

# HOLME CULTRAM ABBEY (GHTL15 HCA-B)



## A FINAL REPORT ON ARCHAEOLOGICAL EXCAVATIONS AT HOLME CULTRAM ABBEY SEASON 2015 NGR: NY1774 5075

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The report was compiled by Mark Graham and Joanne Stamper of Grampus Heritage and Training Ltd, Patricia Shaw, environmentalist, and Jan Walker. Mark Graham undertook the geophysical surveys and report and Joanne Stamper must be thanked for coordinating personnel and finds, particularly post excavation work.

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## SUMMARY

This report covers the third main season of excavation within the Hidden Heritage project. It seeks, as part of the Solway Wetlands Landscape Partnership Scheme, to add to the knowledge of the landscape heritage surrounding the peat bogs of the Solway Plain Area of Outstanding Natural Beauty (AONB). The area considered takes in the North West corner of Cumbria. This is a partnership project formed of the Solway Coast AONB, Natural England, the Environment Agency, RSPB, Cumbria Wildlife Trust, West Cumbria Tourism, Tullie House Museum and Art Gallery Trust, and the Diocese of Carlisle on the Steering Group. It is hosted by Allerdale Borough Council and funded by the Heritage Lottery Fund.

This project concentrates the heritage research on the Medieval period, to enable us to extend our knowledge of the significant impact the Cistercian monks began by establishing the Abbey of Holme Cultram in 1150. The research achieved during the Hidden Heritage Project, sought to increase our understanding of the influence the Cistercian monks had on the Solway Plain landscape, by investigating the Abbey, as well as the associated industry, granges and chapels. Achieved by engaging local volunteers and members of the West Cumbria Archaeological Society (WCAS), several of whom are trained archaeologists, as well as trained staff from Grampus Heritage and Training Limited, the aim was to provide training to support volunteers, with a view to engaging local people in the required roles. This report deals with the excavation at Holme Cultram Abbey in the summer of 2015.

The 2015 excavation season opened two trenches to the south of the church. Trench 1 located the east range of the cloister and a building within the east range interpreted as the chapter house. Demolition and stone robbing in the east range post-dissolution was incredibly thorough, leaving only one small portion of wall foundation. All other wall lines were identified through foundation and robber cuts into clay which had been backfilled with demolition rubble. The trench enabled us to confirm the position of the east range running south at 90 degrees to the abbey church. Several fragments of decorated floor tile were recovered along with lead or pewter tokens, a pewter pilgrim badge and coins. Other small finds included book and clothing clasps. Evidence of disturbed burials was found in the east cloister walk with two undisturbed medieval grave slabs in the south east corner of the cloister.

Trench 2 focused on the further investigation of a building first identified in 2014. During 2015 we uncovered the two water culverts supplying a large cistern to the north of a building to the south west of the main cloister garth. The area of building excavated consisted of two rooms, subdivided by a stone partition foundation most likely for a timber or wattle wall. The northern room had a latrine and fireplace with the southern room dominated by a central cooking hearth. On further excavation it became clear that the building location had earlier been used as a pond for water management and/or a site for material extraction (sand/clay) during one of the construction phases at the monastery.

## **1. INTRODUCTION**

### **1.1 CIRCUMSTANCES OF THE PROJECT**

1.1.1 Allerdale, a non-metropolitan district of Cumbria, England, has borough status. To the north west of this quadrant of Cumbria the area has the unspoilt boundary of the Solway Firth; whilst to the south and east a third of Allerdale lies within the Lake District National Park boundary. The mainly pastoral nature of the area incorporates the Solway Coast Area of Outstanding Natural Beauty (AONB) to the north. In January 2013, Allerdale Borough Council (2013) invited Grampus Heritage & Training Ltd to tender for Hidden Heritage - Archaeology Services, as part of the Solway Wetlands Landscape Partnership Scheme.

## **2. INTRODUCTION AND BACKGROUND TO THE PROJECT**

2.0.1 The Solway Wetlands Landscape Partnership Scheme (LPS) is a 3-year project on the Solway Plain in North Cumbria sponsored predominantly by the Heritage Lottery Fund. It focuses mainly on the landscape heritage surrounding the peat bogs of the Solway Plain AONB. The project area extends from Allonby to Wigton, to Finglandrigg Wood, down to Orton Moss and up to the Solway Coast. This report addresses the second year of the project.

2.0.2 The partnership project comprises the Solway Coast AONB, Natural England, the Environment Agency, RSPB, Cumbria Wildlife Trust, West Cumbria Tourism, Tullie House Museum and Art Gallery Trust and the Diocese of Carlisle on the Steering Group. It is hosted by Allerdale Borough Council. Of the four varying programmes associated with the project, Grampus Heritage & Training Ltd was invited to tender for the provision of archaeological services for Hidden Heritage. This is an element of the Solway Wetlands Landscape Partnership Scheme (LPS).

2.0.3 Hidden Heritage forms the archaeological survey work programme. It was decided to concentrate the heritage research on the Medieval Period so as to extend our knowledge of the significant impact the Cistercian monks began by establishing the Abbey of Holme Cultram in Abbeytown in 1150. The environment and economy was changed by the monks over a period of almost 400 years. Following the Dissolution in 1538, Holme Cultram Abbey survived only partially as the nave of the Parish Church of St Mary.

2.0.4 The research achieved during the Hidden Heritage Project seeks to increase the understanding of the influence of the Cistercian monks on the Solway Plain landscape by investigating the abbey, as well as the associated industry, granges and chapels. Over a 3 year period the scheme seeks to research through the disciplines of:

- geophysical survey
- excavation
- walkover Survey
- archive research

2.0.5 This was achieved by engaging local people in fieldwork and by working with volunteers from the West Cumbria Archaeology Society (WCAS), who have a successful track record in excavation at the abbey and other survey work. A further aspect of this project was to provide funding for the employment of a student in the heritage field for ten weeks throughout each season.

## **3. METHODOLOGY**

### **3.1 PROJECT DESIGN**

3.1.1 A Project Design (Graham & Walker 2011) was submitted by Grampus Heritage & Training Ltd, in response to a tender put out by Allerdale Borough Council for Archaeology

Services, with regard to the Hidden Heritage section of the Solway Wetlands Landscape Partnership Scheme (LPS). Sponsored predominantly by the Heritage Lottery Fund, it focuses on the landscape heritage of the Solway Plain AONB.

3.1.2 Following acceptance of the Project Design by Allerdale Borough Council, Grampus Heritage & Training Ltd were commissioned to undertake the work. The fieldwork season aims for 2015 were to understand the relationship between the East Range Wall, Cloister Walk and Chapter House, as well as seeing the state of preservation. In addition to this, grave slabs that were uncovered in the 2008 evaluation were targeted in order to record the information on them and see if any other slabs survived. (Trench 1)

3.1.3 The area opened in 2014 where the cistern was found was a secondary target. It was decided to excavate behind the cistern (west) to see if the water sources into the cistern could be established and to determine if the walls encountered were indeed the north east corner of a building to the south west of the main cloister garth. (Trench 2)

### **3.2 ARCHAEOLOGICAL EXCAVATION – INTRODUCTION**

3.2.1 This phase of the project was undertaken in two different areas, building on previous knowledge gained in other seasons (see below). All excavations at Holme Cultram Abbey have been based on Geophysical Survey carried out in 2006 that produced several anomalies within the boundaries of the field lying to the south of the Parish Church of Saint Mary in Abbeytown. Several excavations and evaluations had been carried out in previous phases following the completion of a geophysical survey, and it was agreed that more investigation relating to the former abbey itself was needed.

The main objectives of the excavation were:

- to establish the presence/absence, nature, extent and state of preservation of archaeological remains and to record them;
- to establish the character of those features in terms of cuts, soil matrices and interfaces;
- to recover artifactual material, and analyse for dating purposes;
- to recover palaeoenvironmental material to understand site and landscape formation processes;
- to assess the archaeological results with relation to the geophysical results;
- to gain knowledge to link with the aims of the Hidden Heritage project and the North West Archaeology Framework (Brennand et al 2006,2007)

### **3.3 HOLME CULTRAM ABBEY EXCAVATION 2015**

3.3.1 Excavation in the field lying to the south of St. Mary's Church, Holme Cultram Abbey took the form of two large trenches. Trench 1 lay to the north east of the research area and Trench 2 lay to the south west of the same field to the south of the church.

3.3.2 The area to be excavated was opened by a mini digger. Topsoil was removed using a 360° mechanical mini-digger excavator fitted with a toothless ditching bucket. The soil was then removed to an area for storage. Machine excavation under archaeological supervision continued until archaeological remains were detected. Once archaeological features had been identified, the trench areas were cleaned by hand to define the archaeology. The area and all visible features were then cleaned and excavated by hand, and then recorded following best archaeological practice and CIFA Guidelines. A total of two trenches were opened. All identified archaeological features within the stripped areas were excavated by hand to the depth of their cuts wherever possible, to determine the nature and extent of the archaeology.

3.3.3 A detailed record of the stratigraphic sequence was then made following English Heritage (EH) guidelines (EH 2006). Archaeological deposits and features were sampled systemat-

ically in accordance with EH standard environmental sampling practice (EH 2011). Plans and sections were drawn on water resistant permatrace. Plans were drawn at a scale of 1:20, and sections at 1:10. The captured data was then digitised using CAD software. All finds were initially taken to the premises of Grampus Heritage & Training Ltd for processing and assessment. Following initial assessment and recording they were then sent to the relevant specialist, for further recording and analysis.

### **3.4 ARCHIVE**

3.4.1 A full professional archive has been compiled in accordance with the project design for the full report, in accordance with current English Heritage guidelines (1991). The archive will be deposited within an appropriate repository, and a copy of the report given to the Cumbria County Historic Environment Record, where viewing will be available on request.

3.4.2 The archive can be accessed under the unique project identifier GH TL15 HCA-B

## **4. BACKGROUND**

4.0.1 This project sought to build on the research carried out by the West Cumbria Archaeological Society (WCAS) on Holme Cultram Abbey, Abbeytown, Cumbria (NY 1774 5079). Initially begun in 2006 as unfunded research, the Society successfully applied for a Your Heritage lottery grant in 2009-11. Further funding through the Heritage Lottery Scheme was successfully sought for the years 2013-16, of which this phase is a part.

### **4.1 LOCATION AND TOPOGRAPHY**

4.1.1 The area known as the Holm, in which Holme Cultram Abbey sits, is defined as the outlying part of north-western Cumbria, formerly Cumberland. Bounded by the sea to the west and the Solway estuary to the north, the river Waver forms a natural boundary to the east. The region is currently mainly under rough pasture.

4.1.2 The Holm area differs from that of the rest of Cumbria in that it lacks stone or rocks. In this region, the bedrock lies deep in the Carlisle Basin as St. Bees sandstone, with none of the ruggedness of the fells of the Lake District. The region of the Holm then is flattish with only occasional glacial erratics. Layers of sand, clay and gravel lie within the built-up stratigraphy of the Holm, as well as relict beaches. (Davis 1979; Grainger & Collingwood 1929: 107; Housman 1800).

### **4.2 HISTORICAL BACKGROUND**

4.2.1 The historical background that follows is mainly taken from Grainger & Collingwood's The Records of Holme Cultram (1929). Other references are included where applicable. General reference was made to Doubleday (1901), Embleton & Graham (1984), Garmonsway (1954) and Gilbanks (1899). Further historical and archaeological information can be found in Walker and Graham 'St. Mary's Abbey Holme Cultram Abbeytown Cumbria' Research Report no. 4 CWAAS.

### **4.3 HISTORICAL PERIODS OF OCCUPATION**

4.3.1 The Prehistoric Period shows little evidence of actual occupation in the Holm. Mention is made of three 'British settlements' at West Newton close to the southern border of the Holm, but no extant evidence remains. British place-names are also absent in the area. Artefacts from the period have however been recovered, some mentioned by Ferguson (1908), and range in type from stone implements as celts, hammers and adze, to a copper alloy spear head.

4.3.2 The Roman Period left the important fort site at Beckfoot, Mawbray. A Roman Cemetery and a mile-fortlet have also since been discovered (Healey 2007). Building debris and cobbling from the Roman period were discovered at the fort site in the nineteenth century. Other artefacts recovered were an altar to Diana, querns, coins, copper beads, iron and copper fragments and pottery. The pottery ranged from Samian and storage vessels to ordinary cooking pots and mortaria. Other later finds recovered included a silver ring, carved stone and floor tiles. This is the only fort within the area known as the Holm, although other Roman coins and an altar found at Cotebank may suggest another nearer to Skinburness, evidence of which though remains elusive. A Roman road was also reputed to run from the Holm to the west in the direction of Maryport. This is not so unlikely, as there was a fort at Maryport. At the northern edge of the Holm, to the western end of Hadrian's Wall, the village of Bowness-on-Solway was the location of the Roman fort Maia that guarded the approach from the Solway. Roman stones can be seen in the local buildings including the Norman church of St. Michael, as these were built on the site of the fort (Breeze & Collingwood 2006).

4.3.3 The Anglian or Early Medieval Period followed the period of the rule of the Roman government. Romano-British peoples would still have inhabited many areas of Cumbria. No traces remain in the Holm though, possibly resulting from the exposed nature of the area and the increased likelihood of attack from the Scots to the north and the Irish to the west. Anglian settlement probably occurred as a result of migration from the east in Yorkshire, visible by the alteration of some, but not all the place-names along the way. The time of the Anglian settlement is unclear, although it is well recorded that there was already a monastery founded in Carlisle in AD685, giving the city much importance. The date when Cumberland was added to the main realm of Anglian Northumbria, is still unclear, possibly occurring in 593-617 by Aethelfrith. The Angles settled on the coast before St Cuthbert's visit of 685.

4.3.4 Their presence in the Holm is learned from Symeon of Durham (Arnold 1885) in 854 when he mentions places belonging to the Bishopric of Lindisfarne as 'Lugubalia, that is Luel, now called Carleil', going on to say 'these mansions, Carnham (Carham) and Culterham..'. It is possible then that (Holm) Cultram (or Culterham) was an estate that already belonged to the see of Lindisfarne, as did Cartmel; not monasteries but possessions of the Bishopric. The name Culterham may derive from an Angle name, originally the homestead of the family. The land of the Holm though had no agriculture, being wooded and rough, although small areas may have been cleared to allow for a homestead.

4.3.5 The Viking Period saw the Norse peoples of Northumbria settling earlier in the east region. In the west of Cumbria raids began in the ninth century, evidenced by recovery of a fibula brooch from Brayton, and a chieftain burial near Aspatria. The Vikings only became settlers though in the early tenth century. Evidence lies around the Holm of their existence but none is found within it. Here they were of Norse origin but subsequently diversified by their association with the Gaelic Celts from Ireland, the Isle of Man and the Hebrides. Their language though remained Old Norse, leaving many place names as evidence. The twelfth century saw the language and people mixed with English, and the Cumberland dialect became evident in the names of the Holm.

#### **4.4 HOLME CULTRAM ABBEY**

4.4.1 The name Holm or Holme that prefaces Cultram derives from the Old Norse word Holmr. Frequent in Scandinavia it occurs both independently and in place-names with two main senses: 1) a (small) island or 2) raised land, often surrounded by watercourses, ditches, marshland or the like. The related English word holm is only recorded in the senses of sea, ocean, or wave (Sinclair 1999). The component holmr in place-names in England and Scotland is certain to be

of Scandinavian origin. Its survival in English in the form Holme is now used as of the small grassy islands of the Northern Isles and (as a foreign word) of islands in Scandinavia, and in both Scotland and the north of England of a piece of flat low-lying ground by a river or stream, sub-merged or surrounded in time of flood. In England, it is most common for the applicability of a place-name Holmr or holm to be a piece of land that is almost surrounded by water or alternatively areas of higher dry ground in a marshy area. (Fellows-Jensen 2015). In relation to Holme Cultram either definition could be applicable. As to the Abbey lands, the area could be deemed as being almost surrounded by water as the sea, the estuary, the associated rivers and the marsh – Arlosh is said to have been a waterlogged district in 1185. The Abbey buildings, then as now, still sit on a raised area, possibly defining it as an area of higher dry ground in a marshy area. The Holm region of Cumberland is generally defined as a westerly extension of the plain of Carlisle to the Solway.

4.4.2 It is not known how the invasion of the Scots affected the transference of former ownership of the Holm from the Bishopric of the see of Lindisfarne to it becoming a monastery founded by the Scots from Melrose Abbey, the mother house of Holm Cultram. When Holm Cultram was founded and given to the monks as ‘Holmcultria’, the name was already acknowledged. The land was said to be wild forest and hunting ground, not cultivated at all. The charter mentions this in relation to both ‘Holmcultria’ and ‘Rabi’ (Raby). Within 25 years the monks had established granges bearing names suggesting earlier settlement at Mawbray, Skinburg (Skinburness), Rabi (Raby) and Grange de Ternis at Tarns.

4.4.3 The Abbey of Holme Cultram was founded by the monks of the mother house, Melrose Abbey, in AD1150. It was at its most prosperous in the twelfth and thirteenth centuries and was famous for its salt production and exports of wool. It was a Cistercian Abbey dedicated to St. Mary and the largest monastic house in Cumberland. Attacks by the Scots led to extensive rebuilding in the fourteenth and fifteenth centuries. When it was dissolved by Henry VIII in 1538, the Monastery consisted of 24 monks and an Abbot. When the dissolution was complete, the records show a total acreage in the hands of the abbey of over 1600 statute acres. A record of stone from the Abbey being sold in 1561 is listed. The place then became derelict, except for part of the nave which continued to serve as the Parish Church of St Mary. (Gilbanks 1899; Hyde & Pevsner 2010).

4.4.4 A detailed history of the Abbey can be found in Grainger, F. and Collingwood, W.G. 1929 The Register and Records of Holm Cultram CWAAS Record Series Vol. VII Kendal: T. Wilson and Son, and Walker, J.F. and M. Graham 2013 St. Mary’s Abbey Holme Cultram, Abbeytown, Cumbria: Archaeological and Historical Investigations CWAAS Research Report no.4 Bowness on Windermere Badger Press.

## **4.5 DEFINITIVE SITE BACKGROUND OF HOLME CULTRAM ABBEY**

4.5.1 The existing plan of the church was formed around 1730 when the east wall was moved westwards as part of a phase of restoration work. The Abbey was founded in 1150 by King David I of Scotland and his son Earl Henry, when some of the monks from Melrose Abbey transferred there to establish it. It has experienced extremely turbulent times owing to its close proximity to the Scottish border.

4.5.2 A guide to the Abbey, produced by the Reverend David Tembey and people of the parish, was used in the following and is available at <http://www.holmecultramabbey.org.uk/>. Since its founding, the Abbey has undergone great change. The site of the Abbey complex is a scheduled monument which includes the footprint of the standing church, previously the nave, i.e. the floor inside and extending under the walls to just outside. The field to the south of the church

is included in the scheduled area. Any excavation taking place in this area requires Scheduled Monument Consent. The Parish church is formed from the six western bays of the pre-Reformation Abbey nave of originally nine bays. The church as it stands is Grade I listed. The shop and library building and the churchyard wall are Grade II listed.

4.5.3 Following the dissolution, transfer of the abbey to a church was granted by Thomas Cromwell. Unfortunately, the Parish found it difficult to care for the large building and eventually the central tower collapsed towards the end of the 16th century. Extensive damage would have been caused at that time, and it is also recorded that a fire occurred immediately following the completion of repairs. Evidence that the infirmary still stood as late as 1600 comes from the following quote in Grainger & Collingwood (1929: 158). 'In 1557 it was ordered that the officer in charge of the domains may "lie" there; and in 1593 John Synhous (Senhouse of Netherall) as steward was commanded to be resident. The building so left was the Infirmary (le Sekeman House), probably rebuilt in 1472 and still existing.

4.5.4 Bishop Nicholson of Carlisle expressed his dismay at the shameful state of the abbey in the year of 1703. A Trust was set up in 1724 to ensure the parts of the building that were still in use were put into a solid state of repair. This involved the enclosing of the six bays, providing a roof and plaster ceiling, and at the same time galleries were added. This formed the main basis of the current Parish Church of St Mary as seen today.

4.5.5 The arcades of the original nave were filled with two levels of windows, the upper course serving to light the gallery. In about 1723 the east window, thought to be from approximately 1604, was moved westwards to its present location. The view of 1723 from the east can be seen in Some Records of a Cistercian Abbey (Gilbanks 1899). Major restoration again followed in 1883-85, when the internal galleries were removed, as well as the three-decker pulpit. The scars of the galleries on the Nave piers are still visible today. The year 1885 saw the north transept extension added to house the vestry and organ. The plaster ceiling that dated back to the 1730s was removed in 1912/13 to expose the tie-beam roof. At the same time corbels and braces were added to enhance its design. This work was paid for by the family of Sir Walter Scott, a then local industrialist and inventor.

4.5.6 The following chronology concerning archaeological work formerly carried out at the site of Holme Cultram Abbey and its environs is taken from Walker & Graham (2013). Investigation into Holme Cultram Abbey by the West Cumbria Archaeological Society (WCAS) began in 2006. Unfunded research in 2006 was carried out as a Magnetometry survey of a field to the south of the present Parish Church of St Mary, formed from parts of the original abbey building. Unfortunately an arson attack on June 9th of the same year caused considerable damage to the building; the Medieval documents, an extremely important part of the archive of the abbey, were lost during the fire.

4.5.7 Excavations from 2008- 2011 by WCAS and funded by the National Heritage Lottery fund discovered the refectory building and warming room. They established the southern, eastern and western sides of the cloister and the south western corner with foundations of the cloister walk and the inner wall. A western range of buildings was exposed and the position of eastern range established. The southern end of the eastern range was arched and evidence of water management was investigated. A substantial drain was found to the south of the buildings. Evaluation trenches discovered walls in the area of the chapter house and also cobbling and post pads representing initial habitation of the site in the northern part of the cloisters. Evidence of initial habitation also came from the western range. Finds included a quantity of medieval pottery, a gold angel coin 1471-1483 AD and a copper alloy weight, possibly a salt weight.

4.5.8 Two burials were discovered in the eastern cloister walk but were left in situ. Environmental samples largely yielded oyster shell. The cleaning of a trench first dug in 1906 saw evidence of tiles preserved in the base of the collapsed tower and a doorway. The cleaning and re-excavation of the 1906 trench at the south side of the graveyard saw the east wall of the south transept located, with a doorway and possible staircase to the upper dormer floor level.

4.5.9 More research took place in 2008 by WCAS who excavated a trench on the south side of the cloister. The south wall of the cloister, the refectory building and the warming room were discovered, as well as two graves in the cloister walk. The graves were recorded without removal of the bones. Finds included pottery and a copper alloy weight tentatively identified as a salt weight. Midden material was recovered and largely contained shell fish remains.

