522	1029658.4428	3.2686
SF7167	01136	337533.2372	1029655.8516	3.0100
SF7166	01137	337532.2152	1029655.7483	3.0381
SF7139	01139	337524.9780	1029656.4311	3.0893
SF7136	01140	337529.7942	1029655.8450	3.3480
SF7192	01153	337583.3481	1029654.0164	2.4815
SF7189	01154	337583.0391	1029654.2176	2.4754
SF7188	01155	337583.0577	1029654.5741	2.4609
SF7190	01156	337583.8183	1029654.5878	2.4496
SF7191	01157	337584.3843	1029655.0103	2.4272
SF7193	01158	337578.3628	1029660.7087	2.5157
SF7195	01163	337548.6291	1029630.7344	2.0398
SF7196	01164	337548.8661	1029630.7816	2.0606
SF7197	01165	337549.1010	1029630.6911	2.0473
SF7198	01166	337549.1921	1029630.5056	2.0739
SF7194	01167	337549.6973	1029630.2625	2.2233

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7201	01172	337526.2717	1029658.9299	3.3856
SF7202	01173	337534.4186	1029654.4674	3.0099
SF7200	01176	337533.5758	1029654.9484	2.9348
SF7199	01177	337532.9373	1029654.6012	3.0057
SF7145	01182	337548.7786	1029633.9491	3.1214
SF7146	01183	337549.2002	1029632.9758	3.0230
SF7140	01184	337549.5501	1029632.6016	2.6715
SF7141	01185	337549.4336	1029632.6065	2.5206
SF7143	01186	337549.3708	1029632.3822	2.3279
SF7147	01187	337549.7795	1029632.3205	3.0179
SF7148	01188	337550.0392	1029632.1044	3.0641
SF7149	01189	337550.3112	1029631.9256	3.0114
SF7152	01190	337550.2411	1029631.7715	2.7771
SF7156	01191	337550.3394	1029631.5936	2.8594
SF7153	01192	337550.1099	1029631.7668	2.6249
SF7154	01193	337550.0706	1029631.7992	2.5363
SF7155	01194	337549.8004	1029631.7412	2.3999
SF7142	01195	337549.5840	1029632.3735	2.3906
SF7144	01196	337549.6040	1029632.5119	2.3980
SF7157	01197	337551.0471	1029630.0433	2.7796
SF7158	01198	337550.0837	1029631.8075	2.5341
SF7206	01199	337532.0941	1029658.1797	3.0373
SF7205	01200	337532.0669	1029658.0639	3.0107
SF7204	01201	337531.0899	1029657.2042	2.9438
SF7203	01202	337531.1173	1029657.1633	2.9385
SF7207	01203	337532.1560	1029656.7103	3.0167
SF7208	01204	337532.5214	1029656.5774	3.0335
SF7209	01205	337532.4649	1029656.4113	3.0307
SF7210	01206	337532.5697	1029656.5246	3.0454
SF7160	01207	337550.2770	1029631.6182	2.5177
SF7168	01208	337550.9513	1029629.7405	2.3968
SF7169	01209	337550.3492	1029631.1565	2.5294
SF7170	01210	337550.2698	1029631.1901	2.3112
SF7213	01211	337531.0742	1029657.1456	2.9625
SF7211	01212	337531.0570	1029656.9791	2.9530
SF7212	01213	337531.0175	1029656.9047	2.9729
SF7264	01214	337528.5864	1029656.3125	3.3538
SF7220	01224	337579.1023	1029660.2981	2.3678
SF7219	01225	337584.9659	1029653.9601	2.3741
SF7218	01226	337584.8809	1029654.0127	2.3759
SF7172	01230	337550.1924	1029631.8604	2.6669
SF7173	01231	337550.2615	1029631.7311	2.7560
SF7171	01232	337550.1671	1029631.6116	2.2629

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7295	01234	337532.7942	1029655.3875	2.9320
SF7294	01235	337533.3796	1029655.7575	2.8891
SF7292	01236	337531.0501	1029657.1671	2.9507
SF7293	01237	337531.6082	1029656.9367	2.9435
SF7174	01240	337532.4135	1029655.3054	2.9651
SF7176	01241	337532.5136	1029654.6021	2.9514
SF7177	01242	337532.6339	1029654.5693	2.9360
SF7175	01244	337532.9450	1029658.0206	3.1136
SF7178	01245	337532.7329	1029654.5999	2.9381
SF7179	01258	337534.5313	1029655.4042	2.9454
DRG134	01278	337534.9918	1029656.9407	3.8318
DRG134	01279	337530.7476	1029654.3340	3.8641
SF7263	01307	337526.5787	1029658.1778	3.3423
SF7223	01325	337532.3667	1029656.9593	3.0672
SF7226	01326	337532.7861	1029657.3213	3.1030
SF7224	01327	337532.4612	1029657.6744	3.1133
SF7227	01328	337533.0545	1029657.7345	3.0956
SF7221	01329	337533.6311	1029657.7964	3.1826
SF7222	01330	337533.5269	1029657.7016	3.1786
SF7225	01331	337533.4924	1029657.0418	3.1078
SF7232	01345	337533.3148	1029656.9213	3.1058
SF7231	01346	337533.2462	1029657.4748	3.0992
SF7228	01347	337533.1302	1029657.8360	3.0978
SF7238	01348	337532.7820	1029657.4546	3.0693
SF7230	01349	337532.6514	1029657.6360	3.0851
SF7234	01350	337532.6143	1029657.7324	3.0799
SF7237	01351	337532.7805	1029657.3010	3.0783
SF7236	01352	337532.6351	1029657.0778	3.0754
SF7229	01353	337532.3853	1029657.4684	3.0583
SF7235	01354	337532.4447	1029657.1680	3.0594
SF7233	01355	337532.5276	1029657.4101	3.0664
SF7239	01356	337532.5729	1029657.4066	3.0461
SF7353	01359	337531.8853	1029654.0837	3.2754
SF7394	01360	337548.7571	1029632.0413	1.9852
SF7395	01361	337548.5307	1029632.0123	1.9795
SF7402	01362	337548.4932	1029631.6834	1.9948
SF7403	01363	337548.3355	1029631.4514	2.0216
SF7401	01364	337548.7928	1029631.6487	2.0328
SF7401	01365			
SF7398	01366	337549.0078	1029631.5113	1.9603
SF7397	01367	337549.2680	1029631.3766	2.0534
SF7400	01368	337548.8723	1029631.0913	2.0075
SF7399	01369	337549.5465	1029630.5169	2.0622

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7396	01370	337549.6764	1029630.2861	2.1618
SF7404	01371	337547.8966	1029631.9634	2.1482
SF7242	01379	337532.8695	1029657.6202	3.0994
SF7241	01380	337532.8494	1029657.7805	3.0991
SF7240	01381	337532.6732	1029657.8379	3.0855
SF7245	01382	337532.4653	1029657.7563	3.0599
SF7256	01383	337532.4942	1029657.1867	3.0482
SF7254	01384	337532.4545	1029656.7786	3.0533
SF7407	01397	337531.0020	1029655.5726	3.3375
SF7409	01398	337529.8930	1029656.2417	3.4240
SF7410	01399	337529.7972	1029655.8219	3.3537
SF7411	01400	337529.8808	1029656.0306	3.3340
SF7243	01401	337527.6958	1029656.2545	3.4093
SF7244	01402	337533.5993	1029658.2563	3.2864
SF7246	01403	337533.3393	1029656.2928	3.0812
SF7408	01404	337527.5132	1029656.5054	3.4078
SF7412	01405	337527.3208	1029656.6612	3.4259
SF7413	01406	337527.2616	1029656.7240	3.4212
SF7247	01407	337533.7228	1029658.2886	3.2888
SF7414	01409	337527.5147	1029656.5674	3.4302
SF7354	01411	337549.1324	1029631.6449	1.9407
SF7355	01412	337549.0602	1029631.8098	1.9747
SF7356	01413	337548.9582	1029631.7018	1.9434
SF7405	01414	337548.8620	1029631.6735	1.9732
SF7406	01415	337549.5702	1029630.5104	2.0542
SF7357	01416	337549.7442	1029630.4382	2.0178
SF7415	01418	337527.6528	1029656.9817	3.4178
SF7416	01422	337527.5224	1029657.0736	3.4370