4.5.10 The 2009-11 excavations by WCAS were funded by the lottery under the Your Heritage grant scheme. The aim of the 2009 excavation was to find the south-west and eastern sides of the cloister, and the southern extent of the south-west corner of the cloister. The south-west corner and the west wall of the cloister, plus foundations of the cloister walk were discovered. The line of the south wall of the cloister, as well as evidence of a western range of buildings, was also exposed. The inner wall of the cloister at the south-west corner was located, and an entrance to the cloister from the south. An evaluation trench was also excavated in 2009. This aimed to confirm the position of the chapter house. Unfortunately, this work had to be abandoned due to flooding. The cleaning of a trench first dug in 1906 saw evidence of tiles preserved in the base and a doorway during the work.

4.5.11 Work continuing in February 2010 saw the excavation of an evaluation trench to investigate an anomaly on the geophysics within the cloister. A cobbled surface was found and the remnants of two possible post pads, possibly the remains of an earlier wooden structure. A further trench to locate the southern end of the eastern range was opened in the summer of 2010. An arch at the east end of the trench was probably the south end of the east range. The gully discovered may have been part of the water management system. From the bottom of the drain found running east-west in the Medieval deposits a gold angel coin of 1471-83AD date was found. The cleaning and re-excavation of the 1906 trench at the south side of the graveyard saw the east wall of the south transept located, with a doorway and possible staircase to the upper dormer floor level. The WCAS excavations established the inaccuracy of previous plans of the abbey and located the cloisters, refectory, warming room, east range, main drain, and probable position of the chapter house. The finds are exhibited at the abbey; and specialist reports and excavation results published in CWAAS Research Report 4. Most of the finds were from post Dissolution contexts, as the area had been heavily robbed for building stone.

4.5.12 With the invaluable resource of Heritage Lottery Funding, the seasons 2014-16 sought to investigate the broader picture associated with the abbey, as well as adding to the knowledge already gained from the immediate area surrounding it. In 2014 permission was obtained from the Reverend David Tembey and the Department of Culture Media and Sport for GHTL and WCAS to excavate at the scheduled monument of Holme Cultram Abbey. Excavation on site was preceded by a magnetometry survey undertaken by GHTL of the field south of the abbey. This indicated the survival of some foundations and other anomalies within the designated investigation area. The aims of the main excavation in 2014 were to further establish the arrangement of the refectory, and possibly to locate its south wall. A further aim was to try and locate the kitchen area to determine its position in relation to the refectory.

4.5.13 Three interlinking trenches were subsequently opened. The purpose was to recover evidence of relict structures, surfaces and other features associated with the former abbey.

Dating of any remnant structures, and sampling to identify any former practices that had been carried out in the area, were also significant goals. Soil samples obtained would further inform us about the diet of the occupants, possible agricultural activities, medicinal practices, and the state of the surrounding landscape. We would thus hope to increase our knowledge of the agricultural and economic activities associated with the abbey.

4.5.14 In 2015 permission was obtained from the Reverend David Tembey and the Department of Culture Media and Sport for GH TL and WCAS to continue excavations at the scheduled monument of Holme Cultram Abbey. This indicated the survival of some foundations and other anomalies within the designated investigation area. The aims of the main excavation in 2015 were to establish the relationship between the East Range and the Cloister walk and if possible also locate the chapter House. A further aim was to establish what was situated behind the cistern found in 2014, and if walls found built up against it were from a building, and if so, the building's function.

4.5.15 Two trenches were subsequently opened. The purpose was to recover evidence of relict structures, surfaces and other features associated with the former abbey. Dating of any remnant structures, and sampling to identify any former practices that had been carried out in the area, were also significant goals. Soil samples obtained would further inform us about the diet of the occupants, possible agricultural activities, medicinal practices, and thus the state of the surrounding landscape and our knowledge of the agricultural and economic activities associated with the abbey.

## **5. EXCAVATION RESULTS HOLME CULTRAM ABBEY**

5.01 Excavation at Holme Cultram Abbey was carried out between the 24th August to the 9th October 2015. The machine stripping of the trenches, which were subsequently excavated by hand down to the natural subsoil wherever possible, permitted examination of the archaeological remains within the site. All figures showing drawn plans and sections are in Appendix XVII. Trench locations are depicted in Figure 2; detailed plans and sections are depicted in Figures 3-10. In the discussion below context numbers will appear in brackets e. g. (100). Cuts for features will appear in square brackets e. g. [119]. The topsoil is context (100) and the natural substrate is context (101).

### **5.1 Trench 1**

5.1.1 Trench 1 was located on the eastern side of the site, on a slight slope, to the north east of the 2008 trench. It was designed to confirm the position of the Chapter House (2009 evaluation) and further investigate the eastern range and cloister walk; in particular, to uncover any further grave slabs which might have historical significance. In Figure 4 the main archaeological features and deposits observed can be seen. Discussion of Trench 1 below relates mainly to this plan.



**Plate 1: Trench 1 General view looking south.**

5.1.2 The West wall of the East range survives only as a robber trench with one portion of intact foundation and core remaining (114). The trench was filled with post Dissolution debris. Facing stones survive on both sides of the surviving wall remnant (114) though these are at foundation level. The west wall runs North South across the trench. Very few of the sandstone blocks remain as they have been robbed out. The foundations were large cobbles (405) levelled with fragments of sandstone and chipping debris (404) to form the base for the East range wall (114). The foundations for the day stairs survive (199) beneath a mortar rich layer (102) and demolition layer (149). The foundations consist of large sandstone slabs with a heat affected clay deposit to the West which may represent a floor level (400). A robbed out drain cuts through this area east - west [198] containing (122), a sandy matrix interpreted as a mixture of demolition material and drain fill. Five small finds were recovered from this context: SF20, 68, 72, 76, 128. Three sherds of pottery were recovered dating from 14<sup>th</sup> -17<sup>th</sup> centuries. The same drain was recorded to the west of the robbed-out Chapter House wall [109] in a state of good preservation with intact capstones (128). The capstones appear to be higher than the surrounding floor surfaces and the drain runs through the south-east corner of the Cloister Walk. The crude nature of the capstones combined with higher elevation suggests that this is a later structure, perhaps addressing draining issues within the Cloister Garth. The drain contained a moist grey brown fill (134) from which SF# 151 was recovered.



**Plate 2: Close up of wall core (114) post clean (facing west)**

5.1.3 At the southern extent of trench 1, a wall cut [150] backfilled with demolition rubble (147) was recorded aligned east west and continuing into the eastern section. The corresponding southern extent of this robbed out wall was beyond the southern extent of excavation. This feature aligns with the north wall of the southern cloister range found in 2008.

5.1.4 The western half of trench 1 was located in the east cloister walk. This area was only partially excavated through a hand-dug slot along the western trench extent. The aim of this slot was to identify the presence of graves and graveslabs and to assess the extent of disturbance. The aim of the excavation was not to excavate undisturbed burials, but rather to identify and record such features where encountered. A line of east west orientated grave cuts was identified and recorded within the cloister walk between the west Chapter House Wall [109] and western extent of excavation. The grave cuts identified and marked in Figure 4 are [139], [130], [171], [169], [163], [159], [196], [194]. The majority of these had evidently been disturbed and backfilled with demolition rubble. It is possible that these empty grave cuts had been exhumed, perhaps by relatives, and reburied when the land was deconsecrated.

5.1.5 Two grave slabs were fully exposed in the south west corner of Trench1, though the graves were not excavated. One of these (106) had been partially exposed in the 2008 excavations. At the end of the 2008 excavations, during backfilling, the rest of the grave stone was exposed and photographs taken. These resulted in an inaccurate interpretation of the inscription (CWAAS Research report4 2013). The opportunity was taken to record this gravestone accurately.

5.1.6 The inscription of (106) begins IHONE DE NIUETUN - John de Newton, with the remainder of the inscription in Lombardic French as previously reported. This grave lies at the eastern extent of the south cloister walk. The second gravestone (107) lay to the North of (106) at the southern extent of the east cloister walk. The inscription reads: HIC . JACET . DOMINA . EOA . DE . NEUT : Here Lies 'Lady' Eoa(?) De Newton. Both slabs are likely to be graves of the de Newton family of West Newton, with connections in Wigton. Appendix XI is a report on the grave slabs by Peter.

5.1.7 To the south east of grave slab (107) lay an area of sandstone rubble (413) overlying an apparent sunken grave fill of orange clay (179) which remained unexcavated. The fine sandstone rubble (413) appeared to be demolition material, though may have been a levelling layer in the south east corner of the cloister walk. A silver penny SF#87 dating from 1279-1307 was recovered from this deposit.

5.1.8 The interior of the chapter house was excavated to natural clay (101) with no intact floor surfaces surviving. A large amount of demolition rubble, including a number of floor tiles were recovered from this area (111, 112). Upon further excavation, these deposits were found to overly a disturbed grave [173]. The grave fill consisted of rubble and broken floor tile. However, at the western extent of the cut a fragment of human pelvis overlay a fragment of human skull. These were not exhumed but photographed in-situ and re-buried. The identification of a burial within this building, along with the position within the eastern range, is strong evidence of function at The Chapter House. The disturbed nature of the grave, backfilled with building rubble and disarticulated human bone, is suggestive of post-dissolution 'treasure hunting' rather than careful exhumation and reburial. The thorough nature of the stone robbing in Trench 1 shows the extent to which the raw materials used to build the monastery were valued and 'recycled' post-dissolution. The tip lines of rubble noted in the eastern section suggest that the area of the chapter house was, for some time post-dissolution, left open as a robbed feature, allowing a water carried silt deposit (112) to form above the natural clay. Sometime later, a large quantity of building rubble was used to fill in this depression, as evidenced by the tip lines of dumping material within (104) from both the north and south end of the trench shown in Figure 5, Section 5. This would be a logical act of 'landscaping' following the robbing of stone to return the field to a useable state. It is not possible to ascertain why a small portion of wall survived the campaign of stone robbing, or why the archaeological preservation was so good in the south west corner of the trench. One possibility is that these areas lay beneath the spoil heaps generated by the demolition and robbing activity, thus leading to small pockets of preservation.



**Plate 3: (111) and (113) in Chapter House (facing south)**



**Plate 4: [173] (174) grave cut and fill in Chapter House (411) and (412) (facing east)**



**Plate 5:** East facing view of the south west corner of trench 1. Grave slab (106) is in the right foreground located in the south cloister walk. In the centre of the image is the stone lined drain (128) and to the left grave slab (107) can be seen in the east cloister walk. The drain runs through the south east corner of the cloister walk.



**Illustration I:** Grave slab (107). Drawn by Hayley Graham

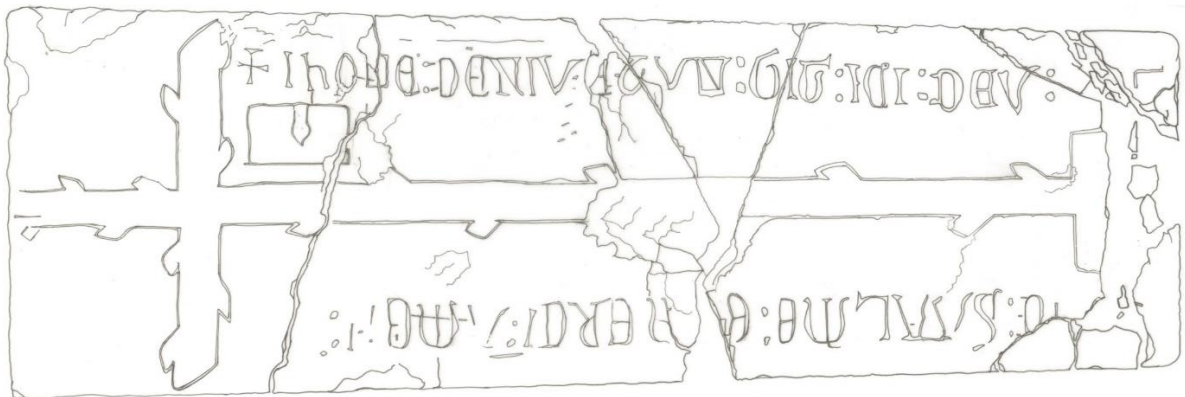


**Illustration II:** Grave slab (106). Drawn by Hayley Graham

## **5.2 TRENCH 2**

5.2.1 Trench 2 was orientated North – South 13.5m x East – West 9.1m and was located in the most south westerly corner of the field to the north of the modern farm buildings. The plan shown in Figure 8 will be referred to in this discussion.

5.2.2 The North East corner of the trench uncovered the latrine, wall and steps in the north east corner of the building as recorded in the 2014 season. The trench was opened up to the south and west of this corner to establish the extent and nature of the building. Below the general cleaning layer (202), three walls representing 3 sides of a building were uncovered, which comprised the Western wall with buttresses running North – South (203), the North wall which ran East – West (217) and the Eastern wall which ran North – South (216). These walls comprised of large sandstone blocks. Walls (217) and (216) were of similar widths of 0.63m and 0.66m respectively but (203) was much wider, 1.10m with the buttresses. This building had been divided by a partition wall, the stone foundation of which still survived (210), creating a Northern room and Southern room.

5.2.3 The Northern room was excavated down to (227), a dark brown deposit which was against the west side of the room, next to wall (203) and (225) a dark black deposit which filled the rest of the room. A stepped sondage was dug against the baulk left between the 2 rooms to see if the natural could be found, but work was stopped as the deposit continued beyond safe working depths.

5.2.4 A slot was dug in the Northern room against the Western wall (203) to follow the wall down to determine the foundation level. The wall went down to a depth of more than 1m.20cms: it was not fully excavated for health and safety reasons. This portion of the Western wall (203) also contained the surviving levels of a fire place feature (287) which was useful in determining the original floor level as all of the deposits within the building had slumped.



**Plate 6: Fireplace (287) post excavation (facing south)**

5.2.5 The baulk left between the Northern and Southern rooms was excavated to deposits (206), a grey brown silty soil with animal bone, pottery, tile, metal fragments and stone/pebble inclusions. To the west of this deposit in the baulk, deposit (213) comprised of a very rubbly demolition layer with frequent fragments of sandstone, mortar and roof tile inclusions.



**Plate 7: General view of trench 2 looking south. The back of the cistern (211) is in the foreground with the south culvert (219) beneath the corner of the building (217). The hearth (233) in the south room is visible in the top right of the image.**

5.2.6 In the north eastern corner of the southern room, the remains of a clay surface (242) was uncovered, which had large sandstone blocks embedded in it. To the west of this (261) comprised of a loosely compacted rubble deposit which was above (253), which comprised of a pale pink sandy matrix. This was above (254) which comprised of a loose grey midden layer which is equal to (277) in the north end of the trench.

5.2.7 In the southern room a stone and clay hearth was uncovered (233) with associated heat affected clay surfaces and midden material (207), (230), (231), (264) and (250). These surfaces and hearth had slumped in the centre of the building and lay below the foundation level of the walls (216), (203).



**Plate 8: South facing view of the south room in trench 2. The central rectangular hearth (233) of stone and clay is in the upper centre of the image with heat affected clay and burnt midden material to the east and west. The north facing section shows earlier deposits beneath the floor surface including the drain (258) beneath the hearth. The lead pipe can be seen on the left side of the photo.**

5.2.8 Drain (258) was uncovered running North - South below hearth (233) and a dump of stone roofing material to the north (261). The drain comprised of edge stones (283), capstones (301) and a stone base (258). Further north, the base was made of tile (284). A length of lead water pipe was also uncovered beneath the floor surface layers, running from the east wall (216) to the drain (258).

5.2.9 Cut into the heat affected surface layers were three postholes (235, 236, 237). Post hole (237) cut through the underlying lead pipe. The hearth (233) and associated burning and midden deposits are contemporary with the occupation of the building, whereas the drain (258), lead pipe and all underlying deposits pre-date the building and relate to a large cut feature into the natural and the subsequent infilling and use of this feature for water management. The section drawing shown in Figure 8 shows the stone foundation of the partition wall (210) and the sequence of deposits underneath which pre-date the building. Organic rich deposits were encountered in the sequence below the building and were sampled. The building overlies a deep cut into the natural [329] which may have been for material extraction during a construction phase at the abbey and/or to provide a pond relating to water management.

5.2.10 The construction of the building over a previously cut and backfilled feature explains the difference in wall thicknesses observed in the building construction. The east wall (216) was a little over 0.6m wide and required no additional supports. This wall sits on the natural clay on the edge of, and parallel to, the earlier cut feature or pond [329]. In contrast, the western wall (203) is constructed within the cut feature, meaning that the wall is cut into soft backfill material (254). The foundations are much deeper and could not be fully excavated. The wall width is also wider than the eastern wall and two buttresses were constructed on the western face of the wall, contemporary with the construction of the building, to provide further support for what must have been a two-story building. The northern room would likely have an upper floor and a timber or wattle and daub partition constructed on a stone foundation (210), whilst the southern room, with open central hearth, would have been open to the rafters.



**Plate 9: Showing on edge of large cut [329] in natural below (210), showing (205) (254) (294) (facing south)**

5.2.11 The area to the west of the cistern (211) excavated in 2014 beyond the north-west corner of the building was also investigated. The earliest phase of activity in this area was represented by a cut into the natural clay [330]. This flat-bottomed cut feature was then lined with flat stones in the base (307). Cut [330] is parallel to cut [329] identified in the north-west corner of the southern room underlying wall (216) and may represent the west side of the same cut feature. This may have been an early feature of the water management system on the site, perhaps a pond or lined water tank. The next phase of activity in this area is the deposit of orange sandy clay (288) to fill in the cut and cover the stone base. This deposit was then cut into [275] for the construction of the two water culverts (276), (219) and the cistern (211). The building walls (203), (217) were then constructed, with the corner of these two walls overlying the southern culvert (219).



**Plate 10: Cut feature [330] with stone lined base (307), which was covered by (228), which was then cut by [275] for the construction of culverts (276), (219) and cistern (211). The building walls (203), (217) were then constructed, with the corner of these two walls overlying the southern culvert (219). (facing east)**



**Plate 11: East facing view of the back of the cistern (211) showing water culverts (276 left) and (279 right). Note the difference in colour of deposits feeding into the cistern with the north culvert (276) being orange and iron rich compared to the organic rich black material in the south culvert (219). The contents of these culverts have been sampled. Note also that the building corner on the right of the image shows the north wall (217) constructed on top of the culvert.**

## **6. FINDS METHODOLOGY**

### **6.1 INTRODUCTION**

6.1.1 The archaeological finds assemblage recovered from Holme Cultram Abbey consisted mainly of material from the Medieval period. Some artefacts from later periods were recovered from un-stratified and cleaning contexts in the upper strata. Finds were cleaned, dried, bagged and labelled on site. For the main, artefacts recovered were washed in clean tap water using a soft brush to remove dirt; they were then placed on trays and dried. Medieval glass was boxed immediately without washing. When finds were completely dry they were bagged and labelled by context. Iron objects were thoroughly dried to prevent further corrosion and then bagged and labelled by context. Large stones were brushed clean before recording. Recording and analysis was undertaken in the laboratory. The finds were cleaned, packaged and recorded according to English Heritage guidelines (1991, 2006). A complete recording and analysis will be produced for the full report by the relevant specialists.

### **6.2 FINDS RECOVERED**

6.2.1 Finds occurred as several different types. structural parts of the abbey including roof tile and glazed and unglazed floor tiles. These have been assessed and recorded. A number of sherds of Medieval green glazed on grey fabric were recovered, as well as Medieval kitchen fabric types. At least two waster sherds of green glazed medieval pottery on grey reduced fabric were identified. It seems likely there was a pottery kiln in the vicinity, though extensive geophysical surveying has not located one. Possibly it lies under the houses to the West of the site, surrounding Friars Garth, identified as an industrial area within the precincts of the Abbey. The possibility of comparison of the waster sherds with the pottery from the excavations by petrological analysis is being investigated and might demonstrate much of the pottery was made on site.

6.2.2 Medieval painted glass had been sent to Dr Rachel Tyson to be recorded and selectively illustrated, her report featuring in the final excavation report for HCA-A. Lead window came was also recovered. Handmade iron nails were found in varying condition and have been quantified.

6.2.3 Notable finds include an engraved stone, found in the possible Abbot's lodging. It is concave, and may have been used as a mould. It shows a sun surrounding letters which may read DN - Dominus Noster (Our Lord), the sun representing 'a sun in splendour' the symbol adopted by Edward IV following the Battle of Mortimer's Cross, 1461. Alternatively, if used as a mould, the letters could be the initials of Robert Chambers, Abbot at Holme Cultram Abbey 1507-1518.



**Illustration 3: Carved stone showing initials (DN?) within a sun in splendor. When reversed, the initials appear RC, separated by a staff. Drawn by Marilyn Leech**



**Plate 12: Carved stone on the abbey porch showing chained bear and initials of Robert Chambers separated by a staff or crozier.**

## **7. DISCUSSION**

7.0.1 The excavations of 2015 have added to our knowledge of the layout of the Abbey buildings, confirming the positions of the Eastern cloister walk and its junction with the Southern cloister walk, the existence of more graves along the Eastern cloister walk adjoining the Chapter house and their state of preservation, the position of the chapter house and the day stairs, and the East range - all in trench 1. It is not possible to conclusively ascertain the function of the building excavated in Trench 2. It is certainly a well-appointed and self-contained building for accommodation complete with latrine, fireplace and open hearth for cooking. There is some doubt as to whether this would be 'grand' enough for the Abbots lodging though this would be a possibility. More likely however would be that the building was the infirmary's lodging, with the infirmary located to the south west under the farm at Mill Grove. The building has been built over a large pit or pond accounting for the more substantial Western wall, which would have been susceptible to subsidence. The pit predates the building and may relate to material extraction during the construction phase of the abbey and/or water management at the site. Assessment and reporting of the finds from the 2014 and 2015 is ongoing with the following specialists. Fish Bone: Dr Brian Irving. Bird and mammal bone: Don O'Meara. Masonry: Richard Wilson. Small Finds: Tim Padley.

7.0.2 Future work could tackle several questions raised -1. Is there a second cloister to the South of the main cloister? - The lie of the land suggests this but farm buildings may prevent investigation. 2. What is the nature of the buildings to the West of Trench 2? 3. Where is the tile kiln and the pottery kiln - wasters of both pottery and tile have been found! 4. Can we locate the mill at Millgrove House? What sort of mill was it? The mill itself is probably under the farm buildings but geophysical surveying to the South and East of the barns suggest a possible mill leat. We hope to investigate at least one of these priorities in 2016.

## **8. CONCLUSIONS AND RECOMMENDATIONS**

8.0.1 With the aid of our team of volunteers we have been allowed, during this phase of the project, to accumulate information to add to the research priorities of the North West Regional Framework (Newman & Newman 2007). The more knowledge we gain from this, and the other sites associated with the abbey, the more the research priorities and potential methods of implementation and delivery will be tested for future archaeological research in the area.

8.0.2 Many of the finds have gone to specialists for full assessment and reporting. Regarding these, as well as the organic and bone remains, the clear definition of the features encountered during the excavation led to secure context sampling in most cases. This will lead to better definition of certain areas and the processes some of the organic remains have gone through before deposition. The potential for defined informative results from the assessment of the organic remains and the finds is exceptional and should give us a clearer picture of how the abbey worked in the study area. It may be possible to phase areas through various periods of the abbey's use.