SF7417	01423	337527.5319	1029657.1657	3.4304
SF7418	01424	337527.0523	1029656.5791	3.3966
SF7248	01425	337533.6750	1029658.5795	3.2770
SF7260	01426	337533.5865	1029657.1148	3.1201
SF7257	01427	337531.8642	1029655.5759	2.9021
SF7249	01428	337531.7648	1029655.4432	2.9043
SF7358	01429	337548.9211	1029631.6948	1.9031
SF7359	01430	337549.0992	1029631.6707	1.8923
SF7360	01431	337549.0313	1029631.8059	1.8882
SF7361	01432	337549.7742	1029630.8177	2.0090
SF7362	01433	337549.1485	1029631.8478	1.9028
SF7363	01434	337549.1607	1029631.5107	1.8878
SF7262	01441	337533.5647	1029656.7474	3.0883
SF7251	01442	337533.1142	1029656.4672	3.0468
SF7253	01443	337533.3363	1029656.4073	3.0606

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7250	01444	337532.1272	1029655.6727	2.9225
SF7261	01445	337532.4337	1029655.8728	2.9269
SF7420	01446	337529.7137	1029655.7376	3.2782
SF7421	01447	337528.0676	1029657.3452	3.3745
SF7364	01448	337549.9286	1029630.2991	2.0912
SF7258	01449	337533.4062	1029656.6212	3.0785
SF7255	01450	337533.2924	1029656.2690	3.0496
SF7259	01451	337532.0026	1029655.6744	2.9015
SF7422	01454	337532.8854	1029657.6482	3.1047
SF7421	01455	337533.3891	1029657.4718	3.1112
SF7252	01456	337532.8171	1029655.8349	2.9074
SF7314	01463	337583.7446	1029654.3749	2.3455
SF7265	01464	337583.4410	1029653.2542	2.3535
SF7313	01465	337584.2039	1029653.9653	2.3190
SF7365	01473	337549.4445	1029630.5420	1.9309
SF7366	01474	337549.5628	1029630.5436	1.8896
DRG13501	01475	337530.2794	1029656.5372	4.0327
DRG13502	01476	337527.5176	1029654.7733	4.0003
SF7301	01481	337533.0697	1029657.6489	3.0832
SF7304	01482	337532.7734	1029657.6049	3.0637
SF7302	01483	337532.6952	1029657.8874	3.0660
SF7297	01484	337532.4468	1029658.0585	3.0785
SF7299	01485	337532.4018	1029657.8281	3.0665
SF7300	01486	337532.1790	1029657.9438	3.0131
SF7309	01487	337532.3365	1029657.4365	3.0313
SF7298	01488	337532.1748	1029656.9520	3.0138
SF7296	01489	337532.4223	1029656.7494	3.0293
SF7303	01490	337531.9583	1029657.7027	2.9931
SF7341	01491	337531.8067	1029657.4807	2.9667
SF7305	01492	337531.5106	1029658.1323	2.9764
SF7310	01493	337531.3461	1029657.9728	2.9661
SF7424	01500	337549.2612	1029630.8588	1.7042
SF7425	01501	337547.3880	1029633.7206	2.1381
SF7307	01502	337532.1561	1029656.8012	3.0076
SF7308	01503	337532.0124	1029656.8872	3.0122
SF7423	01506	337527.7011	1029656.6183	3.4336
SF7306	01508	337531.8210	1029656.9257	2.9779
SF7346	01509	337531.7236	1029657.0269	2.9551
SF7427	01528	337530.0260	1029656.8882	3.8766
SF7426	01556	337529.1667	1029654.6066	3.2593
SF7431	01557	337531.0424	1029655.9875	2.9264
SF7432	01558	337531.0200	1029655.9627	2.9293
DRG137_01	01631	337609.1112	1029695.6374	5.4173

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
DRG137_02	01632	337605.4839	1029702.7453	5.6555
DRG137_03	01633	337604.7047	1029700.8931	5.4173
DRG137_04	01634	337604.4789	1029699.6751	5.4018
DRG137_05	01635	337605.3327	1029698.1878	5.3654
DRG137_06	01636	337606.7989	1029697.3219	5.4285