8.0.3 The information recovered will be used to determine the types of foodstuffs and other anthropological activities that were carried out on or near the site of Holme Cultram Abbey. This will feasibly enable us to determine the practices and procedures carried out in different areas of the abbey, and possibly changes seen through different phases.

## **8.1 ARCHAEOLOGICAL POTENTIAL & FURTHER WORK**

8.1.1 Our aim of engaging the public, on whatever level they feel comfortable with, has been a success! We now have a strong core of volunteers who can use their newly acquired or improved key skills in making the project successful. Their willingness to undertake tasks has led to an uplifting atmosphere in all aspects of excavation and post-excavation work. They are keen to learn more about the history and archaeology of the project area.

8.1.2 The aims of further seasons of excavation at the abbey could include further investigation into the water system, including tracing the two inlet culverts (276 & 279) from the cistern (211) back to their respective sources. The south culvert (279) in particular contained organic material and food waste which may indicate another building and kitchen to the west of trench 2. Could this culvert also be serving the infirmary before reaching the cistern? Investigation of the Abbey Mill would also be a priority for fieldwork in the low lying land to the south of the monastery. Although the mill may be under more recent buildings, fieldwork may reveal the course of the mill leat or tailrace.

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**ELECTRONIC RESOURCES**

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## APPENDIX I: CONTEXT INDEX

| CONTEXT INDEX |        |                |                                                               |       |         |
|---------------|--------|----------------|---------------------------------------------------------------|-------|---------|
| HCA-B         |        | GHTL 15        |                                                               |       |         |
| CON-TEXT NO   | TRENCH | TYPE           | BRIEF DESCRIPTION                                             | ABOVE | BELOW   |
| 100           | 1      | Topsoil        | Topsoil of site. Grass covered                                |       |         |
| 101           | 1      | Natural        | Natural substrate                                             |       |         |
| 102           | 1      | Deposit        | Mortar rich deposit. Grey brown                               | 104   | 403     |
| 103           | 1      | Deposit        | Black/brown deposit rich in organics                          | U/E   | 102     |
| 104           | 1      | Deposit        | General cleaning layer                                        |       | 100     |
| 105           | 1      | Deposit        | Rubble layer in N ext where tiles came from                   |       | 104     |
| 106           | 1      | Grave Slab     | South side of trench 1                                        | U/E   | 104     |
| 107           | 1      | Grave Slab     | Just north of (106)                                           | U/E   | 104     |
| 108           | 1      | Fill           | Fill of robbed out wall east range                            | 113   | 104     |
| 109           | 1      | Cut            | West side for wall - east range                               | 101   | 108     |
| 110           | 1      | Fill           | South end of East range                                       | 113   | 104     |
| 111           | 1      | Deposit        | Demolition Episode                                            |       | 112     |
| 112           | 1      | Deposit        | Silty sand                                                    | 111   | 104     |
| 113           | 1      | Fill           | Foundation layer                                              | 404   | 114     |
| 114           | 1      | Fill           | Conglomerate of stone east side of east range wall            | 113   | 104     |
| 115           | 1      | Masonry        | Foundation stone in situ                                      | 113   | 104     |
| 116           | 1      | Cut            | Return towards east of east range wall cut?                   | 101?  | 105     |
| 117           | 1      | Clay deposit   | Clay deposit possibly retainer                                | 105   | 101 406 |
| 118           | 1      | Cut            | For south side of return for east range wall                  | 101?  | 105     |
| 119           | 1      | Deposit        | Burnt layer around and beneath baulk, south end of trench     | 135   | 120     |
| 120           | 1      | Rubble Deposit | above Pat's (119)                                             | 119   | 104     |
| 121           | 1      | Mortar         | Strip                                                         |       | 104     |
| 122           | 1      | Fill           | between (121) and (102) in east section of most southerly ext |       | 104     |
| 123           | 1      | Clay           | Burnt clay grey with charcoal                                 | 121   | 101?    |
| 124           | 1      | Deposit        | Sandstone rubble                                              | 101?  | 104     |
| 125           | 1      | Cut            | Grave cut for grave                                           | U/E   | 126     |
| 126           | 1      | Fill           | Fill of Grave                                                 | 125   | 104     |
| 127           | 1      | Deposit        | clay sealing caps of drain                                    | 128   | 120     |
| 128           | 1      | Capstones      | Stone slabs capping drain under (120)                         | 129   | 127     |
| 129           | 1      | Structural     | Stone lining of drain running West - East                     | 133   | 128     |
| 130           | 1      | Cut            | Cut for grave on west side of trench                          | 101?  | 131     |
| 131           | 1      | Fill           | Fill of grave                                                 | 130   | 104     |
| 132           | 1      | Cut            | For drain                                                     | 101   | 133     |
| 133           | 1      | Structural     | stone base lining drain                                       | 132   | 134     |
| 134           | 1      | Fill           | Fill of stone lined drain                                     | 133   | 128     |

|     |   |            |                                                                                                |      |         |
|-----|---|------------|------------------------------------------------------------------------------------------------|------|---------|
| 135 | 1 | Deposit    | east side [132] adjacent to drain                                                              |      | 119     |
| 136 | 1 | Cut        | for east side of east range wall                                                               | 101? | 113     |
| 137 | 1 | Deposit    | black clay around grave west side of trench                                                    | 138  | 104     |
| 138 | 1 | Deposit    | brown/orange fill of grave cut within (137) [139]                                              | 139  | 104     |
| 139 | 1 | Cut        | Cut of "Kevin's grave"                                                                         | 101? | 138     |
| 140 | 1 | Deposit    | To east of east range wall possible ext of drain sondage SF#33                                 | 148  | 104     |
| 141 | 1 | Deposit    | Orangey grey clay adjacent to drain west side of trench                                        | 128  | 104     |
| 142 | 1 | Cut        | Oval pit?                                                                                      | 101  | 143     |
| 143 | 1 | Deposit    | Fill of [142]                                                                                  | 142  | 112     |
| 144 | 1 | Deposit    | Grey clay in NW corner near grave slab adjacent to 2008 trench                                 | U/E  | 104     |
| 145 | 1 | Deposit    | Elevated deposit surrounding (106), between (106) (107)                                        |      | 104     |
| 146 | 1 | Deposit    | Orange deposit in south section of trench 1 adjacent to (106)                                  | 415  | 120     |
| 147 | 1 | Fill       | Fill of wall in extreme south of trench beyond stone plinths in south of [109] east range wall | 414  | 104     |
| 148 | 1 | Deposit    | in south of trench to east of east range wall south section                                    | 113? | 104     |
| 149 | 1 | Deposit    | below (102) in south of trench at junction of T shape                                          | 101? | 102     |
| 150 | 1 | Cut        | South end of east range wall almost in section                                                 | 101? | 147=151 |
| 151 | 1 | VOID       |                                                                                                | 147  | 104     |
| 152 | 1 | Fill       | Fill of cut [150] in south of trench                                                           | 150  | 104     |
| 153 | 1 | Structural | Foundation level of wall in end of Trench going into section cut [154]                         | 404  | 104     |
| 154 | 1 | Cut        | most northerly for (153) return                                                                | 101  | 405     |
| 155 | 1 | Cut        | most southerly for (153) return                                                                | 101  | 405     |
| 156 | 1 | Deposit    | Clay defining edge of north east and west of [136] & [155]                                     | 101  | 104     |
| 157 | 1 | VOID       |                                                                                                |      |         |
| 158 | 1 | VOID       |                                                                                                |      |         |
| 159 | 1 | Cut        | Grave in NW of trench Grave 2 to south of (157)                                                | 101  | 160     |
| 160 | 1 | Fill       | Fill of [159] to south of [157]                                                                | 159  | 104     |
| 161 | 1 | VOID       | same as 149                                                                                    |      |         |
| 162 | 1 | Deposit    | White mortar in East chancel house beneath (112)                                               | 174  | 112     |
| 163 | 1 | Cut        | for grave                                                                                      | 101  | 164     |
| 164 | 1 | Fill       | of grave                                                                                       | 163  | 104     |
| 165 | 1 | Structure  | remaining portion of east range wall east side                                                 | 109  | 104     |
| 166 | 1 | Structure  | Remaining portion of east range wall west side                                                 | 109  | 104     |
| 167 | 1 | Structure  | Key stone on east side of east range wall to north end of (117)                                | 113  | 104     |
| 168 | 1 | Deposit    | Sandy clay between south section & (106) orange matrix level top of slab                       | 416  | 119     |
| 169 | 1 | Cut        | For grave (170)                                                                                | U/E  | 189     |
| 170 | 1 | Fill       | for grave [169]                                                                                | 169  | 104     |
| 171 | 1 | Cut        | for grave (172)                                                                                | U/E  | 172     |

|     |   |            |                                                                                                      |         |          |
|-----|---|------------|------------------------------------------------------------------------------------------------------|---------|----------|
| 172 | 1 | Fill       | for grave [171]                                                                                      | 171     | 104      |
| 173 | 1 | Cut        | Upper (grave slab?) cut for feature                                                                  | U/E     | 412      |
| 174 | 1 | Fill       | Fill of [173] - tile filled                                                                          | 182     | 162      |
| 175 | 1 | VOID       | SEE 199                                                                                              |         |          |
| 176 | 1 | VOID       | SEE [173]                                                                                            |         |          |
| 177 | 1 | VOID       | SEE 174                                                                                              |         |          |
| 178 | 1 | Deposit    | north side of drain [132] below (104) next to clay (141) rubbly deposit                              | 119     | 104      |
| 179 | 1 | Deposit    | Clay deposit to south of (107) slab may be associated with it                                        | UE      | 104, 178 |
| 180 | 1 | Deposit    | Sandy soil in section & sondage east side of Trench 1 to north of (199) adjacent to cuts [116] [118] | 116 118 | 104      |
| 181 | 1 | Fill       | Rubble fill red rubble layer below (119) next to (107) south end                                     | 186     | 119      |
| 182 | 1 | Deposit    | White mortar deposit layer below (112) tile inclusions                                               | 411     | 174      |
| 183 | 1 | Fill       | Red sandstone and Clay fill possible surface south end                                               | U/E     | 102      |
| 184 | 1 | Cut        | Cut [159] and (160) north end of trench 1                                                            | 197     | 185      |
| 185 | 1 | Fill       | of [184] brown, rubble and clay                                                                      | 184     | 104      |
| 186 | 1 | Fill       | Red clay below (181) rubble layer                                                                    | 413     | 181      |
| 187 | 1 | Cut        | Grave cut six from north section on west                                                             | U/E     | 188      |
| 188 | 1 | Fill       | Fill of grave [187]                                                                                  | 187     | 104      |
| 189 | 1 | fill       | Secondary fill of [169]                                                                              | 169     | 170      |
| 190 | 1 | Cut        | Small squarish cut on cloister walk                                                                  | U/E     | 191      |
| 191 | 1 | Fill       | Fine red sandstone rubble                                                                            | 192     | 104      |
| 192 | 1 | Fill       | Grey clay in NW corner near grave slab adjacent to 2008 trench                                       | 190     | 191      |
| 193 | 1 | VOID       |                                                                                                      |         |          |
| 194 | 1 | Cut        | For Grave                                                                                            | 101     | 195      |
| 195 | 1 | Fill       | Of Grave most northern grave                                                                         | 194     | 104      |
| 196 | 1 | Cut        | for grave south of [194]                                                                             | 101     | 197      |
| 197 | 1 | Fill       | Of grave south of [194]                                                                              | 196     | 104      |
| 198 | 1 | Cut        | For drain east side of east range wall to east section                                               | 101     | 122      |
| 199 | 1 | Structural | Remnants of Day stair                                                                                | U/E     | 102      |
| 400 | 1 | Deposit    | Deposit above (123) on south side of [198]                                                           | 123     | 104      |
| 401 | 1 | Deposit    | Deposit above (123) on north side of [198]                                                           | 403?    | 123      |
| 402 | 1 | Structural | Foundation Granite boulders below (113) in east range wall                                           | 154     | 153      |
| 403 | 1 | VOID       | see (149)                                                                                            |         |          |
| 404 | 1 | Structural | Rubble sandstone fragments & chippings to level (405)                                                | 405     | 408      |
| 405 | 1 | Structural | Cobbles base of east range wall large cobbles in cut [109] [136]                                     | 109 136 | 404      |
| 406 | 1 | Structural | stones lining east side of east range wall. Dressed stone                                            | 113     | 104      |
| 407 | 1 | Structural | Stones lining west side of east range wall. Dressed stone                                            | 113     | 104      |
| 408 | 1 | Deposit    | Clay above (404)                                                                                     | 404     | 113      |
| 409 | 1 | VOID       |                                                                                                      |         |          |
| 410 | 1 | Deposit    | Clay west side of baulk (104) to east side above large stones                                        | 179     |          |

|     |   |            |                                                                         |              |         |
|-----|---|------------|-------------------------------------------------------------------------|--------------|---------|
| 411 | 1 | Fill       | Secondary fill of Grave [173]                                           | 412          | 182     |
| 412 | 1 | Fill       | Primary fill of grave [173]                                             | 473          | 411     |
| 413 | 1 | Deposit    | Below (135) = (181) east side of baulk                                  | UE           | 181     |
| 414 | 1 | VOID?      | adjacent to key in north                                                |              |         |
| 415 | 1 | Deposit    | Above (144) to east of (106) goes through baulk                         | 146          | 119     |
| 416 | 1 | Deposit    | Grey clay below (168) south of (106)                                    | 417          | 168     |
| 417 | 1 | Deposit    | Red rubbly layer below (416) chips and frags of degraded sandstone      | 418          | 416     |
| 418 | 1 | Deposit    | Grey clay layer below (417)                                             | 101          | 417     |
| 200 | 2 | Topsoil    | Over the field equal to (100) in trench 1                               |              |         |
| 201 | 2 | Natural    | equal to (101) in trench 2                                              |              |         |
| 202 | 2 | Deposit    | All site general cleaning layer                                         |              | 200     |
| 203 | 2 | Structural | Wall furthest west                                                      | UN-<br>KNOWN | 202     |
| 204 | 2 | Deposit    | Under (202) east. Outside of wall south end                             | 226          | 202     |
| 205 | 2 | Deposit    | Upper fill of south inside walls of stone line single course            | 248          | 202     |
| 206 | 2 | Deposit    | North inside wall line (205) same as (210)                              | 213          | 202     |
| 207 | 2 | Deposit    | Midden burnt black layer near wall. (Lots of shell and bones) south end | 262 263      | 205     |
| 208 | 2 | Structural | Steps next to/behind toilet                                             | U/E          | 266     |
| 209 | 2 | Structural | Flags south end                                                         | 227          | 202     |
| 210 | 2 | Structural | Lines of stone in middle                                                |              |         |
| 211 | 2 | Structural | Cistern Vault                                                           | U/E          | 202     |
| 212 | 2 | Structural | Cistern Back wall                                                       | 201          | 202     |
| 213 | 2 | Deposit    | Mortar sandy layer in rubble                                            | 222          | 202     |
| 214 | 2 | Structure  | Buttress                                                                | U/E          | 202     |
| 215 | 2 | Structure  | Toilet RECORDED IN HCA-A GHTL 14                                        |              |         |
| 216 | 2 | Structure  | Wall                                                                    |              | 202     |
| 217 | 2 | Structure  | Wall north end                                                          | U/E          | 202     |
| 218 | 2 | Deposit    | Lower level, below north end (206) middle rubble of structure           |              | 206     |
| 219 | 2 | Structure  | Caps of South culvert into cistern                                      |              | 220     |
| 220 | 2 | Deposit    | Dark brown bone rich overlying culvert (219)                            | 219 221      | 202     |
| 221 | 2 | Deposit    | Clay sealing culvert caps                                               | 219          | 220     |
| 222 | 2 | Deposit    | Clay pink orange (under (206) & (213))                                  | 225          | 213 206 |
| 223 | 2 | Deposit    | Grey clay & charcoal                                                    | 224          | 213     |
| 224 | 2 | Deposit    | orange clay poss floor surface                                          | 206 225      | 223     |
| 225 | 2 | Deposit    | Soft dark brown black soil                                              | 222          | 228     |
| 226 | 2 | Deposit    | dark brown outside of east wall                                         | 278          | 204     |
| 227 | 2 | Deposit    | dark brown west of west wall (203)                                      | 252          | 202     |
| 228 | 2 | Deposit    | Grey brown silty clay north of (210)                                    | 253          | 225     |
| 229 | 2 | Deposit    | Light brown east corner south end                                       | 254          | 205     |
| 230 | 2 | Deposit    | Black south end                                                         |              | 205     |
| 231 | 2 | Deposit    | Yellow clay south end                                                   | 207          | 202     |
| 232 | 2 | Deposit    | red fired clay south end                                                |              | 202     |
| 233 | 2 | Feature    | Stones and clay (hearth)                                                | 267          | 202     |

|     |   |            |                                                                        |     |         |
|-----|---|------------|------------------------------------------------------------------------|-----|---------|
| 234 | 2 | Deposit    | Mottled clay south end                                                 | 250 | 202     |
| 235 | 2 | Fill       | Fill of [245] post hole near to wall                                   | 245 | 202     |
| 236 | 2 | Fill       | Fill of [246] near to stones                                           | 246 | 202     |
| 237 | 2 | Fill       | Fill of [244] post hole next to (235)                                  | 244 | 202     |
| 238 | 2 | Deposit    | South end corner stone area                                            |     | 229     |
| 239 | 2 | Deposit    | Soft grey under (230) (238)                                            |     | 230     |
| 240 | 2 | Deposit    | Dark burned area south end                                             |     | 238     |
| 241 | 2 | Deposit    | Pale yellow and grey clay south end                                    |     | 234     |
| 242 | 2 | Deposit    | Orange claysub floor. Corner of baulk abutting (210)                   |     | 272     |
| 243 | 2 | Fill       | Fill of south culvert north end cut [275] cistern back (219)           | 275 | 221     |
| 244 | 2 | Cut        | Post hole next to east wall south end                                  |     | 237     |
| 245 | 2 | Cut        | Post hole in yellow clay south end                                     |     | 235     |
| 246 | 2 | Cut        | Post hole stone covered north area south end                           |     | 236     |
| 247 | 2 | Deposit    | Possible animal burrow small animal bones and 2 skulls in shallow hole | U/E | 202     |
| 248 | 2 | Deposit    | Soft brown soil west of east wall (216) not finds rich                 | 257 | 242     |
| 249 | 2 | VOID       |                                                                        |     |         |
| 250 | 2 | Deposit    | Thin layers of pale yellow and black                                   | 254 | 234     |
| 251 | 2 | Cut        | East of east wall cut into rubble/clay                                 | U/E | 252     |
| 252 | 2 | Fill       | Large stones & brown soil of east wall                                 | 251 | 226     |
| 253 | 2 | Deposit    | Pale sand south end of trench                                          | 259 | 261     |
| 254 | 2 | Deposit    | Grey loose charcoal with some bone                                     |     | 250 253 |
| 255 | 2 | Deposit    | Pale hard clay with copper inclusions                                  | 253 | 233     |
| 256 | 2 | Deposit    | Dark organic fish bone, spot sampled                                   | 258 | 253     |
| 257 | 2 | Deposit    | Soft brown, some bone, charcoal, west of east wall                     | 101 | 248     |
| 258 | 2 | Structural | Bottom of drain, flat stones seen in slot east - west                  | 254 | 256     |
| 259 | 2 | Deposit    | dark grey bone rich charcoal and clay                                  | 258 | 253     |
| 260 | 2 | Deposit    | Pale grey sand and mortar bone rich                                    | 282 | 259     |
| 261 | 2 | Deposit    | Rubble stone flatstone roofing material                                | 254 | 202     |
| 262 | 2 | Deposit    | Lay red orange deposit solid                                           | 263 | 207     |
| 263 | 2 | Deposit    | Brown deposit                                                          | 262 | 207     |
| 264 | 2 | Deposit    | Abutting clay (262) & (230) the black at the south of trench           | 264 | 262     |
| 265 | 2 | Deposit    | Black richly organic deposit in sondage north of (210)                 | 280 | 277     |
| 266 | 2 | Fill       | Back fill from 2014                                                    | 208 | 202     |
| 267 | 2 | Deposit    | Red orange clay                                                        | 254 | 205     |
| 268 | 2 | Deposit    | Black burnt layer over clay (267)                                      | 254 | 205     |
| 269 | 2 | Deposit    | Light white/beige sand                                                 | 254 | 205     |
| 270 | 2 | Deposit    | Grey brown silty same as (264)                                         | 254 | 205     |
| 271 | 2 | Deposit    | Solid brown with orange flecks                                         | 287 | 226     |
| 272 | 2 | Structure  | Demolished stones in top of (242)                                      | 242 | 202     |
| 273 | 2 | Cut        | in south east corner of trench outside (216)                           |     | 274     |
| 274 | 2 | Deposit    | Clay fill of [273]                                                     | 273 | 271     |

|     |   |            |                                                                                   |         |         |
|-----|---|------------|-----------------------------------------------------------------------------------|---------|---------|
| 275 | 2 | Cut        | For cistern and culverts to north west of trench                                  | 288     | 243     |
| 276 | 2 | Structural | Capstones on north culvert associated with cistern                                |         | 220     |
| 277 | 2 | Deposit    | Below (253) in baulk at north side = (254)?                                       | 265     | 253     |
| 278 | 2 | Structural | Rubble or strengthening material for (216)                                        | U/E     | 226     |
| 279 | 2 | VOID       | see 208                                                                           |         |         |
| 280 | 2 | Deposit    | Thick grey clay next to bottom of sondage north of (210)                          | 281     | 265     |
| 281 | 2 | Deposit    | sandy matrix at bottom of sondage north of (210)                                  | UE      | 280     |
| 282 | 2 | Deposit    | to east of base of drain below and adjacent to (258) the flags and (284) the tile |         | 260 258 |
| 283 | 2 | Structural | Upright stones abutting (258) to west                                             | 258     |         |
| 284 | 2 | Structural | Red fired tiles at bottom of drain                                                |         | 283     |
| 285 | 2 | Fill       | Top fill of fireplace in wall (203) to the north (mortar)                         | 291 292 |         |
| 286 | 2 | Fill       | of drain to east of steps in east of trench                                       |         | 308     |
| 287 | 2 | Structural | Stones of fireplace                                                               |         | 285     |
| 288 | 2 | Deposit    | (275) is cut into this orange sandy clay                                          | 289     | 220     |
| 289 | 2 | Deposit    | Soft grey in drain                                                                | 307     | 288     |
| 290 | 2 | Structure  | Stone lining of drain (Same as 307)                                               |         | 289     |
| 291 | 2 | Deposit    | Top deposit in fireplace                                                          |         | 231     |
| 292 | 2 | Deposit    | Bottom deposit in fireplace                                                       |         |         |
| 293 | 2 | Deposit    | Back of cistern cobbles yellow sand                                               |         |         |
| 294 | 2 | Deposit    | black layer above natural - west side of east wall                                | 101     | 254     |
| 295 | 2 | Deposit    | Black brown deposit above flags and mixed with clay                               |         | 258     |
| 296 | 2 | Deposit    | east of drain and below (258) may be the same as (254)                            |         | 258     |
| 297 | 2 | Structural | Stones for hearth on west side of building                                        |         |         |
| 298 | 2 | Deposit    | yellow ash layer top fill                                                         | 299     |         |
| 299 | 2 | Deposit    | Orange ash layer                                                                  |         | 298     |
| 300 | 2 | Deposit    | Orange brown ash                                                                  |         | 299     |
| 301 | 2 | Structure  | Capstones of drain south of trench under hearth (233)                             |         | 233     |
| 302 | 2 | Deposit    | Fill of drain south of trench                                                     | 301     | 233     |
| 303 | 2 | Deposit    | Fill of north culvert (splits into contexts below)                                |         | 276     |
| 304 | 2 | Deposit    | Top grey fill in north culvert. Withion (303)                                     | 310     | 276     |
| 305 | 2 | Deposit    | Orange fill in Culvert within (303)                                               | 310     | 306     |
| 306 | 2 | Deposit    | Bottom grey in culvert within (303)                                               | 311 312 | 305     |
| 307 | 2 | Structure  | Flags in west side of north end of trench west of (211)                           |         | 289 232 |
| 308 | 2 | Structural | Drain east of steps in east wall (216) covers the sides stones and base           |         | 286     |
| 309 | 2 | Deposit    | South end of east of west wall (203) mid-den area                                 |         | 227     |
| 310 | 2 | Fill       | Sandy fill within (303)                                                           | 305     | 304     |
| 311 | 2 | Fill       | Clay layer in base of drain                                                       |         | 306     |
| 312 | 2 | Deposit    | brown black mix pocket in clay layer (311) south side of culvert                  |         | 306     |

|     |   |           |                                                                            |     |     |
|-----|---|-----------|----------------------------------------------------------------------------|-----|-----|
| 313 | 2 | Deposit   | Clay beneath stones                                                        |     | 258 |
| 314 | 2 | Fill      | Thin ashy layer in north facing section in south room                      |     | 233 |
| 315 | 2 | Fill      | Orange layer in north facing section in south room                         |     | 250 |
| 316 | 2 | Fill      | Rubble layer north facing section in south room                            |     | 267 |
| 317 | 2 | Fill      | Harder grey clay north facing section in south room. Above and abuts (254) | 254 | 316 |
| 318 | 2 | Fill      | Upper fill of south culvert                                                | 319 | 219 |
| 319 | 2 | Fill      | Black fill of culvert (south)                                              | 320 | 318 |
| 320 | 2 | Fill      | Grey fill of south culvert                                                 | 307 | 319 |
| 321 | 2 | Structure | Side stones of north culvert                                               |     | 276 |
| 322 | 2 | Deposit   | Red clay to west of hearth (233)                                           | 267 | 231 |
| 323 | 2 | Structure | Side stones of south culvert                                               | 307 | 320 |
| 324 | 2 | Deposit   | Black layer in section below partition wall (210)                          | 325 | 254 |
| 325 | 2 | Deposit   | Grey clay between (324) (294)                                              | 294 | 324 |
| 326 | 2 | Deposit   | Grey clay below partition (210)                                            | 327 | 294 |
| 327 | 2 | Deposit   | darker grey clay                                                           | 328 | 326 |
| 328 | 2 | Deposit   | Orangey solid clay                                                         | U/E | 227 |

## APPENDIX II: SMALL FINDS INDEX

| SMALL FINDS INDEX |              |            |          |                                                                                   |
|-------------------|--------------|------------|----------|-----------------------------------------------------------------------------------|
| HCA<br>-B         |              | GHTL 15    |          |                                                                                   |
| SF<br>NO          | CON-<br>TEXT | TRENC<br>H | MATERIAL | OBJECT/COMMENT                                                                    |
| 1                 | U/S          | 1          | POTTERY  | MEDIEVAL POT SHERD                                                                |
| 2                 | U/S          | 1          | SILVER   | SMALL SILVER PENNY FOUND IN SPOIL FROM E EAST OF TRENCH                           |
| 3                 | U/S          | 1          | LEAD     | TOKEN 1.5CM DIAMETER EAST SIDE OF TRENCH x 2                                      |
| 4                 | U/S          | 1          | LEAD     | TOKEN 1.5CM DIAMETER FROM SPOIL HEAP                                              |
| 5                 | 104          | 1          | SILVER   | SILVER COIN 1.5CM DIAMETER 4.60M FROM EAST CORNER 13CM FROM SOUTH EDGE 77CM DEPTH |
| 6                 | 104          | 1          | CU ALLOY | BUTTON 3.5CM DIAM 4.20M FROM SE CORNER IN EAST SIDE OF TRENCH 0.6M DEPTH          |
| 7                 | 104          | 1          | LEAD     | LEAD TOKEN FROM SE CORNER OF TRENCH                                               |
| 8                 | 104          | 1          | CERAMIC  | FLOOR TILE NE CORNER OF TRENCH GLAZED                                             |
| 9                 | 104          | 1          | CU ALLOY | CU ALLOY FLOWER 5 M FROM SOUTH EDGE 5M FROM SE CORNER                             |
| 10                | 104          | 1          | SILVER?  | SILVER COIN? ABOVE RUBBLE LAYER TOWARDS NE END OF TRENCH                          |
| 11                | 104          | 1          | SILVER?  | SILVER COIN? ABOVE RUBBLE LAYER TOWARDS NE END OF TRENCH                          |
| 12                |              | 1          | LEAD?    | SEAL MACHINING LAYER NE OF TRENCH 1                                               |
| 13                | 104          | 1          | SILVER?  | SILVER COIN ABOVE RUBBLE LAYER NE OF TRENCH                                       |
| 14                | U/S          | 1          | LEAD     | SMALL FLAT PLUMB BOB?                                                             |
| 15                | U/S          | 1          | LEAD     | SMALL SEAL                                                                        |
| 16                | U/S          | 1          | LEAD     | TOKEN WITH IMAGE                                                                  |
| 17                | U/S          | 1          | SILVER?  | COIN FROM SPOIL FROM RUBBLE AREA SE CORNER                                        |
| 18                | 123          | 1          | CU ALLOY | SPIKED BIT OF SPUR                                                                |
| 19                | U/S          | 1          | LEAD     | TOKEN FROM SE CORNER OF TRENCH                                                    |
| 20                | 122          | 1          | CU ALLOY | STRAP END WITH 3 HOLES                                                            |
| 21                | 113          | 1          | TILE     | COMPLETE DECORATED TILE JUST SOUTH OF NORTH CHAPTER HOUSE WALL                    |
| 22                |              | 1          | LEAD     | LEAD TOKEN                                                                        |
| 23                | U/S          | 1          | LEAD     | MUSKET BALL SPOIL HEAP                                                            |
| 24                | U/S          | 1          | LEAD     | TOKEN EX SPOIL HEAP                                                               |
| 25                | U/S          | 1          | LEAD     | TOKEN EX SPOIL HEAP                                                               |
| 26                | U/S          | 1          | LEAD     | TOKEN EX SPOIL HEAP                                                               |
| 27                | U/S          | 1          | CU ALLOY | STUD                                                                              |
| 28                | U/S          | 1          | LEAD     | LEAD TOKEN EX SPOIL HEAP                                                          |
| 29                | U/S          | 1          | LEAD     | LEAD TOKEN EX SPOIL HEAP                                                          |
| 30                | U/S          | 1          | LEAD     | LEAD TOKEN EX SPOIL HEAP                                                          |
| 31                | U/S          | 1          | LEAD     | LEAD TOKEN EX SPOIL HEAP                                                          |
| 32                | U/S          | 1          | LEAD     | LARGE LEAD TOKEN EX TRENCH                                                        |
| 33                | 140          | 1          | CU ALLOY | SHROUD PIN SLOT IN SOUTH END OF EAST SIDE OF EAST RANGE WALL BELOW CUT [118]      |
| 34                | U/S          | 1          | LEAD     | POSSIBLE LEAD SEAL FROM SPOIL HEAP                                                |
| 35                | U/S          | 1          | SILVER?  | COIN EX SPOIL HEAP                                                                |
| 36                | U/S          | 1          | SILVER?  | COIN EX SPOIL HEAP                                                                |

|    |         |   |              |                                                                        |
|----|---------|---|--------------|------------------------------------------------------------------------|
| 37 | U/S     | 1 | LEAD         | WEIGHT WITH RING AT TOP                                                |
| 38 | U/S     | 1 | LEAD         | LEAD TOKEN EX SPOIL HEAP                                               |
| 39 | U/S     | 1 | LEAD         | LEAD TOKEN EX SPOIL HEAP                                               |
| 40 | U/S     | 1 | LEAD         | LEAD TOKEN EX SPOIL HEAP                                               |
| 41 | U/S     | 1 | LEAD         | SEAL? EX SPOIL                                                         |
| 42 | U/S     | 1 | LEAD         | SEAL? EX SPOIL                                                         |
| 43 | U/S     | 1 | CU ALLOY     | RING SECTION EX SPOIL HEP                                              |
| 44 | U/S     | 1 | CU ALLOY     | STUD EX SPOIL                                                          |
| 45 | U/S     | 1 | SILVER       | COIN EX SPOIL HEAP                                                     |
| 46 | U/S     | 1 | SILVER       | COIN EX SPOIL HEAP                                                     |
| 47 | U/S     | 1 | LEAD         | SEAL EX SPOIL HEAP                                                     |
| 48 | U/S     | 1 | LEAD         | SEAL EX SPOIL HEAP                                                     |
| 49 | U/S     | 1 | LEAD         | SEAL EX SPOIL HEAP                                                     |
| 50 | U/S     | 1 | CU ALLOY     | 2 ARTEFACTS METAL DETECTOR EX SPOIL                                    |
| 51 | 148     | 1 | CU ALLOY     | BOOK STRAP BELOW 104                                                   |
| 52 | 149     | 1 | CU ALLOY     | BOOK STRAP? BELOW 102                                                  |
| 53 | 120     | 1 | CU ALLOY     | SQUARE ARETFECT PLATE WITH WITH HOLE IN EACH CORNER FOLDED UP          |
| 54 | U/S     | 1 | SILVER       | COIN SPOIL HEAP                                                        |
| 55 | U/S     | 1 | SILVER       | COIN SPOIL HEAP                                                        |
| 56 | U/S     | 1 | LEAD         | TOKEN SPOIL HEAP                                                       |
| 57 | 102     | 1 | LEAD         | WEIGHT SITTING IN 102 ON SURFACE OF 183                                |
| 58 | 181     | 1 | CU ALLOY     | COIN?                                                                  |
| 59 | 102     | 1 | CU ALLOY     | COLLAR?                                                                |
| 60 | 102     | 1 | LEAD         | TOKEN FILL OF DRAIN NEXT TO SF# 61                                     |
| 61 | 102     | 1 | LEAD         | TOKEN FILL OF DRAIN NEXT TO SF# 60                                     |
| 62 | 182     | 1 | LEAD         | TOKEN MORTAR ATTACHED FOUND IN SPOIL FROM 182                          |
| 63 | U/S     | 1 | LEAD         | TOKEN STAG/FLE?                                                        |
| 64 | U/S     | 1 | LEAD         | MUSKET BALL                                                            |
| 65 | U/S     | 1 | LEAD         | SEAL OR TOKEN NO VISIBLE MARKINGS                                      |
| 66 | U/S     | 1 | LEAD         | CLASP WITH LEATHER                                                     |
| 67 | 124     | 1 | LEAD         | SEL TOKEN                                                              |
| 68 | 122     | 1 | LEAD         | TOKEN NEAR TO OTHER TOKEN IN THIS CONTEXT FILL OF DRAIN AND SHROUD PIN |
| 69 | VOID    |   |              |                                                                        |
| 70 | VOID    |   |              |                                                                        |
| 71 | U/S     | 1 | LEAD         | TOKEN                                                                  |
| 72 | 122     | 1 | LEAD         | TOKEN FILL OF DRAIN                                                    |
| 73 | U/S     | 1 | LEAD         | TOKEN SE CORNER                                                        |
| 74 | U/S     | 1 | LEAD         | TOKEN SE CORNER                                                        |
| 75 | U/S     | 1 | LEAD         | TOKEN SE CORNER                                                        |
| 76 | 102 122 | 1 | LEAD/PEW-TER | PILGRIMS BROOCH                                                        |
| 77 | U/S     | 1 | PEWTER?      | SMALL SPOON                                                            |
| 78 | U/S     | 1 | METAL        | ARTEFACT                                                               |
| 79 | VOID    |   |              |                                                                        |
| 80 | U/S     | 1 | METAL        | NEEDLE?                                                                |

|     |     |   |          |                                 |
|-----|-----|---|----------|---------------------------------|
| 81  | U/S |   | SILVER   | COIN                            |
| 82  | U/S | 1 | LEAD     | SEAL? EX SPOIL                  |
| 83  | U/S | 1 | LEAD     | TOKEN                           |
| 84  | U/S | 1 | LEAD     | TOKEN                           |
| 85  |     | 2 | STONE    | GRAFFITIED STONE PART OF PILLAR |
| 86  | 205 | 2 | CU ALLOY | PIN?                            |
| 87  | 413 | 1 | SILVER   | COIN                            |
| 88  | U/S | 1 | SILVER   | COIN                            |
| 89  | 205 | 2 | POTTERY  | BELAMINE POT                    |
| 90  | U/S | 2 | SILVER   | COIN                            |
| 91  | U/S | 1 | LEAD     | SEALS?                          |
| 92  | U/S | 1 | SILVER   | HALF COIN                       |
| 93  | U/S | 1 | LEAD     | TOKEN                           |
| 94  | U/S | 1 | SILVER   | COIN                            |
| 95  | 121 | 1 | LEAD     | SEAL?                           |
| 96  | U/S | 1 | CU ALLOY | COIN                            |
| 97  | U/S | 1 | LEAD     | TOKEN                           |
| 98  | U/S | 1 | LEAD     | TOKEN                           |
| 99  | U/S | 1 | SILVER   | FARTHING                        |
| 100 | U/S | 2 | CU ALLOY | COIN                            |
| 101 | U/S | 2 | LEAD     | SEAL                            |
| 102 | 242 | 2 | CU ALLOY | ROLLED SMALL TUBE               |
| 103 | 242 | 2 | CU ALLOY | PUNCHED CU ALLOY ARTEFACT       |
| 104 | U/S | 1 | LEAD     | SEALS?                          |
| 105 | U/S | 2 | LEAD     | WEIGHT                          |
| 106 | U/S | 1 | PEWTER?  | SPOON?                          |
| 107 | 208 | 2 | FLINT    | FIRE STRIKER FLINT              |
| 108 | 208 | 2 | IRON     | CHISEL                          |
| 109 | 257 | 2 | POTTERY  | CURFEW?                         |
| 110 | U/S | 1 | TILE     | FLOOR TILE                      |
| 111 | U/S | 1 | BRONZE   | PIN                             |
| 112 | 226 | 2 | PLASTER  | PLASTER                         |
| 113 | U/S | 2 | CU ALLOY | COIN                            |
| 114 | U/S | 1 | CU ALLOY | BOOK CLASP                      |
| 115 | U/S | 1 | LEAD     | TOKEN                           |
| 116 | U/S | 1 | SILVER   | COIN                            |
| 117 | U/S | 1 | SILVER   | COIN                            |
| 118 | U/S | 1 | CU ALLOY | BOOK CLASP                      |
| 119 | U/S | 1 | LEAD     | SEAL?                           |
| 120 | 205 | 2 | PLASTER  | PLASTER                         |
| 121 | U/S | 1 | CU ALLOY |                                 |
| 122 | U/S | 1 | LEAD     | TOKEN                           |
| 123 | U/S | 1 | LEAD?    | TOKEN? COIN (ID KR 20 NOV)      |
| 124 | U/S | 1 | LEAD     | TOKEN?                          |
| 125 | U/S | 1 | LEAD     | TOKEN                           |

|     |     |   |          |                                                                          |
|-----|-----|---|----------|--------------------------------------------------------------------------|
| 126 | U/S | 1 | CU ALLOY | BOOK CLASP                                                               |
| 127 | 242 | 2 | STONE    | WHETSTONE                                                                |
| 128 | 122 | 2 | SILVER   | COIN                                                                     |
| 129 | 227 | 2 | LEAD     | BADGE?                                                                   |
| 130 | 257 | 2 | POTTERY  | POTTERY SHERD                                                            |
| 131 | U/S | 1 | LEAD     | TOKEN                                                                    |
| 132 | 227 | 2 | LEAD     | WEIGHT                                                                   |
| 133 | U/S | 1 | LEAD     | TOKEN                                                                    |
| 134 | U/S | 1 | IRON     | KEY                                                                      |
| 135 | U/S | 1 | LEAD     | POTTERY MEND                                                             |
| 136 | U/S | 1 | LEAD     | PLUMB BOB                                                                |
| 137 | U/S | 1 | LEAD     | LEAF SHAPED OBJECT                                                       |
| 138 | U/S | 2 | POTTERY  | CISTERCIAN POT?                                                          |
| 139 | U/S | 2 | LEAD     | COIN/TOKEN?                                                              |
| 140 | U/S | 2 | IRON     | KEY                                                                      |
| 141 | U/S | 2 | CU ALLOY | THIMBLE                                                                  |
| 142 | 111 | 1 | PLASTER  | PAINTED WALL PLASTER WITH LINES                                          |
| 143 | 245 | 2 | LEAD     | SECTIONS OF LEAD PIPE, 1 WITH COLLAR                                     |
| 144 | 242 | 2 | STONE    | BOSS                                                                     |
| 145 | U/S | 2 | METAL    | HORSE HARNESS PIECE                                                      |
| 146 | U/S | 1 | LEAD     | SEAL?                                                                    |
| 147 | U/S | 1 | LEAD     | BUCKLE?                                                                  |
| 148 | U/S | 1 | LEAD     | SPOON?                                                                   |
| 149 | U/S | 1 | LEAD     | HALF A TOKEN                                                             |
| 150 | U/S | 1 | LEAD     | TOKEN EAST SIDE OF TRENCH (FOUND WITH SF#3 IN BOX)                       |
| 151 | 134 |   | AG?      | BROOCH PIN? EX RETENT                                                    |
| 152 | U/S | 1 | CU ALLOY | WITH GOLD GILD REMAINING. STUD                                           |
| 153 | U/S | 1 | LEAD     | MUSKET BALLS X 3 2X12MM 1X 7MM                                           |
| 154 | U/S | 1 | LEAD     | PIPE FIXING L=28MM D (HOLE) =13MM                                        |
| 155 | U/S | 1 | LEAD     | PLUMBOB                                                                  |
| 156 | U/S | 1 | CU ALLOY | BUTTONSX2 STUD LIKE WITH THEIR ATTACHMENTS                               |
| 157 | U/S | 1 | CU ALLOY | BUTTON FLAT ROUND WITH 4 HOLES                                           |
| 158 | U/S | 1 | CU ALLOY | PEIRCED ROUND DISC/STUD                                                  |
| 159 | U/S | 1 | CU ALLOY | PIERCED ROUND DISC                                                       |
| 160 | U/S | 1 | CU ALLOY | SQUARE ARTEFACT WITH CENTRAL PIERCING                                    |
| 161 | U/S | 1 | CU ALLOY | PIERCED DISC. MAY HAVE BEEN 2 PIERCINGS, ONE APPEARS TO BE DAMAGED       |
| 162 | U/S | 1 | CU ALLOY | RECTANGUALR ARTEFACT - BUCKLE/CLASP? LOOKS TO BE CUT FROM SOMETHING ELSE |

### APPENDIX III: ENVIRONMENTAL SAMPLE INDEX

| SAMPLE NO | CONTEXT NO | TYPE OF SAMPLE | NO OF BAGS | INITIALS | DATE     |
|-----------|------------|----------------|------------|----------|----------|
| 1         | 207        | BULK           | 4          | PS       | 24.09.15 |
| 2         | 220        | BULK           | 1          | JAS      | 24.09.15 |
| 3         | 230        | BULK           | 2          | JAS      | 24.09.10 |
| 4         | 250        | BULK           | 2          | JAS      | 30.09.15 |
| 5         | 134        | BULK           | 7          | PS       | 30.09.15 |
| 6         | 265        | BULK           | 1          | PS       | 02.10.15 |
| 7         | 286        | BULK           | 4          | PS       | 04.10.15 |
| 8         | 291        | BULK           | 2          | PS/RS    | 04.10.15 |
| 9         | 292        | BULK           | 1          |          |          |
| 10        | 250        | BULK           | 3          | JAS      | 06.10.15 |
| 11        | 231        | BULK           | 3          | JAS      | 06.10.15 |
| 12        | 289        | BULK           | 2          | JAS      | 06.10.15 |
| 13        | 265        | BULK           | 3          | JAS      | 07.10.15 |
| 14        | 298-300    | BULK           | 1          | KHM      | 07.10.15 |
| 15        | 304        | BULK           |            | JS       | 08.10.15 |
| 16        | 305        | BULK           |            | JS       | 08.10.15 |
| 17        | 306        | BULK           |            | JS       | 08.10.15 |
| 18        | 302        | BULK           |            | JS       | 08.10.15 |
| 19        | 310        | BULK           |            | JS       | 08.10.15 |
| 20        | 312        | BULK           | 1          | JAS      | 08.10.15 |
| 21        | 250        | BULK           | 2          | JA       | 09.10.15 |
| 22        | 250        | BULK           | 1          | JA       | 09.10.15 |
| 23        | 315        | BULK           | 2          | JA       | 09.10.15 |
| 24        | 231        | BULK           | 1          | JA       | 09.10.15 |
| 25        | 207        | BULK           | 1          | JA       | 09.10.15 |
| 26        | 319        | BULK           | 1          | RA       | 09.10.15 |
| 27        | 320        | BULK           | 1          | RA       | 09.10.15 |
| 28        | 318        | BULK           | 1          | BG       | 09.10.15 |
| 29        | 322        | BULK           |            | JA       | 09.10.15 |
| 30        | 233        | BULK           |            | JA       | 09.10.15 |
| 31        | 267        | BULK           |            | JS       | 09.10.15 |
| 32        | 319        | BULK           | 1          | RG       | 09.10.15 |
| 33        | 314        | BULK           | 1          | JA       | 09.10.15 |
| 34        | 316        | BULK           |            | JA/JS    | 09.10.15 |
| 35        | 320        | BULK           | 1          | BG       | 09.10.15 |
| 36        | 259        | BULK           |            | JS       | 09.10.15 |
| 37        | 317        | BULK           |            | JA       | 09.10.15 |
| 38        | 260        | BULK           |            | JS       | 09.10.15 |
| 39        | 255        | BULK           | 1          | JAS      | 12.10.15 |
| 40        | 294        | BULK           | 1          | MG       | 13.10.15 |
| 41        | 324        | BULK           | 1          | MG       | 13.10.15 |
| 42        | 327        | BULK           | 1          | MG       | 13.10.15 |