DRG137_07	01637	337608.3139	1029696.8069	5.4802
DRG137_08	01638	337610.7377	1029697.7663	5.7328
DRG137_09	01639	337613.2749	1029698.6203	5.8831
DRG137_10	01640	337612.7771	1029701.2158	6.0488
DRG137_11	01641	337611.7365	1029703.6504	6.0917
DRG137_12	01642	337610.0801	1029704.9578	6.0443
DRG137_13	01643	337607.3497	1029704.0724	5.8377
DRG137_14	01644	337605.3552	1029702.7077	5.6297
DRG137_15	01645	337604.7327	1029701.5104	5.5000
SF7433	01650	337529.1918	1029657.5324	3.2866
SF7342	01652	337582.0166	1029657.0108	2.4947
SF7439	01654	337529.1285	1029657.8256	3.2425
SF7446	01655	337529.5784	1029657.7197	3.2533
SF7436	01656	337529.4810	1029657.2481	3.2607
SF7429	01657	337529.3336	1029656.7649	3.5108
SF7435	01658	337529.9399	1029656.8006	3.7417
SF7428	01659	337529.7125	1029656.6611	3.6321
SF7437	01660	337529.8124	1029656.1273	3.3196
SF7279	01661	337531.8984	1029656.5774	2.9285
SF7343	01662	337533.0500	1029656.8873	3.0378
SF7434	01663	337529.9191	1029654.5704	3.1810
SF7438	01664	337530.2987	1029653.8263	3.1496
SF7441	01675	337530.1269	1029657.8270	3.0978
SF7280	01676	337531.9391	1029656.8821	2.9679
SF7344	01677	337533.2764	1029657.4457	3.0657
SF7345	01678	337533.1315	1029657.4619	3.0727
SF7442	01679	337531.5793	1029653.7514	3.1840
SF7443	01680	337529.6582	1029656.5573	3.5579
SF7445	01682	337527.5339	1029656.7556	3.3596
SF7444	01683	337527.6490	1029656.5986	3.3387
DRG138_01	01685	337535.2029	1029656.3216	3.5956
DRG138_02	01686	337531.1443	1029655.6803	3.5703
SF7347	01687	337530.3385	1029658.4127	3.1992
SF7351	01688	337530.5897	1029660.0738	3.2270
SF7446	01689	337527.9149	1029656.2544	3.2984
SF7367	01690	337530.1225	1029653.8348	3.1300
SF7368	01691	337530.3687	1029653.8715	3.1287
SF7369	01692	337526.6448	1029655.7591	3.2110

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7447	01693	337530.3272	1029653.9054	3.1035
SF7352	01694	337530.1017	1029658.8429	3.1896
SF7377	01695	337528.8916	1029660.5535	3.1880
SF7349	01696	337528.9317	1029659.3314	3.1780
SF7287	01699	337550.8954	1029630.7503	2.9380
SF7283	01700	337550.0451	1029631.9974	2.5258
SF7286	01701	337549.9976	1029631.9989	2.5076
SF7285	01702	337550.1930	1029631.5978	2.4546
SF7282	01703	337550.1472	1029631.8177	2.6781
SF7281	01704	337550.1864	1029631.7754	2.6744
SF7284	01705	337550.1002	1029631.9089	2.7613
SF7278	01706	337549.9409	1029631.4138	2.7252
SF7460	01707	337550.5864	1029630.9118	2.7235
SF7288	01708	337548.6175	1029632.7145	2.2000
SF7350	01710	337550.0238	1029629.9640	2.3061
SF7481	01711	337548.3373	1029633.2214	2.6791
SF7348	01712	337526.8955	1029653.5216	2.7860
SF7371	01713	337527.8610	1029655.6284	3.2677
SF7370	01714	337528.0859	1029655.7404	3.2837
SF7375	01715	337528.2248	1029655.8834	3.3026
SF7374	01716	337528.7993	1029656.1275	3.3028
SF7376	01717	337528.7204	1029656.0485	3.3259
DRG141_1	01718	337530.8986	1029655.8664	4.2015
DRG141_2	01719	337530.8911	1029660.1926	4.1598
SF7451	01720	337528.7652	1029656.0777	3.3140
SF7372	01721	337528.8641	1029656.1224	3.2893
SF7452	01723	337529.5769	1029656.5353	3.5284