## APPENDIX IV

### WORKED STONE QUANTIFICATION TABLE

| Trench | Context | Worked stone |  | With mortar |  | With white plaster | With white plaster | Mortar and plaster | With plaster | Shiny coating | Miscellaneous | Small Finds         | Total |
|--------|---------|--------------|--|-------------|--|--------------------|--------------------|--------------------|--------------|---------------|---------------|---------------------|-------|
| 1      | 104     | 9            |  | 1           |  |                    |                    |                    |              |               |               |                     | 10    |
| 1      | 108     | 7            |  | 1           |  | 1                  |                    |                    |              |               |               |                     | 9     |
| 1      | 105     | 19           |  |             |  |                    |                    |                    |              |               |               |                     | 19    |
| 1      | 110     |              |  |             |  | 1                  |                    |                    | 1            |               |               |                     | 2     |
| 1      | 111     | 56           |  |             |  |                    |                    |                    |              |               |               |                     | 56    |
| 1      | 112     | 30           |  |             |  | 1                  |                    |                    |              |               |               |                     | 31    |
| 1      | 119     | 1            |  |             |  |                    |                    |                    |              |               |               |                     | 1     |
| 1      | 120     | 2            |  |             |  |                    |                    |                    |              |               |               |                     | 2     |
| 1      | 122     |              |  |             |  | 1                  |                    |                    |              |               |               |                     | 1     |
| 1      | 141     | 1            |  |             |  |                    |                    |                    |              |               |               |                     | 1     |
| 1      | 149     | 1            |  |             |  |                    |                    |                    |              |               |               |                     | 1     |
| 1      | 161     |              |  |             |  |                    |                    |                    |              | 1             |               |                     | 1     |
| 1      | 162     | 8            |  |             |  |                    |                    |                    |              |               |               |                     | 8     |
| 1      | 174     |              |  |             |  | 1                  |                    |                    |              |               |               |                     | 1     |
| 1      | 182     | 1            |  |             |  |                    |                    |                    |              |               |               |                     | 1     |
| 1      | 197     | 1            |  |             |  |                    |                    |                    |              |               |               |                     | 1     |
| 2      | 205     |              |  |             |  |                    |                    |                    |              |               |               | 1(sun in splendour) | 1     |
| 2      | 208     | 1            |  |             |  |                    |                    |                    |              |               |               |                     | 1     |
| 2      | 213     |              |  |             |  |                    |                    |                    |              |               | 1 (cobble)    |                     | 1     |
| 2      | 220     | 4            |  |             |  |                    |                    |                    |              |               |               |                     | 4     |

|          |            |          |  |          |  |          |  |          |  |  |  |  |  |  |                               |            |
|----------|------------|----------|--|----------|--|----------|--|----------|--|--|--|--|--|--|-------------------------------|------------|
| <b>2</b> | <b>228</b> | <b>2</b> |  |          |  |          |  |          |  |  |  |  |  |  |                               | <b>2</b>   |
| <b>2</b> | <b>242</b> | <b>1</b> |  |          |  |          |  |          |  |  |  |  |  |  | <b>1(cut<br/>marks?<br/>)</b> | <b>2</b>   |
| <b>2</b> | <b>u/s</b> |          |  |          |  |          |  |          |  |  |  |  |  |  | <b>1(carve<br/>d boss)</b>    | <b>1</b>   |
|          | <b>u/s</b> | <b>8</b> |  | <b>1</b> |  | <b>1</b> |  | <b>1</b> |  |  |  |  |  |  |                               | <b>11</b>  |
|          |            |          |  |          |  |          |  |          |  |  |  |  |  |  | <b>To<br/>tal<br/>:</b>       | <b>168</b> |

## APPENDIX V

### MORTAR, WALL PLASTER AND CBM QUATIFICATION TABLE

| Trench | Context    | Mortar |  | Wall<br>plaster | CBM         |  | Small<br>finds        | Total |
|--------|------------|--------|--|-----------------|-------------|--|-----------------------|-------|
| 1      | 104        | 10     |  |                 | 1           |  |                       | 11    |
| 1      | 108        | 1      |  |                 | 1           |  |                       | 2     |
| 1      | 111        | 6      |  |                 | 2           |  |                       | 8     |
| 1      | 122        | 4      |  |                 |             |  |                       | 4     |
| 1      | 124        |        |  |                 | 1           |  |                       | 1     |
| 1      | 140        |        |  | 1               |             |  |                       | 1     |
| 1      | 145        |        |  | 1               |             |  |                       | 1     |
| 1      | 149        | 12     |  |                 |             |  |                       | 12    |
| 1      | 189        | 4      |  |                 |             |  |                       | 4     |
| 1      | 2008trench |        |  |                 | 6           |  |                       | 6     |
| 1      | u/s        |        |  | 1               |             |  |                       | 1     |
| 2      | 202        | 5      |  |                 |             |  |                       | 5     |
| 2      | 205        |        |  |                 |             |  | 1(painted<br>plaster) | 1     |
| 2      | 208        | 2      |  |                 |             |  |                       | 2     |
| 2      | 257        | 1      |  |                 | 3           |  |                       | 4     |
| 2      | 318        | 2      |  |                 |             |  |                       | 2     |
| 2      | 225        |        |  |                 | 1           |  |                       | 1     |
| 2      | 226        |        |  |                 |             |  | 1(painted<br>plaster) | 1     |
| 2      | 227        |        |  |                 | 2 (1 thing) |  |                       | 2     |
| 2      | 228        |        |  |                 | 2           |  |                       | 2     |
| 2      | 287        |        |  |                 | 1           |  |                       | 1     |
| 2      | 288        |        |  |                 | 11          |  |                       | 11    |

|          |            |  |  |  |  |          |  |  |                     |           |
|----------|------------|--|--|--|--|----------|--|--|---------------------|-----------|
| <b>2</b> | <b>289</b> |  |  |  |  | <b>1</b> |  |  |                     | <b>1</b>  |
|          |            |  |  |  |  |          |  |  | <b>To-<br/>tal:</b> | <b>84</b> |

## APPENDIX VI

### COAL, CHARCOAL AND COKE QUANTIFICATION TABLE

| Trench | Context    | Coal |  | Char-coal |  | Coke |  |  |  | Small Finds | Total |
|--------|------------|------|--|-----------|--|------|--|--|--|-------------|-------|
| 1      | 102        | 1    |  | 8         |  |      |  |  |  |             | 9     |
| 1      | 104        | 1    |  | 1         |  |      |  |  |  |             | 2     |
| 1      | 108        |      |  | 1         |  |      |  |  |  |             | 1     |
| 1      | 112        | 1    |  |           |  |      |  |  |  |             | 1     |
| 1      | 120        | 8    |  |           |  | 2    |  |  |  |             | 10    |
| 1      | 149        |      |  | 3         |  |      |  |  |  |             | 3     |
| 1      | 161        | 6    |  |           |  |      |  |  |  |             | 6     |
| 1      | 175        | 11   |  |           |  |      |  |  |  |             | 11    |
| 1      | 180        | 1    |  |           |  |      |  |  |  |             | 1     |
| 1      | 2008trench | 3    |  |           |  |      |  |  |  |             | 3     |
| 2      | 202        | 2    |  |           |  |      |  |  |  |             | 2     |
| 2      | 205        | 25   |  | 1         |  |      |  |  |  |             | 26    |
| 2      | 206        | 3    |  |           |  |      |  |  |  |             | 3     |
| 2      | 207        | 1    |  |           |  |      |  |  |  |             | 1     |
| 2      | 220        | 12   |  |           |  |      |  |  |  |             | 12    |
| 2      | 225        | 20   |  |           |  |      |  |  |  |             | 20    |
| 2      | 226        | 3    |  |           |  |      |  |  |  |             | 3     |
| 2      | 228        | 4    |  | 1         |  |      |  |  |  |             | 2     |
| 2      | 234        |      |  | 10        |  |      |  |  |  |             | 10    |
| 2      | 242        | 8    |  |           |  |      |  |  |  |             | 8     |
| 2      | 254        | 3    |  |           |  |      |  |  |  |             | 3     |
| 2      | 257        | 37   |  |           |  |      |  |  |  |             | 37    |

|          |            |          |  |          |  |  |  |  |  |                     |            |
|----------|------------|----------|--|----------|--|--|--|--|--|---------------------|------------|
| <b>2</b> | <b>270</b> | <b>5</b> |  |          |  |  |  |  |  |                     | <b>5</b>   |
| <b>2</b> | <b>288</b> | <b>4</b> |  |          |  |  |  |  |  |                     | <b>4</b>   |
| <b>2</b> | <b>289</b> | <b>2</b> |  |          |  |  |  |  |  |                     | <b>2</b>   |
| <b>2</b> | <b>296</b> | <b>1</b> |  |          |  |  |  |  |  |                     | <b>1</b>   |
| <b>2</b> | <b>302</b> | <b>3</b> |  |          |  |  |  |  |  |                     | <b>3</b>   |
| <b>2</b> | <b>318</b> |          |  | <b>3</b> |  |  |  |  |  |                     | <b>3</b>   |
| <b>2</b> | <b>227</b> | <b>8</b> |  |          |  |  |  |  |  |                     | <b>8</b>   |
|          |            |          |  |          |  |  |  |  |  | <b>To-<br/>tal:</b> | <b>200</b> |

## APPENDIX VII

**ROOF TILE (TILE AND SANDSTONE) QUANTIFICATION TABLE**

| <b>Trench</b> | <b>Context</b> | <b>Miscellaneous tile pieces</b> |  | <b>With holes</b>    |  | <b>With lugs</b> |  | <b>Holes and lugs</b> |  | <b>Sandstone</b> | <b>Sandstone with hole</b> |  | <b>Unspecified additions</b> |  | <b>Small Finds</b> |  | <b>Total</b> |
|---------------|----------------|----------------------------------|--|----------------------|--|------------------|--|-----------------------|--|------------------|----------------------------|--|------------------------------|--|--------------------|--|--------------|
| <b>1</b>      | <b>104</b>     | <b>9</b>                         |  |                      |  |                  |  |                       |  |                  |                            |  |                              |  |                    |  | <b>9</b>     |
| <b>1</b>      | <b>111</b>     | <b>2</b>                         |  |                      |  |                  |  |                       |  |                  |                            |  |                              |  |                    |  | <b>2</b>     |
| <b>1</b>      | <b>112</b>     | <b>3</b>                         |  |                      |  |                  |  |                       |  |                  |                            |  | <b>1</b>                     |  |                    |  | <b>4</b>     |
| <b>1</b>      | <b>119</b>     | <b>1</b>                         |  |                      |  |                  |  |                       |  |                  |                            |  |                              |  |                    |  | <b>1</b>     |
| <b>1</b>      | <b>120</b>     | <b>8</b>                         |  | <b>1</b>             |  |                  |  |                       |  |                  |                            |  |                              |  |                    |  | <b>9</b>     |
| <b>1</b>      | <b>188</b>     | <b>2</b>                         |  |                      |  |                  |  |                       |  |                  |                            |  |                              |  |                    |  | <b>2</b>     |
| <b>2</b>      | <b>202</b>     | <b>8</b>                         |  | <b>3</b>             |  |                  |  | <b>1</b>              |  |                  |                            |  | <b>1 (metal?)</b>            |  |                    |  | <b>13</b>    |
| <b>2</b>      | <b>205</b>     | <b>14</b>                        |  | <b>3</b>             |  | <b>10</b>        |  |                       |  | <b>2</b>         | <b>1</b>                   |  |                              |  |                    |  | <b>30</b>    |
| <b>2</b>      | <b>206</b>     | <b>2</b>                         |  |                      |  | <b>3</b>         |  |                       |  |                  |                            |  |                              |  |                    |  | <b>5</b>     |
| <b>2</b>      | <b>207</b>     | <b>5</b>                         |  |                      |  |                  |  |                       |  |                  |                            |  |                              |  |                    |  | <b>5</b>     |
| <b>2</b>      | <b>208</b>     | <b>4</b>                         |  |                      |  | <b>2</b>         |  |                       |  |                  |                            |  |                              |  |                    |  | <b>6</b>     |
| <b>2</b>      | <b>213</b>     | <b>1</b>                         |  | <b>2</b>             |  |                  |  |                       |  |                  |                            |  | <b>1 (in hole)</b>           |  |                    |  | <b>4</b>     |
| <b>2</b>      | <b>220</b>     | <b>6</b>                         |  | <b>1</b>             |  | <b>1</b>         |  |                       |  |                  | <b>2</b>                   |  |                              |  |                    |  | <b>10</b>    |
| <b>2</b>      | <b>223</b>     | <b>1</b>                         |  |                      |  | <b>1</b>         |  |                       |  |                  |                            |  |                              |  |                    |  | <b>2</b>     |
| <b>2</b>      | <b>224</b>     | <b>9</b>                         |  |                      |  | <b>2</b>         |  |                       |  |                  |                            |  |                              |  |                    |  | <b>11</b>    |
| <b>2</b>      | <b>225</b>     | <b>10</b><br><b>2</b>            |  | <b>1</b><br><b>2</b> |  | <b>14</b>        |  | <b>1</b>              |  |                  |                            |  |                              |  |                    |  | <b>129</b>   |
| <b>2</b>      | <b>226</b>     | <b>15</b>                        |  |                      |  | <b>2</b>         |  |                       |  | <b>9</b>         | <b>1</b>                   |  |                              |  |                    |  | <b>27</b>    |
| <b>2</b>      | <b>227</b>     | <b>3</b>                         |  | <b>1</b>             |  | <b>1</b>         |  |                       |  |                  | <b>2</b>                   |  |                              |  |                    |  | <b>7</b>     |
| <b>2</b>      | <b>228</b>     | <b>26</b>                        |  | <b>3</b>             |  | <b>1</b>         |  | <b>1</b>              |  |                  | <b>2</b>                   |  |                              |  |                    |  | <b>33</b>    |
| <b>2</b>      | <b>230</b>     | <b>1</b>                         |  |                      |  | <b>1</b>         |  |                       |  |                  |                            |  |                              |  |                    |  | <b>2</b>     |

|   |     |    |  |   |  |   |  |   |   |  |                   |              |  |  |               |            |
|---|-----|----|--|---|--|---|--|---|---|--|-------------------|--------------|--|--|---------------|------------|
| 2 | 232 | 1  |  |   |  |   |  |   |   |  |                   | 1<br>(glaze) |  |  |               | 2          |
| 2 | 234 | 6  |  |   |  | 1 |  |   |   |  |                   |              |  |  |               | 7          |
| 2 | 237 |    |  |   |  | 1 |  |   |   |  |                   |              |  |  |               | 1          |
| 2 | 242 | 8  |  |   |  |   |  |   | 2 |  |                   |              |  |  |               | 10         |
| 2 | 254 | 6  |  | 2 |  | 4 |  |   |   |  |                   |              |  |  |               | 8          |
| 2 | 257 | 10 |  | 4 |  |   |  | 1 |   |  | 2 (1x whole tile) |              |  |  |               | 21         |
| 2 | 259 | 4  |  | 1 |  |   |  |   |   |  |                   | 1<br>(glaze) |  |  |               | 6          |
| 2 | 270 |    |  | 1 |  |   |  |   |   |  |                   |              |  |  |               | 1          |
| 2 | 271 | 4  |  |   |  |   |  |   |   |  |                   |              |  |  |               | 4          |
| 2 | 285 |    |  |   |  |   |  |   | 2 |  |                   |              |  |  |               | 2          |
| 2 | 287 |    |  |   |  | 1 |  |   |   |  |                   |              |  |  |               | 1          |
| 2 | 288 | 11 |  | 2 |  |   |  |   |   |  |                   |              |  |  |               | 13         |
| 2 | 289 | 4  |  |   |  | 1 |  |   |   |  |                   |              |  |  |               | 5          |
| 2 | 296 | 2  |  | 3 |  | 1 |  | 1 |   |  |                   |              |  |  |               | 7          |
| 2 | 302 | 4  |  |   |  | 1 |  |   |   |  |                   |              |  |  |               | 5          |
| 2 | 309 | 3  |  |   |  |   |  |   |   |  |                   |              |  |  |               | 3          |
| 2 | 313 | 1  |  |   |  |   |  |   |   |  |                   |              |  |  |               | 1          |
| 2 | 319 | 4  |  |   |  |   |  |   | 2 |  |                   |              |  |  |               | 6          |
|   |     |    |  |   |  |   |  |   |   |  |                   |              |  |  | <b>Total:</b> | <b>414</b> |

## APPENDIX VIII

### UNGLAZED FLOOR TILE QUATIFICATION TABLE

| Trench | Context | Un-glazed |  | Possible un-glazed |  | Sand-stone |   |  |  |  |        | Total |
|--------|---------|-----------|--|--------------------|--|------------|---|--|--|--|--------|-------|
| 1      | 111     | 2         |  |                    |  |            |   |  |  |  |        | 2     |
| 1      | 112     | 10        |  |                    |  |            | 5 |  |  |  |        | 15    |
| 1      | 120     |           |  |                    |  |            | 2 |  |  |  |        | 2     |
| 1      | 124     | 4         |  |                    |  |            |   |  |  |  |        | 4     |
| 1      | 162     | 6         |  |                    |  |            |   |  |  |  |        | 6     |
| 1      | 174     | 12        |  |                    |  |            |   |  |  |  |        | 12    |
| 1      | 175     | 1         |  |                    |  |            |   |  |  |  |        | 1     |
| 1      | 182     | 3         |  |                    |  |            |   |  |  |  |        | 3     |
| 2      | 202     |           |  | 1                  |  |            |   |  |  |  |        | 1     |
| 2      | 205     | 3         |  |                    |  |            |   |  |  |  |        | 3     |
| 2      | 220     | 1         |  |                    |  |            |   |  |  |  |        | 1     |
| 2      | 225     | 2         |  |                    |  |            |   |  |  |  |        | 2     |
| 2      | 230     | 1         |  |                    |  |            |   |  |  |  |        | 1     |
| 2      | 242     |           |  |                    |  |            | 1 |  |  |  |        | 1     |
| 2      | 288     | 1         |  |                    |  |            |   |  |  |  |        | 1     |
| 2      | 289     | 1         |  |                    |  |            |   |  |  |  |        | 1     |
| 2      | 296     | 1         |  |                    |  |            |   |  |  |  |        | 1     |
|        | u/s     | 1         |  |                    |  |            |   |  |  |  |        | 1     |
|        |         |           |  |                    |  |            |   |  |  |  | Total: | 58    |

## APPENDIX IX

### GLAZED FLOOR TILE QUATIFICATION TABLE

| Trench | Context | Glazed |  | Patterned and glazed |  |  | Scored |  | Glazed complete tile |  |  |  |  |  |  | Small Finds | Total |
|--------|---------|--------|--|----------------------|--|--|--------|--|----------------------|--|--|--|--|--|--|-------------|-------|
| 1      | 104     | 4      |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 4     |
| 1      | 108     | 4      |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 4     |
| 1      | 105     | 25     |  |                      |  |  |        |  |                      |  |  |  |  |  |  | 4           | 29    |
| 1      | 111     | 46     |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 46    |
| 1      | 112     | 162    |  | 5                    |  |  | 4      |  |                      |  |  |  |  |  |  |             | 171   |
| 1      | 113     |        |  |                      |  |  |        |  |                      |  |  |  |  |  |  | 1           | 1     |
| 1      | 122     | 1      |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 1     |
| 1      | 143     | 3      |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 3     |
| 1      | 162     | 66     |  | 3                    |  |  | 1      |  | 1                    |  |  |  |  |  |  |             | 71    |
| 1      | 174     | 15     |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 17    |
| 1      | 182     | 46     |  |                      |  |  | 1      |  |                      |  |  |  |  |  |  |             | 47    |
| 2      | 205     | 1      |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 1     |
| 2      | 227     | 2      |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 2     |
| 2      | 296     | 1      |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 1     |
| 1      | u/s     | 2      |  |                      |  |  |        |  |                      |  |  |  |  |  |  | 1           | 3     |
|        | u/s     | 1      |  |                      |  |  |        |  |                      |  |  |  |  |  |  |             | 1     |
|        |         |        |  |                      |  |  |        |  |                      |  |  |  |  |  |  | Total :     | 402   |

## APPENDIX X

### METAL QUANTIFICATION TABLE

| Trench | Context    | Lead | Window cane | Tin? | Cu Alloy | Meta<br>l<br>frag-<br>ment<br>s | Metal<br>ob-<br>jects | Nails (Fe) | Nail<br>with<br>lead | Post<br>medieval | Small<br>Finds | Total |
|--------|------------|------|-------------|------|----------|---------------------------------|-----------------------|------------|----------------------|------------------|----------------|-------|
| 1      | 102        |      |             |      |          |                                 |                       |            |                      |                  | 1              | 1     |
| 1      | 104        |      |             |      |          |                                 |                       |            |                      |                  | 2              | 2     |
| 1      | 108        | 1    |             |      |          |                                 |                       |            |                      | 2(geology)       |                | 3     |
| 1      | 110        | 1    |             |      |          |                                 |                       |            |                      |                  |                | 1     |
| 1      | 122        | 5    |             |      |          |                                 |                       |            |                      |                  | 2              | 7     |
| 1      | 123        |      |             |      |          |                                 |                       |            |                      |                  | 1              | 1     |
| 1      | 126        |      |             |      |          |                                 |                       | 1          |                      |                  |                | 1     |
| 1      | 145        |      |             |      |          |                                 |                       |            |                      |                  | 1              | 1     |
| 1      | 148        |      |             |      |          |                                 |                       |            |                      |                  | 1              | 1     |
| 1      | 149        |      |             |      |          |                                 |                       |            |                      | 1(clay pipe)     | 1              | 2     |
| 1      | 161        |      |             |      |          | 6                               |                       | 3          |                      |                  |                | 9     |
| 1      | 180        |      | 1           |      |          |                                 |                       |            |                      |                  |                | 1     |
| 1      | 181        |      |             |      |          |                                 |                       |            |                      |                  | 1              | 1     |
| 1      | 182        |      | 1           |      |          |                                 |                       | 3          |                      |                  |                | 4     |
| 1      | 183        |      |             |      |          |                                 |                       |            |                      |                  | 1              | 1     |
| 1      | 2008trench | 14   | 1           |      |          |                                 |                       | 6          |                      |                  |                | 21    |
| 1      | 401        | 13   |             |      |          |                                 |                       | 2          |                      |                  |                | 15    |
| 1      | u/s        | 430  | 22          |      | 7        | 46                              | 22                    | 185        | 2                    | 6*               | 22             | 736   |

|   |     |         |        |  |   |    |        |  |   |         |    |                           |   |   |         |
|---|-----|---------|--------|--|---|----|--------|--|---|---------|----|---------------------------|---|---|---------|
| 2 | 202 | 30      | 2      |  |   |    | 2      |  |   | 4       |    | 4(clay<br>pipe,<br>glass) |   |   | 42      |
| 2 | 205 | 4       |        |  |   |    |        |  |   | 7       |    |                           | 2 |   | 13      |
| 2 | 227 | 6       | 1      |  |   |    |        |  |   | 2       |    |                           | 2 |   | 11      |
| 2 | 238 | 1       |        |  |   |    |        |  |   |         |    |                           |   |   | 1       |
| 2 | 241 | 5       |        |  |   |    |        |  |   |         |    |                           |   |   | 5       |
| 2 | 242 |         |        |  |   |    |        |  |   |         |    |                           | 2 |   | 2       |
| 2 | 250 | 1       |        |  |   |    |        |  |   |         |    |                           |   |   | 1       |
| 2 | 257 | 8       |        |  |   |    | 4      |  |   | 14      |    |                           |   |   | 26      |
| 2 | 258 | 1       |        |  |   | 3  |        |  |   | 1       |    |                           |   |   | 2       |
| 2 | 261 | 1       |        |  |   | 10 |        |  |   |         |    |                           |   |   | 4       |
| 2 | u/s | 49<br>7 | 2<br>1 |  | 1 | 1  | 6<br>2 |  | 2 | 11<br>1 | 14 | 17*                       |   | 4 | 72<br>0 |
| 2 | 207 |         |        |  |   | 2  |        |  |   |         |    |                           |   |   | 1       |
| 2 | 268 |         |        |  |   | 4  |        |  |   |         |    |                           |   |   | 2       |
| 2 | 309 |         |        |  |   |    |        |  |   | 1       |    |                           |   |   | 5       |
| 2 | 294 |         |        |  |   |    |        |  | 1 | 2       | 1  |                           |   |   | 4       |
| 2 | 223 |         |        |  |   |    |        |  | 1 |         |    |                           |   |   | 1       |
| 2 | 206 |         |        |  |   |    |        |  |   |         |    | 1(clay<br>pipe)           |   |   | 1       |
| 2 | 226 |         |        |  |   |    |        |  |   |         |    | 3(gl<br>ass)              |   |   | 3       |
| 2 | 234 |         |        |  |   |    | 1      |  |   |         |    |                           |   |   | 1       |
| 2 | 237 |         |        |  |   |    | 1      |  |   |         |    |                           |   |   | 1       |
| 2 | 239 |         |        |  |   |    |        |  |   | 1       |    |                           |   |   | 1       |
| 2 | 254 |         |        |  |   |    | 7      |  |   | 3       |    |                           | 2 |   | 12      |
| 2 | 259 |         |        |  |   |    | 2      |  |   |         |    |                           |   |   | 2       |

|          |            |  |  |  |  |  |          |  |  |          |  |  |  |  |                              |                  |
|----------|------------|--|--|--|--|--|----------|--|--|----------|--|--|--|--|------------------------------|------------------|
| <b>2</b> | <b>264</b> |  |  |  |  |  | <b>1</b> |  |  |          |  |  |  |  |                              | <b>1</b>         |
| <b>2</b> | <b>270</b> |  |  |  |  |  | <b>2</b> |  |  |          |  |  |  |  |                              | <b>2</b>         |
| <b>2</b> | <b>285</b> |  |  |  |  |  |          |  |  | <b>2</b> |  |  |  |  |                              | <b>2</b>         |
| <b>2</b> | <b>289</b> |  |  |  |  |  |          |  |  | <b>3</b> |  |  |  |  |                              | <b>3</b>         |
| <b>2</b> | <b>302</b> |  |  |  |  |  | <b>2</b> |  |  |          |  |  |  |  |                              | <b>2</b>         |
| <b>2</b> | <b>318</b> |  |  |  |  |  |          |  |  | <b>1</b> |  |  |  |  |                              | <b>1</b>         |
|          |            |  |  |  |  |  |          |  |  |          |  |  |  |  | <b>T<br/>ot<br/>al<br/>:</b> | <b>16<br/>80</b> |

## APPENDIX XI

### TWO CROSS SLABS AT HOLME CULTRAM ABBEY

*by Peter Ryder.*

During excavations in September 2015 two medieval cross slab grave covers were exposed in what had been the of the cloister walk, close to its south-east corner. The southern had previously been seen (and drawn) in 2008 but was more fully exposed on this occasion.

- (1)The southern slab, of red sandstone, 1.83 m by 0.60 m wide at the head and 0.53 m at the foot, cracked into three main pieces, with the base more fragmented. Incised design of a cross raguly rising from a stepped base; on the r. of the head, immediately beneath the transverse arm, is the emblem of a clasped book. A marginal inscription, in cursive Lombardic script, commences alongside the emblem, and runs to the base of the slab, then returns on the opposite side.

An attempt to read the inscription was made by Professor Lawrence Butler in 2008, relying on a drawing made of the slab then. This older drawing is however at variance with a 2015 version made when the slab was more fully exposed (and cleaner?). Contractions, combinations of letters and damage combine to make the text very hard to read. After an initial cross 'Iho' is presumably the name 'John'; then follows a word which has been read as 'DE NIUE-TUN' after which comes (separated by colons) what look like, 'SIO:ICI: DEV... truncated by the damaged foot of the stone. The l. side is even harder to read. Butler very tentatively interpreted the conventional formula 'DIEU DE SA ALME EY(T) MERCY AMEN'; only the last word is anything like obvious.

- (2)The northern slab, 1.81 m long and 0.46 m wide at the head, tapering to 0.32 m. Chamfered around the edge, it is also of red sandstone, but in much better condition. The design is incised, except for some low relief and sunk panels around the head. The cross head, carved within a circle, is of round-leaf bracelet form, with fleur-de-lys buds and a small cross at the head centre; it rises from a stepped Calvary base. On the l. of the shaft immediately below the head is what appears to be a unique emblem, a vase or cup from which three fleur-de-lys spring; it has the look of being a secondary addition to the design, with small cusped panels between it and the cross head looking of 14<sup>th</sup>-century character; directly below is a second emblem, this time lightly incised, a pair of shears, shown in outline only.

On the r. side of the cross shaft is the neatly-incised inscription, in Lombardic capitals:

HIC.IACET.DOMINA.EOA.DE.NEVT

The vase with its fleur-de-lys (lilies) is probably a symbol of the Virgin Mary, whilst the shears are a conventional female emblem. The cross design is stylistically of the late 12<sup>th</sup> or 13<sup>th</sup> century, but it is possible that it was re-used a century or so later. 'Domina' is an unusual title for a woman; the Christian name, contracted to 'EOA' is not immediately apparent. 'Nevt' might be a contraction for 'Newton'.

Peter Ryder September 2015

## APPENDIX XII

### Pottery Report by Sue Thompson, Wardell Armstrong archaeology Ltd.

#### HOLME CULTRAM      THE MEDIEVAL POTTERY ASSEMBLAGE – ASSESSMENT REPORT HCA-A AND HCA-B

##### Introduction

A total of 689 sherds of medieval pottery, weighing 13557g, was recovered from excavations at St. Mary's Abbey, Holme Cultram in 2014 and 2015. The sherds varied in size but were for the main part in good condition, with little post depositional wear or discolouration. In addition to the main sites HCA-A and HCA-B, pottery from three other areas was also assessed; FRG-A, SCC-A and WHF-A. The results from these smaller areas are also included here.

The medieval ceramics were initially sorted by fabric group based on the existing fabric series created for Holme Cultram (Greenlane 2011). The pottery was then quantified and weighed, and vessel fragments were noted, e.g. bases, rims, handles etc. Sherds were also examined for any decoration or residues which may be present.

##### Methods

The medieval pottery was assessed and recorded using guidelines published by the Medieval Pottery Research Group (MRPG 2001) and Orton *et al* (1993). In addition to the Holme Cultram pottery series, fabric descriptions from other local sites were also considered, although it has not yet been possible to see the physical Carlisle medieval pottery reference series.

##### Results

The assemblage was collected in roughly equal quantities in each of the two years of excavation, with 340 sherds (49%) recovered from HCA-A, and 349 from HCA-B (51%), with weights also fairly evenly split 6393g (47%) and 1764g (53%). A total of 71 sherds (10%) were from unstratified contexts.

The same fabrics as seen in earlier phases of work continued to be retrieved, with sandy fine wares and later reduced wares making up the assemblage. Lightly Gritted/ Sandy and fine wares accounts for 19% of the medieval pottery assemblage. It has been noted (Greenlane 2011, 17) that the Partially Reduced Grey ware may relate closely to some of the Sandy fabrics, however, during this assessment it has been considered that this group most closely resembles the Reduced fabric groups. A small number of Red Gritty ware sherds (19 sherds) are similar to the fabrics that dominate medieval assemblages in Carlisle in the 12<sup>th</sup> – 14<sup>th</sup> centuries (Bradley and Miller 2014). These very small fragments account for less than 3% of the total sherd count, and for the purposes of this assessment have been included with the Lightly Gritted/ Sandy wares. The majority of the pottery recovered comprised Partially Reduced Grey ware or Late Medieval Reduced ware (81% sherds and 89% weight).

The Holme Cultram fabric series created by Greenlane Archaeology (2011) recorded eight Lightly Gritted/ Sandy and fine wares. Sherds tend to be small, with few diagnostic fragments. Of these, Sandy Fabric 2 was the most common followed by Sandy Fabric 6 - this small group may represent imports from outside the area and has possible links with the coastal tradition

seen in west Cumbria (Greenlane 2011, 14). A date range of 12<sup>th</sup> – 14<sup>th</sup> centuries are suggested for this group.

A single Partially Reduced Grey ware group and three Late Medieval Reduced Grey wares are recorded in the Holme Cultram Fabric series. The Partially Reduced Grey ware has similarities with both the Sandy Fabrics of 12<sup>th</sup> – 14<sup>th</sup> centuries and the later Reduced wares. A date of 13<sup>th</sup> – 14<sup>th</sup> centuries is considered likely (Mace and Dawson 2011) The Late Medieval Reduced wares form part of the widespread Northern Greenware tradition and spans the 14<sup>th</sup> -17<sup>th</sup> centuries (Brooks 2000, 89).

Vessel types in Partially Reduced Greyware and Reduced Greyware include jugs and cisterns. Only one pinched spout was seen, along with two fragments of bungholes. Handles tend to be straps. Rims are simple in form and bases are flat or sagging. An almost-complete small jug was recovered from (276) SF 33. This has a slightly sagging base and strap handle. There are also two possible fragments of curfew. Curfews are a more unusual form of medieval ceramic, a large pottery dome used to cover domestic fires overnight to avoid the risk of sparks.

| Identifiable Vessel Fragment | Sandy and finewares Count | Sandy and finewares % | PRGW Count | PRGW % | Reduced wares | Reduced wares % |
|------------------------------|---------------------------|-----------------------|------------|--------|---------------|-----------------|
| Body                         | 80                        | 12                    | 71         | 10     | 311           | 45              |
| Rim                          | 6                         | 1                     | 15         | 2      | 17            | 2               |
| Base                         | 15                        | 2                     | 8          | 1      | 26            | 4               |
| Shoulder                     | 9                         | 1                     | 10         | 1      | 39            | 6               |
| Handle                       | 6                         | 1                     | 13         | 2      | 17            | 2               |
| Spout                        | 0                         | 0                     | 2          | 0.2    | 1             | 0.1             |

*Table 1: Count and percentages of identifiable vessel fragments by fabric types HCA-A and HCA-B*

Sixteen rim and base sherds accounting for 2% of the total assemblage have firing scars showing evidence of vessels being stacked in the kiln. Additionally, three sherds show signs of possible over-firing, and one sherd from context (222) had glaze on broken section edges indicating failure during firing. One possible waster was recovered from (270). While not necessarily an indication of a pottery kiln on site, these vessels would certainly not have been considered to be of the highest quality, and it is likely that they were locally produced (Miller 2014).

Very few of the sherds within this assemblage had signs of soot marks or accretions. A single sherd from (173) and one from (150) had post depositional residue, and only two sherds (both

from context (133)) showed signs of soot marks; one sherd with external sooting and one internally.

The HCA-A AND HCA-B medieval pottery assemblage appears to consist of fairly plain, utilitarian vessels as is common in Cumbria. While a wide range of glazes and colours was seen, only 23 sherds show any sign of decoration or embellishment (Table 2).

Forty-two sherds of post medieval pottery was also recovered weighing 353g, of these only eight were unstratified. Twelve sherds are possible Cistercian ware which is rare in Cumbria; this is likely to be late 15<sup>th</sup> – 16<sup>th</sup> century in date (McCarthy and Brooks 1992, 36). Eleven early stoneware sherds are also present, including three fragments of a light grey glazed stoneware which may come from Raeren in Belgium, dating to the early 16<sup>th</sup> century (Hurst *et al* 1986). Small Find 89 from (205) is a fragment of Bellarmine stoneware and likely to date to the 16<sup>th</sup> – 17<sup>th</sup> century (Blenkinship *pers comm*). Bellarmine jugs were produced in Frechen, Germany, becoming the main German stoneware imported into Britain by the second half of the 16<sup>th</sup> century.

### **Further Work**

It is possible that conjoining sherds and cross context joins exist which may be seen during further work – this may help to identify further vessel types. Diagnostic vessel fragments such as rims, bases and handles, and in particular the more unusual types such as curfew, should be drawn. Due to their scarcity, any decorated fragments should also be illustrated.

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### APPENDIX XIII: TABLE OF HCA-B MEDIEVAL FABRICS SUE THOMPSON

| Site Code | Context | Tr # | Fabric type     | Qty | Wgt (g) | Date       | Base | Rim | Body | Shoulder | Handle | Spout | Sooting? | Glaze ? | Decoration? | Notes                                                                                     |
|-----------|---------|------|-----------------|-----|---------|------------|------|-----|------|----------|--------|-------|----------|---------|-------------|-------------------------------------------------------------------------------------------|
| HCA-B     | 102     | 1    | Sandy 2?        | 1   | 2       | 12th- 13th | 1    |     |      |          |        | 3     |          |         |             |                                                                                           |
| HCA-B     | 104     | 1    | Red Gritty Ware | 2   | 7       | 12th- 14th |      |     | 2    |          |        |       |          | 1       |             |                                                                                           |
| HCA-B     | 104     | 1    | Reduced 1       | 1   | 7       | 14th- 17th |      |     | 1    |          |        |       |          | 1       |             |                                                                                           |
| HCA-B     | 104     | 1    | Reduced 2       | 4   | 42      | 14th- 17th |      |     | 4    |          |        |       |          | 4       |             |                                                                                           |
| HCA-B     | 104     | 1    | Sandy 2         | 2   | 20      | 12th- 13th |      |     | 2    |          |        | 22    |          | 2       |             |                                                                                           |
| HCA-B     | 105     | 1    | Reduced 2       | 1   | 104     | 14th- 17th |      |     | 1    |          |        |       |          | 1       |             |                                                                                           |
| HCA-B     | 110     | 1    | Lightly gritted | 4   | 4       | 12th- 14th |      |     | 1    |          |        |       |          | 1       |             | Thin very pale glaze                                                                      |
| HCA-B     | 111     | 1    | PRGW ?          | 1   | 18      | 13th- 14th |      |     |      |          |        |       |          | 1       |             | Uncertain form. Very hard fabric with very distinct margin. Light green glaze above brown |
| HCA-B     | 111     | 1    | Reduced 2       | 2   | 35      | 14th- 17th |      |     | 2    |          |        |       |          | 2       |             |                                                                                           |
| HCA-B     | 120     | 1    | Reduced 2       | 4   | 21      | 14th- 17th |      | 1   | 3    |          |        |       |          | 4       |             |                                                                                           |
| HCA-B     | 122     | 1    | Reduced 2       | 3   | 31      | 14th- 17th |      |     | 3    |          |        |       |          | 3       |             |                                                                                           |
| HCA-B     | 124     | 1    | Reduced 1       | 1   | 67      | 14th- 17th |      |     | 1    |          |        |       |          | 1       |             | Sparse flaking glaze                                                                      |
| HCA-B     | 124     | 1    | Reduced 2       | 1   | 31      | 14th- 17th |      |     | 1    |          |        |       |          | 1       |             |                                                                                           |
| HCA-B     | 124     | 1    | Sandy 6         | 1   | 40      | 12th- 14th | 1    |     |      |          |        |       |          | 1       |             | Dark green glaze externally                                                               |
| HCA-B     | 131     | 1    | Sandy 6         | 1   | 3       | 12th- 14th |      |     | 1    |          |        |       |          | 1       |             |                                                                                           |
| HCA-B     | 141     | 1    | Reduced 2       | 1   | 3       | 14th- 17th |      |     | 1    |          |        |       |          | 1       |             | Ridged exterior surface                                                                   |
| HCA-B     | 144     | 1    | Reduced 2       | 2   | 83      | 14th- 17th |      |     | 1    | 1        |        |       |          | 2       |             | Flaking glaze                                                                             |
| HCA-B     | 175     | 1    | Sandy 6         | 1   | 6       | 12th- 14th |      |     |      | 1        |        |       |          | 1       |             | Flaking glaze                                                                             |
| HCA-B     | 202     | 2    | PRGW            | 8   | 444     | 13th- 14th | 1    | 1   | 5    |          | 2      |       |          |         |             | 2 sherds have hard white residue on interior.                                             |
| HCA-B     | 202     | 2    | Reduced 1       | 4   | 83      | 14th- 17th |      |     | 3    |          |        | 1     |          | 4       |             | Frag of bunghole                                                                          |
| HCA-B     | 202     | 2    | Reduced 2       | 29  | 1099    | 14th- 17th | 5    |     |      | 2        |        |       |          | 29      |             | Firing scars seen on base sherd                                                           |
| HCA-B     | 202     | 2    | Sandy 2         | 2   | 10      | 12th- 13th |      |     | 1    |          | 1      | 12    |          | 1       |             | Tiny handle?                                                                              |
| HCA-B     | 204     |      | Reduced 2       | 1   | 5       | 14th- 17th |      |     | 1    |          |        |       |          | 1       |             |                                                                                           |

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HCA-B

|       |     |   |                 |    |     |            |   |   |    |   |   |     |  |    |    |                                                                                                       |
|-------|-----|---|-----------------|----|-----|------------|---|---|----|---|---|-----|--|----|----|-------------------------------------------------------------------------------------------------------|
| HCA-B | 204 |   | Sandy 2         | 2  | 15  | 12th- 13th |   |   | 2  |   |   | 17  |  | 1  |    |                                                                                                       |
| HCA-B | 205 | 2 | PRGW            | 13 | 103 | 13th- 14th |   | 3 | 9  | 1 |   | 1   |  | 12 | 1  | Stamps on 1 small sherd. Simple small pinched spout. Firing scar on 1 rim. 1 unglazed handmade rim    |
| HCA-B | 205 | 2 | Re-duced 2      | 11 | 259 | 14th- 17th |   |   | 9  | 1 | 1 |     |  | 11 | 1  | Ridged shoulder decoration                                                                            |
| HCA-B | 205 | 2 | Sandy 2?        | 3  | 41  | 12th- 13th |   |   | 3  |   |   | 44  |  | 3  |    | Splashy glaze. large body sherd not wheel thrown?                                                     |
| HCA-B | 206 | 2 | Re-duced 2      | 1  | 1   | 14th- 17th |   |   | 1  |   |   |     |  | 1  |    |                                                                                                       |
| HCA-B | 207 | 2 | Red Gritty Ware | 2  | 15  | 12th- 14th |   |   | 2  |   |   |     |  | 1  |    |                                                                                                       |
| HCA-B | 207 | 2 | Re-duced 2?     | 2  | 7   | 14th- 17th |   |   | 2  |   |   |     |  | 2  |    | Conjoining sherds                                                                                     |
| HCA-B | 208 | 2 | Re-duced 2      | 5  | 306 | 14th- 17th |   |   | 4  |   | 1 |     |  | 4  |    |                                                                                                       |
| HCA-B | 208 | 2 | Sandy 2         | 9  | 259 | 12th- 13th | 2 | 1 | 5  | 1 |   | 268 |  | 9  |    |                                                                                                       |
| HCA-B | 209 | 2 | Re-duced 2      | 1  | 22  | 14th- 17th |   |   | 1  |   |   |     |  | 1  |    | Hard brown streaky glaze                                                                              |
| HCA-B | 211 | 2 | PRGW            | 1  | 41  | 13th- 14th |   |   | 1  |   |   |     |  | 1  |    |                                                                                                       |
| HCA-B | 211 | 2 | Re-duced 2      | 2  | 18  | 14th- 17th |   |   | 2  |   |   |     |  | 2  |    |                                                                                                       |
| HCA-B | 213 | 2 | Re-duced 2      | 3  | 12  | 14th- 17th |   | 1 | 2  |   |   |     |  | 3  |    |                                                                                                       |
| HCA-B | 220 | 2 | Re-duced 1      | 1  | 13  | 14th- 17th |   |   | 2  |   |   |     |  | 2  |    |                                                                                                       |
| HCA-B | 220 | 2 | Re-duced 2      | 17 | 471 | 14th- 17th |   |   | 13 | 4 |   |     |  | 17 | 1? | Thumbing for handle on 1 shoulder sherdFiring scars on 1 body sherd. Faint linear combing? Overglazed |
| HCA-B | 220 | 2 | Re-duced 3      | 1  | 20  | 14th- 17th |   |   | 1  |   |   |     |  | 1  |    |                                                                                                       |
| HCA-B | 220 | 2 | Sandy 2         | 3  | 75  | 12th- 13th |   |   | 3  |   |   | 78  |  | 3  |    |                                                                                                       |
| HCA-B | 222 | 2 | PRGW            | 18 | 233 | 13th- 14th |   | 2 | 11 | 1 | 1 |     |  | 15 |    | Glaze on section indicate misfiring. Large strap handle unglazed                                      |
| HCA-B | 222 | 2 | Re-duced 2      | 14 | 440 | 14th- 17th | 1 |   | 12 |   | 1 |     |  | 14 | 1  | Thumbed decoration on 2 sherds. Sagging base                                                          |
| HCA-B | 225 | 2 | Re-duced        | 3  | 18  | 14th- 17th |   |   | 1  | 2 |   |     |  | 3  |    | Very hard, slightly gritty fabris. Very shiny brown glaze                                             |
| HCA-B | 225 | 2 | Re-duced 2?     | 1  | 18  | 14th- 17th |   |   | 1  |   |   |     |  | 1  |    | Very hard fabric - Oxidised on interior surface                                                       |
| HCA-B | 226 | 2 | Re-duced 2      | 11 | 202 | 14th- 17th |   |   | 11 |   |   |     |  | 11 |    | Thumbed area indicating handle on 1 sherd. Several conjoining sherds                                  |
| HCA-B | 226 | 2 | Sandy 2         | 1  | 7   | 12th- 13th |   |   | 1  |   |   | 8   |  | 1  |    |                                                                                                       |
| HCA-B | 227 | 2 | PRGW ?          | 1  | 25  | 13th- 14th |   |   |    |   |   |     |  | 1  | 1  | Thumbed decoration. Shiny brown glaze. Very hard fabric. Curfew?                                      |