DRG142_1	01724	337527.2629	1029655.4185	3.8453
DRG142_2	01725	337530.5176	1029657.9512	3.8942
SF7467	01726	337547.5745	1029633.4006	2.0119
SF7453	01727	337528.5671	1029656.1426	3.2610
SF7373	01735	337528.5090	1029658.3181	3.1754
DRG144_01	01737	337535.0622	1029656.8038	3.4471
DRG144_02	01738	337531.0039	1029656.1867	3.4262
SF7459	01741	337533.0827	1029656.2630	3.0170
SF7461	01742	337533.0091	1029656.3462	2.9972
SF7462	01743	337532.9653	1029656.2757	3.0035
SF7463	01744	337533.1802	1029656.2441	3.0016
SF7464	01745	337532.8277	1029656.2491	2.9591
SF7458	01750	337580.9224	1029657.6781	2.3080
SF7457	01751	337582.1981	1029656.8311	2.3939
SF7514	01755	337527.9747	1029655.2353	3.2805
SF7465	01764	337529.2677	1029653.9168	3.1280

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7468	01766	337526.6542	1029656.4393	3.2713
SF7471	01769	337530.5335	1029660.2619	3.1905
SF7469	01770	337529.5289	1029659.1651	3.1923
SF7472	01771	337530.1723	1029659.0982	3.2559
SF7470	01772	337530.4901	1029658.4105	3.1963
SF7473	01774	337530.1625	1029660.4922	3.1765
SF7474	01775	337530.0692	1029660.4841	3.1923
SF7476	01776	337530.5279	1029659.3144	3.1987
SF7477	01777	337529.8518	1029659.0518	3.2084
SF7480	01778	337529.5947	1029659.0888	3.1878
SF7479	01779	337529.6981	1029659.2514	3.1873
SF7478	01780	337529.8617	1029660.6637	3.1869
SF7475	01783	337529.3860	1029659.6691	3.1663
SF7528	01785	337580.8184	1029657.7421	2.2728
DRG143_1	01787	337530.6985	1029661.1879	4.1644
DRG143_2	01788	337530.5440	1029656.5554	4.2179
SF7515	01793	337528.5190	1029659.0679	3.1975
SF7518	01795	337526.2173	1029657.3528	3.2190
SF7531	01796	337526.2747	1029657.3785	3.2183
SF7519	01797	337526.2319	1029657.4372	3.2012
SF7530	01800	337527.6858	1029659.3197	3.1609
SF7516	01801	337527.7855	1029660.5534	3.1951
SF7517	01802	337527.9695	1029660.2519	3.1682
SF7529	01803	337529.9043	1029658.8587	3.1944
SF7520	01804	337532.2961	1029657.3656	2.9874
SF7533	01805	337532.2226	1029657.2574	2.9586
SF7532	01806	337532.6827	1029657.4179	3.0159
SF7536	01809	337529.6465	1029660.0120	3.1200
SF7540	01810	337528.2778	1029660.6728	3.1946
SF7539	01811	337528.0208	1029660.5136	3.1822
SF7538	01812	337527.9857	1029660.5111	3.2089
SF7535	01813	337527.6086	1029659.5495	3.1384
SF7534	01814	337527.7365	1029658.4126	3.1647
DRG147_01	01815	337528.5217	1029658.3105	3.1422
DRG147_02	01816	337529.9055	1029658.8587	3.1944
SF7547	01818	337526.2473	1029657.3202	3.2290
SF7548	01819	337526.2883	1029657.2968	3.2470
SF7550	01820	337528.5076	1029658.3122	3.1485
SF7549	01821	337527.9302	1029658.4361	3.1732
SF7561	01823	337527.6639	1029658.3311	3.2312
SF7562	01824	337527.8987	1029658.1530	3.1442
SF7563	01825	337527.8631	1029658.2881	3.1468
SF7564	01826	337527.9819	1029658.0993	3.1438

SF No / Point ID	EDM no	X (East)	Y (North)	Z (Height)
SF7565	01827	337528.0195	1029657.9898	3.1175
SF7566	01828	337528.3410	1029658.0052	3.0618
SF7567	01829	337528.2394	1029658.1396	3.0586
SF7568	01830	337528.5373	1029658.5012	2.9715