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HCA-B

|       |     |   |            |    |     |            |   |   |    |   |   |    |  |    |   |                                             |
|-------|-----|---|------------|----|-----|------------|---|---|----|---|---|----|--|----|---|---------------------------------------------|
| HCA-B | 227 | 2 | Re-duced 1 | 1  | 2   | 14th- 17th |   |   | 1  |   |   |    |  | 1  |   |                                             |
| HCA-B | 227 | 2 | Re-duced 2 | 2  | 45  | 14th- 17th |   |   | 1  |   |   |    |  | 1  |   |                                             |
| HCA-B | 227 | 2 | Sandy 2    | 1  | 3   | 12th- 13th |   |   | 1  |   |   | 4  |  |    |   |                                             |
| HCA-B | 228 | 2 | Re-duced 1 | 1  | 24  | 14th- 17th |   |   | 1  |   |   |    |  | 1  |   |                                             |
| HCA-B | 228 | 2 | Re-duced 2 | 9  | 72  | 14th- 17th | 1 |   | 7  | 1 |   |    |  | 9  |   | Firing scars on 2 sherds                    |
| HCA-B | 237 | 2 | Re-duced 1 | 1  | 8   | 14th- 17th |   |   | 1  |   |   |    |  | 1  |   |                                             |
| HCA-B | 238 | 2 | PRGW       | 1  | 7   | 13th- 14th |   |   | 1  |   |   |    |  | 1  | 1 | Linear Rouletting                           |
| HCA-B | 240 | 2 | Re-duced 2 | 1  | 5   | 14th- 17th |   |   | 1  |   |   |    |  | 1  |   |                                             |
| HCA-B | 242 | 2 | PRGW       | 1  | 7   | 13th- 14th |   | 1 |    |   |   |    |  |    |   |                                             |
| HCA-B | 243 | 2 | PRGW       | 7  | 119 | 13th- 14th |   | 1 | 5  |   | 1 |    |  | 7  |   | Base of handle                              |
| HCA-B | 243 | 2 | Re-duced 2 | 17 | 474 | 14th- 17th |   | 1 | 11 | 5 |   |    |  | 17 |   |                                             |
| HCA-B | 250 | 2 | Sandy 2    | 2  | 75  | 12th- 13th |   | 1 | 1  |   |   | 77 |  | 1  |   |                                             |
| HCA-B | 253 | 2 | Sandy 6    | 1  | 7   | 12th- 14th |   |   | 1  |   |   |    |  | 1  |   |                                             |
| HCA-B | 254 | 2 | PRGW       | 10 | 118 | 13th- 14th | 2 | 1 | 4  | 2 | 1 |    |  | 6  |   | Conjoining sherds of base.                  |
| HCA-B | 254 | 2 | Re-duced 2 | 4  | 32  | 14th- 17th |   |   | 4  |   |   |    |  | 4  |   |                                             |
| HCA-B | 254 | 2 | Sandy 2    | 3  | 15  | 12th- 13th |   |   |    |   |   | 18 |  |    |   |                                             |
| HCA-B | 254 | 2 | Sandy 3?   | 2  | 52  | 12th- 14th | 5 |   |    |   |   |    |  |    | 1 | Stabbed decoration on interior              |
| HCA-B | 254 | 2 | Sandy 6    | 1  | 4   | 12th- 14th |   |   |    |   | 1 |    |  | 1  |   |                                             |
| HCA-B | 257 | 2 | PRGW       | 7  | 70  | 13th- 14th | 2 | 1 | 3  | 1 |   |    |  | 7  |   |                                             |
| HCA-B | 257 | 2 | Re-duced 1 | 3  | 17  | 14th- 17th |   |   | 3  |   |   |    |  | 2  |   |                                             |
| HCA-B | 257 | 2 | Re-duced 2 | 8  | 88  | 14th- 17th |   | 1 | 5  | 2 |   |    |  | 8  |   | Raised linear on 2 neck sherds              |
| HCA-B | 259 | 2 | PRGW       | 6  | 88  | 13th- 14th |   |   | 5  |   | 1 |    |  | 2  |   |                                             |
| HCA-B | 264 | 2 | PRGW       | 1  | 22  | 13th- 14th | 1 |   |    |   |   |    |  | 1  |   |                                             |
| HCA-B | 264 | 2 | Sandy 2    | 1  | 1   | 12th- 13th |   |   | 1  |   |   | 2  |  | 1  |   |                                             |
| HCA-B | 270 | 2 | PRGW       | 2  | 19  | 13th- 14th |   | 2 |    |   |   |    |  | 2  |   | 1 waster                                    |
| HCA-B | 270 | 2 | Re-duced 2 | 1  | 33  | 14th- 17th |   |   | 1  |   |   |    |  | 1  |   |                                             |
| HCA-B | 271 | 2 | Re-duced   | 1  | 38  | 14th- 17th |   |   | 1  |   |   |    |  | 1  |   | Unusual. Brown flaking glaze Applied strips |
| HCA-B | 287 | 2 | Re-duced 2 | 3  | 23  | 14th- 17th | 1 |   | 2  |   |   |    |  | 3  |   | Partial thumb area                          |
| HCA-B | 289 | 2 | Re-duced 2 | 1  | 4   | 14th- 17th |   |   | 1  |   |   |    |  | 1  |   |                                             |
| HCA-B | 295 | 2 | PRGW       | 1  | 4   | 13th- 14th |   |   | 1  |   |   |    |  | 1  |   |                                             |

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HCA-B

|        |     |                |            |     |      |             |   |   |   |   |   |    |  |   |   |                                                           |
|--------|-----|----------------|------------|-----|------|-------------|---|---|---|---|---|----|--|---|---|-----------------------------------------------------------|
| HCA-B  | 296 | 2              | Re-duced 2 | 3   | 43   | 14th- 17th  | 1 |   | 2 |   |   |    |  | 3 |   |                                                           |
| HCA-B  | 296 | 2              | Sandy 2    | 1   | 14   | 12th- 13th  | 1 |   |   |   |   | 15 |  | 1 |   |                                                           |
| HCA-B  | 296 | 2              | Sandy 6    | 2   | 10   | 12th- 14th  |   |   | 2 |   |   |    |  | 2 |   |                                                           |
| HCA-B  | 302 |                | Re-duced 1 | 1   | 10   | 14th- 17th  |   |   |   | 1 |   |    |  | 1 |   |                                                           |
| HCA-B  | 302 |                | Re-duced 2 | 2   | 18   | 14th- 17th  |   |   | 2 |   |   |    |  | 2 |   |                                                           |
| HCA-B  | 302 |                | Re-duced 3 | 1   | 17   | 14th- 17th  |   | 1 |   |   |   |    |  | 1 |   |                                                           |
| HCA-B  | 303 | 2              | Re-duced 2 | 10  | 204  | 14th - 17th |   | 2 | 6 | 2 |   |    |  | 9 |   | Firing scar on 2 sherds                                   |
| HCA-B  | 303 | 2              | Re-duced 3 | 1   | 15   | 14th- 17th  |   |   | 1 |   |   |    |  | 1 |   |                                                           |
| HCA-B  | 307 | 2              | PRGW       | 1   | 23   | 13th- 14th  |   |   |   |   | 1 |    |  | 1 |   | Rod handle                                                |
| HCA-B  | 307 |                | PRGW       | 3   | 16   | 13th- 14th  |   |   | 3 |   |   |    |  | 3 | 1 | Rouletting? On 1 sherd                                    |
| HCA-B  | 309 | 2              | Sandy 2    | 1   | 15   | 12th- 13th  |   |   | 1 |   |   | 16 |  | 1 |   | Very glossy brown glaze                                   |
| HCA-B  | 309 | 2              | Sandy 6    | 1   | 2    | 12th- 14th  |   |   | 1 |   |   |    |  |   |   |                                                           |
| HCA-B  | U/S | 1              | PRGW       | 1   | 13   | 13th- 14th  |   |   |   | 1 |   |    |  | 1 |   |                                                           |
| HCA-B  | U/S | 1              | Re-duced 2 | 7   | 242  | 14th- 17th  | 2 |   | 5 |   |   |    |  | 7 |   | Raised lump on base? Worn - possibly acting as small foot |
| HCA-B  | U/S | 1              | Sandy 2    | 1   | 16   | 12th- 13th  |   | 1 |   |   |   | 17 |  | 1 |   | Drips of glaze                                            |
| HCA-B  | U/S | 2              | Re-duced 1 | 2   | 29   | 14th- 17th  |   |   | 2 |   |   |    |  | 2 |   |                                                           |
| HCA-B  | U/S | 2              | Re-duced 2 | 4   | 112  | 14th- 17th  |   |   | 4 |   |   |    |  | 3 |   |                                                           |
| HCA-B  | U/S | 2              | Sandy 6    | 1   | 15   | 12th- 14th  |   |   | 1 |   |   |    |  | 1 |   |                                                           |
| HCA-B  | U/S | 200<br>8<br>Tr | Sandy 2    | 2   | 23   | 12th- 13th  |   |   | 2 |   |   | 25 |  | 2 | 1 | Incised grooves                                           |
| HCA-B  | U/S |                | Re-duced 2 | 1   | 65   | 14th- 17th  |   |   | 1 |   |   |    |  | 1 |   |                                                           |
| TO-TAL |     |                |            | 349 | 7164 |             |   |   |   |   |   |    |  |   |   |                                                           |

## **APPENDIX XIV**

### **LEAD TOKENS FROM HOLME CULTRAM ABBEY EXCAVATIONS 2015**

#### **Kate Rennicks**

44 (possibly 45) lead or pewter tokens were uncovered in the summer excavation season at Holme Cultram Abbey in 2015. Primarily, they came from unstratified contexts and were located by metal detector in spoil heaps. Many came from the eastern side of Trench 1, in the vicinity of the area thought to have been the Chapter House. Nine of them (20%) were found in stratified contexts and came from 102, 122, 124, and 184. Unfortunately, these contexts are either topsoil or demolition debris and as such, cannot be of assistance from a dating perspective.

The size ranges from 13-16mm in diameter and those with the same designs appear to share the same sizing, hinting at common moulds. Two items are far larger (finds references 119 and 145) and are not considered as part of the series discussed below. Particularly intriguing are the depictions and associated lettering and it is this that makes these tokens unusual. With the exception of one token that appears to be deliberately unfaced (see Figure 13-14) and four in which the condition is too poor to decipher the design, all are bi-faced, featuring an image on one side and lettering on the other. Appendix 1 gives a detailed breakdown of the features of each token. The tokens are between 14-16mm in diameter and by far the most common occurrence accounting for 30 of the finds is the boat / scales with 'SEL' lettered on the reverse. Two of this design type also appear to be deliberately pierced.

Figures 1-12 below shows the six types of tokens found and uses the Powell Classification system for lead tokens to describe them ([http://www.mernick.org.uk/leadtokens/Classification\\_System.pdf](http://www.mernick.org.uk/leadtokens/Classification_System.pdf)). One item (the crowned R piece) is quite different from the rest of the series and may be better classified as a seal or pilgrim badge. This will be further discussed later. For ease of reference, the face with the image is referred to as the 'obverse' and that with lettering as the 'reverse', although there is no way to tell if this nomenclature is correct.

| Image                                                                               | Reference & Details                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p><u>Figure 1</u></p> <p>Small Finds Reference 24, Obverse</p> <p>Description: Hammer, tongs and horse-shoe</p> <p>Powell Classification Type 21: Inanimate Objects</p> <p>Number of this design found: 3</p> |
|  | <p><u>Figure 2</u></p> <p>Small Finds Reference 24, Reverse</p> <p>Description: The letters SEVIL+</p> <p>Powell Classification Type 29: Words or significant abbreviations</p>                                |



Figure 3

Small Finds Reference 56, Obverse

Description: Possibly a stylised ship, weighing scales or a salt pan

Powell Classification Type depends on interpretation of the diagram. If a ship, then this is type 6; if scales or a salt pan, then

Number of this design found: 30



Figure 4

Small Finds Reference 56, Reverse

Powell Classification Type 29: Words or significant abbreviations

Description: The letters SEL followed by a superscript dot



Figure 5

Small Finds Reference 71, Obverse

Powell Classification Type 17: Trees, plants and their produce

Description: A flower with five petals

Number of this design found: 1 possibly 2



Figure 6

Small Finds Reference 71, Reverse

Powell Classification Type 29: Words or significant abbreviations

Description: Lettering apparent but indecipherable. Possibly INLE or ?HIC.



Figure 7

Small Finds Reference 65, Obverse

Powell Classification Type 17: Trees, plants and their produce

Description: A pollarded tree or possibly a stag's head with antlers.

Number of this design found: 2



Figure 8

Small Finds Reference 65, Reverse

Powell Classification Type 29: Words or significant abbreviations or Type 15: Religious

Description: Possibly a 'h' with a dot in the middle; possibly a crozier



Figure 9

Small Finds Reference 63, Obverse

Powell Classification Type 19: Animals, including fish and insects

Description: A leaping stag

Number of this design found: 1



Figure 10

Small Finds Reference 63, Reverse

Powell Classification Type 29: Words or significant abbreviations

Description: The letters FLE with a subscript dot beneath the 'L'.



Figure 11

Small Finds Reference 31, Obverse

Powell Classification Type 4: Lis

Description: Fleur de lys

Number of this design found: 2, possibly 3



Figure 12

Small Finds Reference 31, Reverse

Powell Classification Type 29: Words or significant abbreviations

Description: The letters VFO?

## Discussion

Lead tokens are generally poorly understood in Britain. The vast majority have been located by metal detectorists and only a tiny proportion of all those found nationally have been found in dateable contexts. Tokens were frequently used as an alternative to small denomination currency from around 1200 through to 19<sup>th</sup> century and they should be seen as a ‘chit for service’ as opposed to a monetary substitute. Mitchiner and Skinner’s work (1983) is the most comprehensive study of tokens in Britain and stylistically, those found at Holme Cultram appear to correspond most closely with their category of early Tudor tokens, dating to c.1490-1545 (Allen, M. pers. comm). Dating can only be hypothesised based on comparison and not stratigraphy.

Analysis has not been carried out at this stage on the metal composition although it is believed that the tokens are made of lead or pewter. The presence of casting lips suggests that they were cast or mould made. Although no moulds have been discovered at Abbeytown, several stone moulds for tokens have been discovered in France in the Seine river (Forgeais 1866, 250-253) and these examples exhibit multiple designs, with up to 6 different design types on the same mould. It is therefore possible that several token designs were being produced at the same time. The location of manufacture is also unknown but some are miscast or untrimmed, and it has been suggested that this feature in tokens can indicate local manufacture (Saunders 2001, 102). It is suspected that there may have been multiple moulds featuring the most common design (the boat, scales or salt pan - see Figures 3 and 4) because there are slight differences in the sizes of the raised lettering and these can be tentatively grouped but more analysis will need to be carried out to confirm this (a secondary mould is suggested for finds references 3.1; 3.2; 40; 61 and 67).

It is reasonable to suggest that the tokens were locally made, possibly within the Abbey’s precinct or granges. The series is unknown elsewhere, the designs are quite distinctive and unlike those found elsewhere<sup>1</sup> and they were found in a significant quantity (very rarely are tokens found in this quantity). It is tempting to suggest that they were also manufactured by the Abbey itself because they were found (albeit unstratified in demolition debris), in the area of the complex that has been interpreted as the former location of the chapter house.

As to why these tokens were found in such quantity at Holme Cultram Abbey and what they were used for is a matter requiring further study. The designs and lettering are enigmatic and require further analysis but one theory is that the designs correspond with some of the commodities in which the abbey was trading. Charter evidence refers to the abbey having rights in woodlands, deer, salt, iron and metal work which may correspond to images on the tokens yet designs such as the fleur de lys and the flower are hard to match to particular goods. There are other commodities such as wool and fish that one would expect to be depicted if this were the case, particularly given the abbey’s reputation for the fine quality of its wool. Absence of evidence in an excavation though does not mean that it has never existed. The lettering is impossible to decipher on some of the tokens and on those where it is visible, (SEL or FLE), it may be abbreviated (as suggested by the dots) although it is reasonable to suggest that the decoration and the lettering had some relationship. At this point, interpretation of the meanings of these letters is elusive. Speculations that ‘SEL’ may refer to salt or Selkirk have been made but these are at best, guesses. Yet the trouble taken to create designs that are clearly not arbitrary does

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<sup>1</sup> No direct comparators have yet been found. Sources consulted include the catalogues of the Museum of London, Salisbury Museum, the British Museum; Mitchiner & Skinners 1984 and 1985 catalogues and the UK detector finds database.

rather lead to the conclusion that each was to be used for a specific commodity or tradesperson. The designs and similarity in lettering could mean one designer and one issuing body so logically, does this then suggest that this one body was controlling the local economy, or controlling the flow of trade?

There are examples of these tokens being used by monastic houses to pay lay preachers for attending services, for instance at St Omer and Notre Dame in Paris (Michiner and Skinner 1983, 30). Where this is the case, the tokens used for such purpose are although if this is their function, the name of the service is likely to feature in the design and this is not the case at Holme Cultram.

The dating period suggested for the tokens straddles the Dissolution of the monasteries and the Abbey surrendered to Cromwell's commissioners in 1538 (Gilbanks 1900, 106-11). The area was regularly subject to Scottish raiding, as documented in the charter evidence. For example, immediately after the death of Abbot Thomas Ireby in August 1536, Christopher Nevinson, sub-prior, and 21 monks of the convent begged leave from Cromwell to elect a new abbot without delay, on the grounds that they were continually exposed to danger from the Scots (Grainger and Collingwood 1921, 155). Whether this threat from the Scots can be taken on face value given the timing of the request (following the Visitation and immediately pre Dissolution) is another matter but it is true to say that the Abbey certainly suffered many years of hardship owing to its proximity to the Scottish border and was raided on many occasions. It is not unreasonable to infer that fear from attack was very real.

In the valuation of 1535, (Hutchinson *Cumberland* ii, 343 cited in Grainger and Collingwood 1929, 161-163), the Abbey's spiritualities and temporalities were recorded at £535 per annum and its liabilities at £477 per annum so there was significant monetary circulation despite the Scottish problem. There are no grounds to suggest that tokens were a replacement for a monetary economy but it could be the case that there was a low level, service driven economic sub culture. For example, for services rendered to the abbey to its tenants or neighbours, they abbey then issued the token as a chit for service to be exchanged for goods that the abbey was producing itself.

Of course, the possibility that these tokens were in use and circulated after the Dissolution of the Abbey cannot be ruled out at the stage. The majority of the tokens were found in the demolition layer and it has already been established that demolition at Holme Cultram is likely to have been systematic and organised (Walker and Graham 2013) so the tokens could have been deposited by a demolition gang, perhaps resting in the area of the former chapter house but if this were the case then a secular rather than ecclesiastical origin would be likely and their function is likely to have been the same.

### A Seal or Pilgrim Badge?

The artefact shown in Figure 13 and 14 is quite different to the tokens described above. It is made of lead or pewter and is of a comparable size to the tokens but the designs feature on the obverse only, with the reverse remaining blank. Stylistically, it is different to the other tokens in that not only is the design raised but it is also incised so there has been a secondary activity in the design and decoration process. Similar designs are found on finger rings in the medieval period, thought to be seals (Murrawski 2003, 410-413). A crowned 'R' is found in the Jerusalem Chamber of the Cheneygates (the medieval house of the Abbots of Westminster) and is thought

to be the royal cypher of Richard II in whose reign the chamber was constructed. There are a number of associations with royal 'R's' in the charter evidence, notably in connection with grants of forestry at Inglewood (Grainger and Collingwood 1929, 45-7) although no evidence that there was ever a closer link. The abbey does have a link with a Scottish royal 'R' in that it is the resting place for the body of the father of King Robert the Bruce but again, there is no suggestion of patronage or affiliation in any other way. A further suggestion is that the crowned R stands for 'Regina Coeli', or Mary Queen of Heaven. The abbey's seal features the Virgin Mary standing (Gilbanks 1899,88) and so an association with Mary is known but this interpretation of the artefact cannot yet be substantiated.



Figure 13

Small Finds Reference 16

Powell Classification Type 25: Miscellaneous Objects, Royal

Description: A crowned 'R'

Number of this design found: 1



Figure 14 – Small Finds Reference 16

Description: Reverse, undecorated.

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## APPENDIX XV: DATABASE OF ALL TOKENS RECOVERED FROM HCA-B

Kate Rennicks

| Small Finds Reference | Context Number / Location | Face (obverse)            | Reverse                                                                                   | Reverse orientation                                                     | Diameter | Comments                                                                                                                                |
|-----------------------|---------------------------|---------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 3.1                   | U/S; E side of Tr1        | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     | heavy lettering                                                                                                                         |
| 3.2                   | U/S; E side of Tr1        | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     | heavy lettering and slightly off centre                                                                                                 |
| 4                     | U/S                       | hammer, tongs & horseshoe | SEVIL +                                                                                   | The tongs are 12 o'clock to 6 o'clock, obverse, the S at the 12 o'clock | 15.5mm   |                                                                                                                                         |
| 19                    | U/S SE corner             | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                                         |
| 22                    | U/S                       | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                                         |
| 24                    | U/S                       | hammer, tongs & horseshoe | SEVIL +                                                                                   | The tongs are 12 o'clock to 6 o'clock, obverse, the S at the 12 o'clock | 15.5mm   |                                                                                                                                         |
| 25                    | U/S                       | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     | pierced at o'clock (corresponds with location of the blob on other ones) and triangular piece missing at 2 o'clock. The 'E' is enlarged |
| 26                    | U/S                       | undecipherable            | MA??                                                                                      | impossible to determine 12 o'clock point                                | 13.5mm   |                                                                                                                                         |
| 28                    | U/S                       | fleur de lys              | VIC ??                                                                                    | impossible to determine 12 o'clock point                                | 12mm     |                                                                                                                                         |
| 29                    | U/S                       | boat / scales             | SE & stippling round edge                                                                 | boat is 180 degrees to the lettering                                    |          | worn, completely different to other on reverse, large casting lip, Boat on obverse larger than on other ones                            |
| 30                    | U/S                       | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 15.5mm   |                                                                                                                                         |
| 31                    | U/S                       | fleur de lys              | VA blob, image underneath                                                                 | aligned N/S both ob & rev                                               | 13mm     |                                                                                                                                         |
| 38                    | U/S SE corner             | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     | not circular, additional rim below boat / scales, 17mm at widest point                                                                  |
| 39                    | U/S SE corner             | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     | crack at 7 o'clock                                                                                                                      |
| 40                    | U/S SE corner             | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     | pronounced design                                                                                                                       |
| 56                    | U/S SE corner             | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     | flaw or lip folded below boat / scales                                                                                                  |
| 60                    | 102                       | boat / scales             | SEL                                                                                       | SEL slightly misaligned, not horizontal                                 | 15.5mm   | missing NE corner                                                                                                                       |
| 61                    | 102                       | boat / scales             | SEL                                                                                       | aligned N/S both ob & rev                                               | 16mm     | bent, pronounced and flattened design                                                                                                   |
| 62                    | 182                       | stag's head / tree?       | indecipherable                                                                            | impossible to determine 12 o'clock point                                | 16mm     | mortared, hard to see                                                                                                                   |
| 63                    | U/S SE corner             | leaping stag              | FLE                                                                                       | stag horizontal in same plane as FLE                                    | 15mm     |                                                                                                                                         |
| 65                    | U/S SE corner             | stag's head / tree?       | h or top of shepherd's crook or pastoral staff, curled end to crook or dot in the centre, | impossible to determine 12 o'clock point                                | 14mm     | quite worn, hard to read                                                                                                                |

|     |               |                                           |                                               |                                                                         |          |                                                                                                                     |
|-----|---------------|-------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------|
| 67  | 124           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 15mm     | pronounced design                                                                                                   |
| 68  | 122           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     | Pierced at 12 o'clock with casting lug above                                                                        |
| 71  | U/S SE corner | flower with 5 lobes?                      | Indecipherable letters. Possibly INLE or ?HIC | impossible to determine 12 o'clock point                                | 13mm     | nibbled at the edges, very hard to distinguish design                                                               |
| 72  | 122           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                     |
| 73  | 124           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                     |
| 74  | 124           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 15.5mm   |                                                                                                                     |
| 75  | 124           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     | Not complete, NW corner missing                                                                                     |
| 78  | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                     |
| 83  | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                     |
| 84  | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 15.5mm   | slightly bent, section on NE corner missing                                                                         |
| 93  | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     | distinct casting lug at the 12 o'clock point                                                                        |
| 97  | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                     |
| 98  | U/S           | hammer, tongs & horseshoe                 | SEVIL +                                       | The tongs are 12 o'clock to 6 o'clock, obverse, the S at the 12 o'clock | 15.5mm   |                                                                                                                     |
| 113 | U/S           | Indecipherable                            | Indecipherable                                | Indecipherable                                                          | 16mm     |                                                                                                                     |
| 115 | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 15.5mm   |                                                                                                                     |
| 119 | U/S           | Indecipherable                            | pecked design, possibly a coin not a token    | Indecipherable                                                          | 22mm     | is this a degraded coin?                                                                                            |
| 122 | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 15.5mm   | stamp of boat / scales is off centre, token slightly oval, 16.5mm on N/S orientation, flaw (hole) within boat shape |
| 124 | U/S           | unknown possibly flower or fleur de lys   | Indecipherable                                | Indecipherable                                                          | 13mm     |                                                                                                                     |
| 125 | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                     |
| 131 | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                     |
| 133 | U/S           | boat / scales                             | SEL                                           | aligned N/S both ob & rev                                               | 16mm     |                                                                                                                     |
| 145 | U/S           | Indecipherable                            | Indecipherable                                | Indecipherable                                                          | 32mm     |                                                                                                                     |
| 149 | U/S           | boat / scales                             | SE                                            | aligned N/S both ob & rev                                               | fragment | fragmentary, only 40% remaining                                                                                     |
| 16  |               | R with a crown above, pecking either side | blank                                         | reverse is blank                                                        | 15mm     |                                                                                                                     |

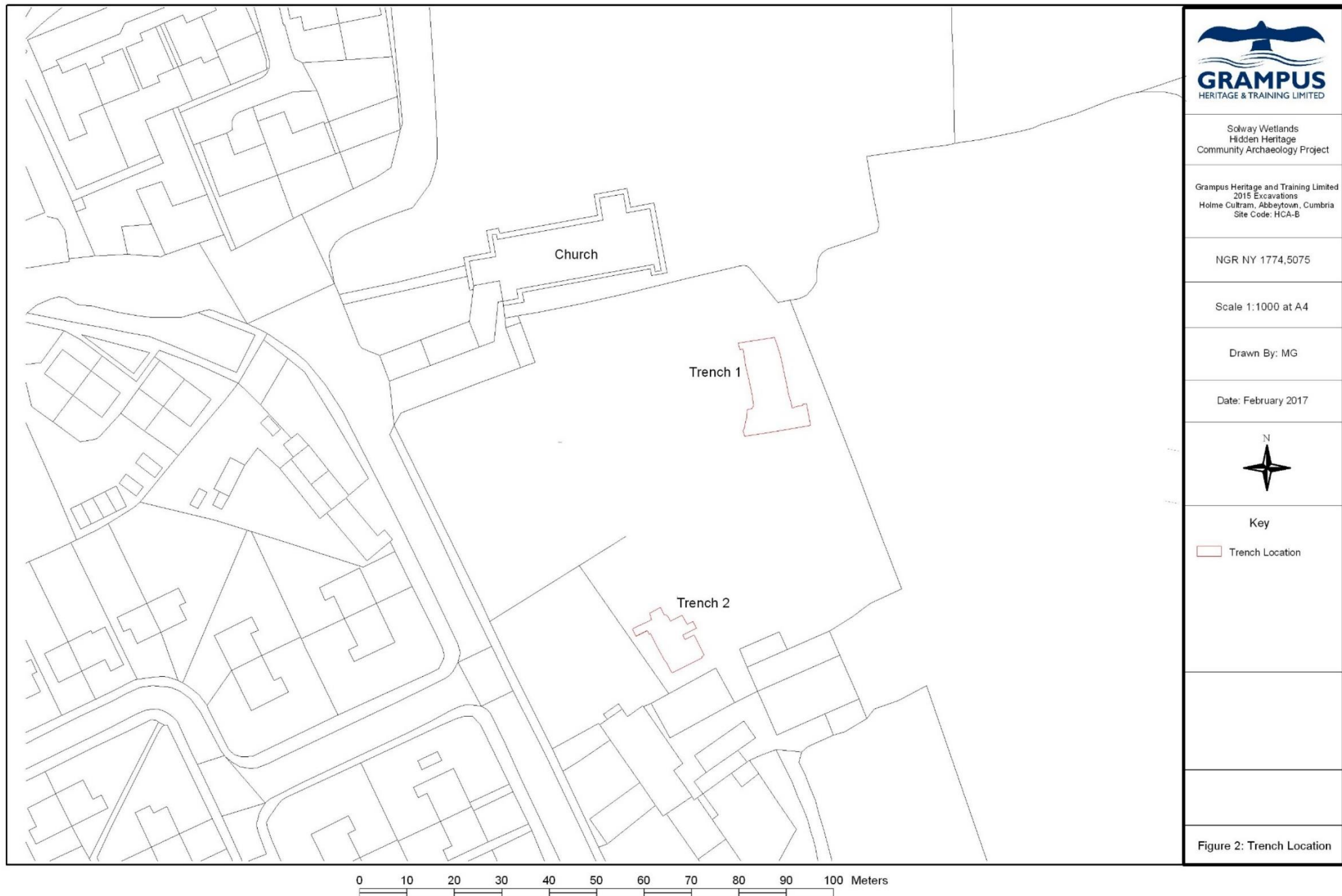
**APPENDIX XVI : TABLE OF COINS RECOVERED FROM HCA-B**  
**John Mattinson**

| No  | Coin type                                          | Obverse Legend             | Reverse Legend or possible mint                                                | Ruler & Dates                        | Notes                                                                 |
|-----|----------------------------------------------------|----------------------------|--------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------|
| 2   | Bronze                                             |                            |                                                                                |                                      | Nuremburg ??                                                          |
| 5   | Silver Penny                                       | EDWRANGLDN                 | CIVITAS LONDON                                                                 | Edward I - Edward III<br>1279 - 1377 |                                                                       |
| 15  | Scottish 2p<br>Turner/Bodle                        | NEMO ME IMPUNE<br>LACESSET | .CAR.DG.SCOT.ANG.FRA.ET.HIB.R                                                  | Charles II<br>1663?                  |                                                                       |
| 35  | Farthing Long<br>Cross                             |                            | Corroded. Long Cross just visible<br>but not possible to read the leg-<br>ends | Edward I - Henry VI<br>1279 - 1471   |                                                                       |
| 36  | Silver Penny                                       | EDWRANGLDN                 | CIVITAS DVN..M Durham                                                          | Edward I - Edward II<br>1279 - 1377  |                                                                       |
| 54  | Silver Half Groat                                  | +EDWARDVSREXA.             | CIVITAS LONDON                                                                 | Edward III<br>1351 - 1361            | Pre Treaty Coinage                                                    |
| 55  | Silver Penny                                       |                            | CIVI...DVREME                                                                  |                                      |                                                                       |
| 81  | Silver Penny                                       | RICOM----RIE               | ALO XEL MON ETA                                                                |                                      | Possible foreign imitation                                            |
| 87  | Silver Penny                                       | EDWRANGLDNS--B             | CIVITAS LINCO-                                                                 | Edward I<br>1279 - 1307              |                                                                       |
| 88  | Silver Penny                                       |                            | York                                                                           | Richard II ?<br>1377 - 1399          | Quatrefoil in centre of reverse. Possibly S1690 to S1695              |
| 90  | Silver Groat                                       |                            | VILLA CALISIE Calais                                                           |                                      | Very corroded                                                         |
| 92  | Silver cut half-penny                              |                            |                                                                                |                                      | Flat - indecipherable                                                 |
| 94  | Silver Long Cross penny or half-penny              |                            |                                                                                | Edwardian??                          | Clipped or other losses. Badly corroded. Long Cross only just visible |
| 96  | Silver Long Cross farthing                         |                            |                                                                                | Edward I ??                          | Indecipherable. Badly corroded                                        |
| 99  | Silver farthing                                    |                            | portcullis/rose                                                                | Possibly Henry VIII                  | S2363 or S2363A                                                       |
| 100 | Copper farthing                                    |                            | Crowned rose                                                                   | Charles I                            | S3206                                                                 |
| 116 | Silver Penny                                       | EDWARDVS REX               | York                                                                           | Edward IV possibly                   | Either S1987 Archbishop Booth or S2062 or 2063 Archbishop Neville     |
| 117 | Silver Penny                                       | EDWARDVS                   | CIVITAS -----                                                                  |                                      |                                                                       |
| 128 | Indecipherable coin adhering to slag type material |                            |                                                                                |                                      |                                                                       |

## **APPENDIX XVII: FIGURES**



FIGURE 1: HCA-B SITE LOCATION





Solway Wetlands  
Hidden Heritage  
Community Archaeology Project

Grampus Heritage and Training Limited  
2015 Excavations  
Holme Cultram, Abbeytown, Cumbria  
Site Code: HCA-B

February 2017

NGR NY 1776,5079

Scale: 1:100 at A4

Drawn by: MG

### Key

- Wall (Robbed)
- Stone
- Excavation Extent
- Drawn Section
- Grave
- Floor Tile
- 2008 Trench



Figure 3: HCA-AB  
Trench 1





Solway Wetlands  
Hidden Heritage  
Community Archaeology Project

Grampus Heritage and Training Limited  
2015 Excavations  
Holme Cultram, Abbeytown, Cumbria  
Site Code: HCA-B

February 2017

NGR NY 1776,5079

Scale: 1:100 at A4

Drawn by: MG

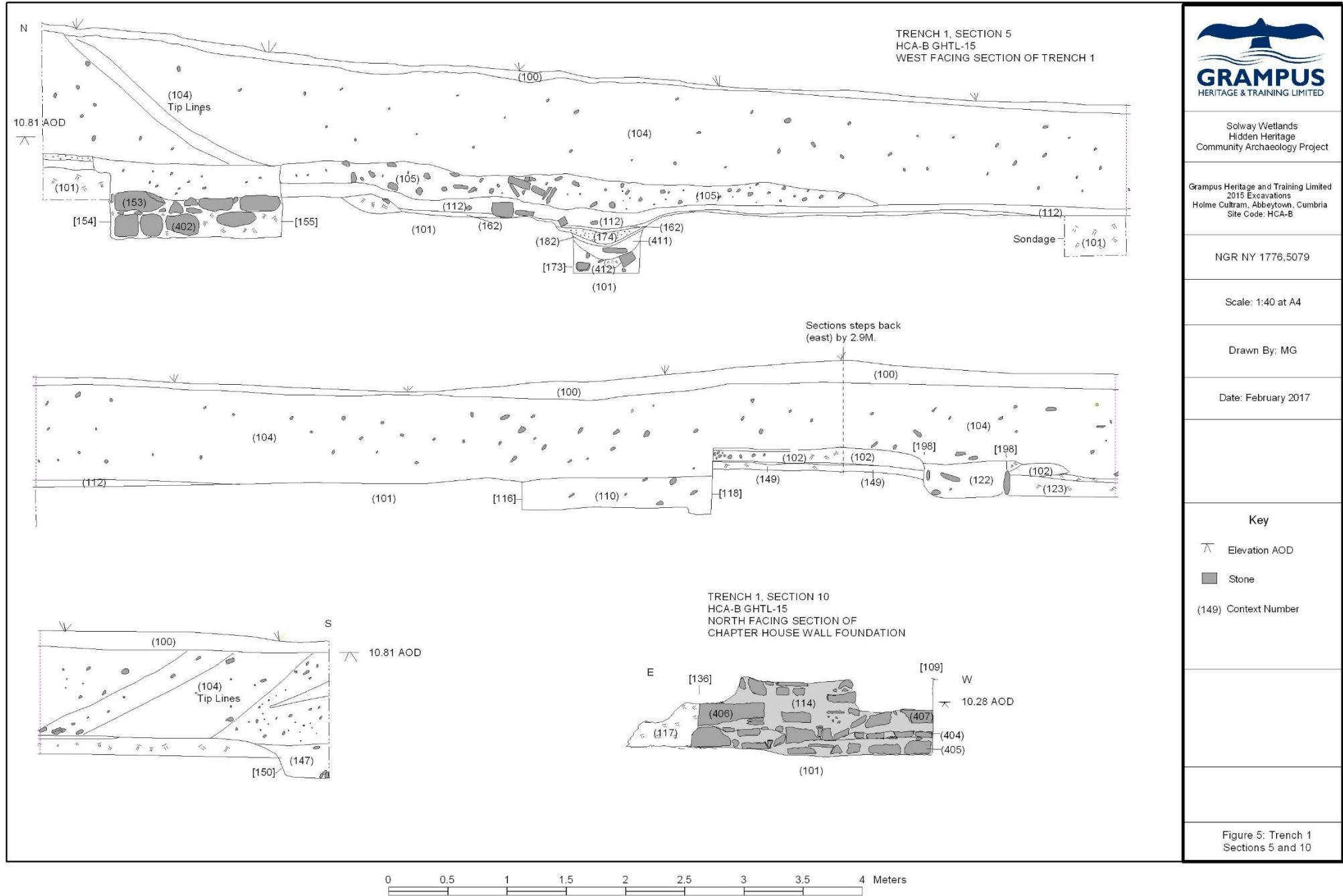
### Key

- Wall (Robbed)
- Stone
- Excavation Extent
- Drawn Section
- Grave
- 2008 Trench

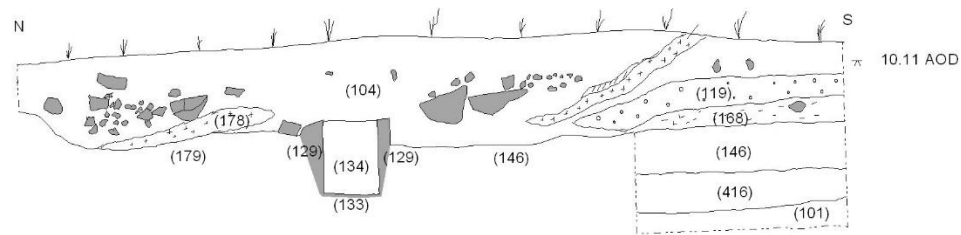


Figure 4: HCA-B  
Trench 1 Final Plan

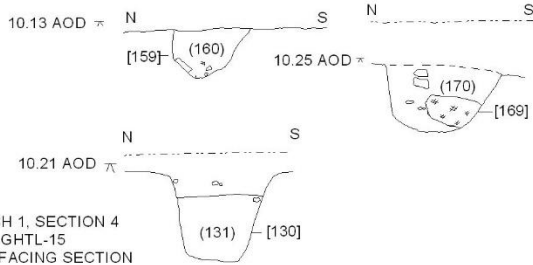




TRENCH 1, SECTION 9  
HCA-B GHTL-15  
WEST FACING SECTION OF BAULK



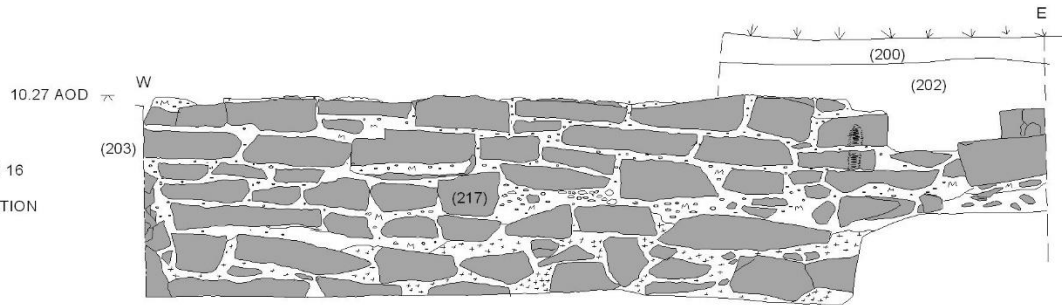
TRENCH 1, SECTION 2  
HCA-B GHTL-15  
WEST FACING SECTION



TRENCH 1, SECTION 3  
HCA-B GHTL-15  
WEST FACING SECTION

TRENCH 1, SECTION 4  
HCA-B GHTL-15  
WEST FACING SECTION

TRENCH 2, SECTION 16  
HCA-B GHTL-15  
SOUTH FACING SECTION



Solway Wetlands  
Hidden Heritage  
Community Archaeology Project

Grampus Heritage and Training Limited  
2015 Excavations  
Holme Cultram, Abbeytown, Cumbria  
Site Code: HCA-B

NGR NY 1774,5073

Scale: 1:30 at A4

Drawn By: MG

Date: February 2017

Key

∩ Elevation AOD

■ Stone

(149) Context Number

Figure 6: Trench 1: Sections  
2, 3, 4 and 9  
Trench 2: Section 16





Solway Wetlands  
Hidden Heritage  
Community Archaeology Project

Grampus Heritage and Training Limited  
2015 Excavations  
Holme Cultram, Abbeytown, Cumbria  
Site Code: HCA-B

NGR NY 1774,5073

Scale 1:80 at A4

Drawn By: MG

Date: February 2017

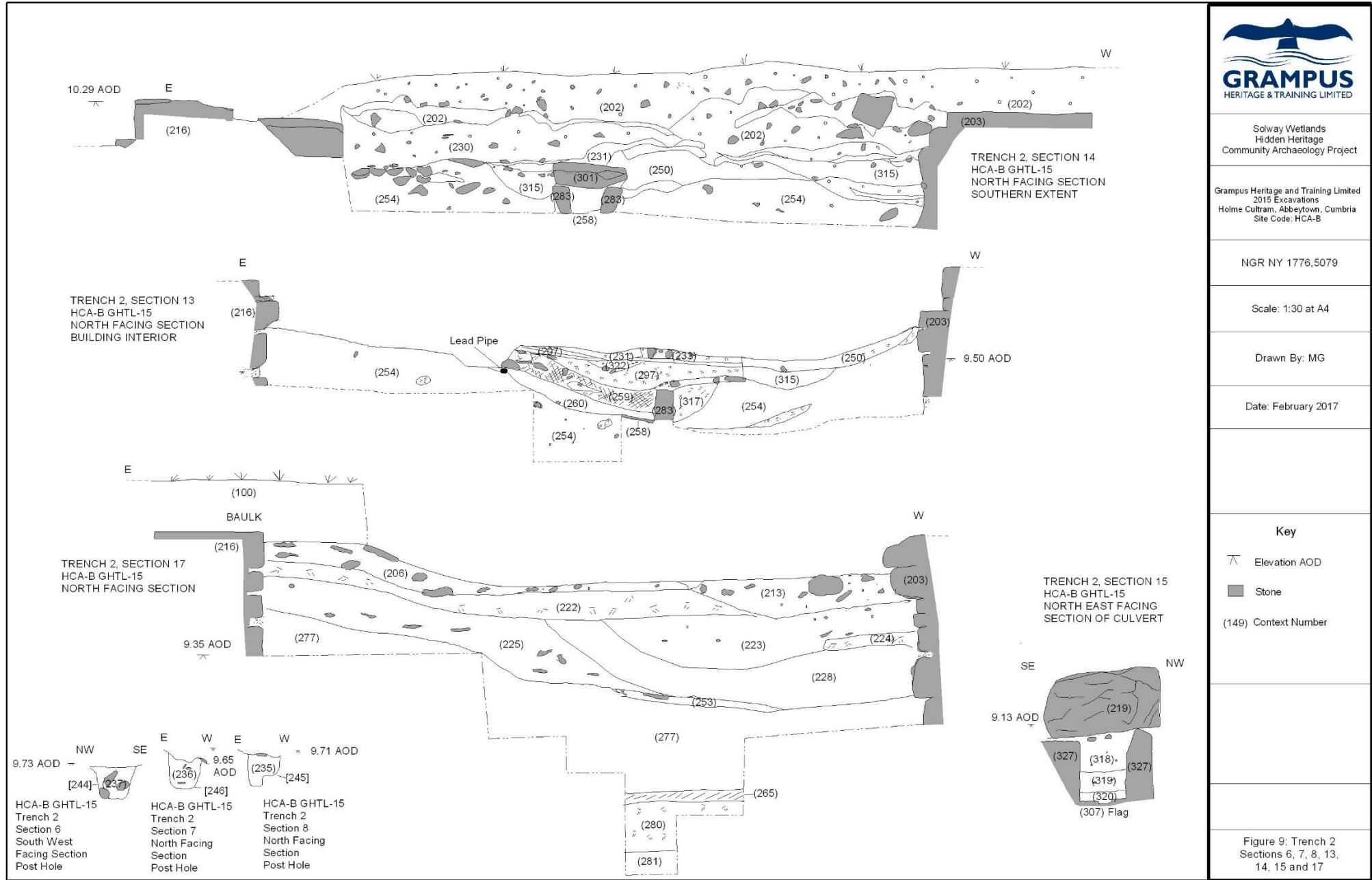


Key

- Stone
- Wall (Robbed)
- (125) Context Number
- Excavation Extent
- Hearth
- Latrine
- Fireplace
- Post hole

Figure 7: Trench 2 Plan





Solway Wetlands  
Hidden Heritage  
Community Archaeology Project

Grampus Heritage and Training Limited  
2015 Excavations  
Holme Cultram, Abbeytown, Cumbria  
Site Code: HCA-B

NGR NY 1776,5079

Scale: 1:30 at A4

Drawn By: MG

Date: February 2017

Key

Elevation AOD

Stone

(149) Context Number

Figure 9: Trench 2  
Sections 6, 7, 8, 13,  
14, 15 and 17

