Aden Country Park, Aberdeenshire, AB42 5FQ Excavation Report and Data Structure Report CA509 August 2021 (incorporating CA267, CA464, CA509)



# Alison Cameron Cameron Archaeology 23 November 2021

Aden Country Park DSR for excavations 2016, 2019 and 2021 Cameron Archaeology Ltd

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## SUMMARY

This report details findings on excavation of two stone structures in Aden Country Park in June 2016, August-September 2019 and August 2021. Teams totalling about 120 archaeologists, students and volunteers as well as staff, around 710 pupils from local primary schools and Mintlaw Academy and Aberdeen Young Archaeologists Club visited each year. Over 700 people visited the excavation during the digs. The excavations were carried out as part of the successful Aberdeenshire Council, Aden Country Park Restoration & Redevelopment application to the National Lottery Heritage Fund Parks for People programme.

A T-shaped building and a rectangular building to the N were excavated (other sites excavated are discussed separately). Structure 1 the T-shaped building has 5 doors with evidence of windows where window glass was recovered. There are no internal partitions and therefore it has been interpreted by the excavation team (including visits from Piers Dixon and Charlie and Hilary Murray) as one open space. The finds include coins, brooch, spectacles, window glass but no domestic rubbish – no pottery, vessel glass, bone. The first phase of window glass dates to the 16<sup>th</sup> century or early 17<sup>th</sup> century and the second glazing phase in the mid to latter half of the 17<sup>th</sup> century. The coins mainly date to the 17<sup>th</sup> century. The burnt wood on the floor was dated to 17<sup>th</sup> to mid 18<sup>th</sup> century and therefore the building could have been burnt down in the mid 18<sup>th</sup> century. The building has been completely dismantled to ground level including removal of all flooring apart from small areas of cobbles around the doors and this might suggest that there had been a wooden flooring within the building; the stone settings in the W wing of the building may have been remains of supports for wooden flooring or an internal structure. It is also possible that stone slab flooring been removed during the extensive demolition. In a later phase, large stones have been placed on the bank created by the demolished building, sometime decades after the demolition; these may have been set out by the later estate owners (Russel family) or by antiguarians who remembered the building and wanted to mark and commemorate it.

Structure 2, the associated rectangular building was more fully uncovered in 2021 after removal of trees and some roots that were inhibiting excavation in previous years. The buildings is c14.6m long and c4.6m wide. The walls are constructed of large earthfast medium and small stones bonded with sandy clay, very similar to Structure 1. The S room has a hearth on the S wall with cobbled surface around and an earthen floor around the periphery of the room. The fireplace is not aligned correctly for a flue through the S wall and therefore has been interpreted as a hanging lum. There is a door with threshold in the N end of the E wall. There is a door through the wall between Rooms 1 and 2. Ropom 2 could not be fully investigated as there are large tree roots which were not rotted enough to remove. The W wall of the room has a recess which has been possibly interpreted as a niche for a box bed. The N room has a door in the centre of the W wall opposite one in the E wall. The N wall is constructed in a very unusual manner with enormous earthfast stones; in between the stones small sections of smaller stone walls have been constructed. There is a clay floor and underneath this an earlier cobbled floor.

There is a stone-lined pit in the NE corner of the room which was constructed after the building went out of use (and presumably after it had been demolished). The pit is associated with a small fire-pit to the SW; unfortunately the area between the firepit and the stone-lined pit was disturbed by tree roots and it was not fully investigated. Samples from the fire-pit will hopefully allow an interpretation and date for the structure. It may have been a corn-drying kiln.

The walls and roofs had been completely dismantled in both Structures 1 and 2, presumably removed for re-use elsewhere on the estate.

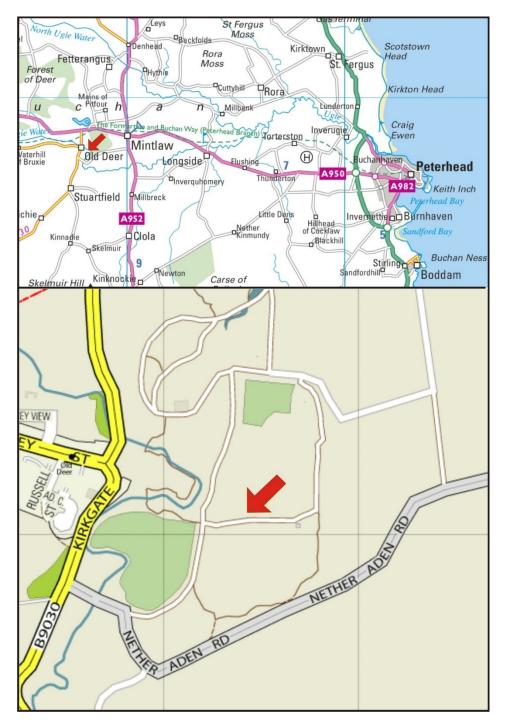
There is a 'boot-shaped' enclosure around them on the OS maps and by the 2<sup>nd</sup> Edition OS a path has been routed around the outside of the enclosure; trenches through this revealed large stones set on natural.

The team favour an interpretation of Structure 1 as a post 1500s (post-reformation) chapel, one storey, thatch roof; there was a discussion of sampling for thatch but there is so much disturbance from roots and animals within the building that this is unlikely to be successful. The building would have been large compared with the others in the area and we estimated could have held over 100 people. There is no explanation for the number of doors but we discussed an agricultural use and this seems unlikely. Structure 2 is a domestic structure at the S end and possibly agricultural at the N end. There is a tradition of a country manse which would have included accommodation for the minister as well as garden and fields for supplying the table of the minister and family.

A PERD (post-excavation research design) will be compiled, research carried out and publication will take place in ARO (Archaeology Reports Online).

#### **1** INTRODUCTION

- 1.1 Two buildings were evaluated in 2015 and further trenches were opened in 6-19 June 2016, 31 August-9 September 2019 and 16-28 August 2021. The structures are located within Aden Country Park in woodland WNW of Hareshowe at NJ 9821 4755 and in the parish of Old Deer and at 50-55m OD (Illus 1).
- 1.2 The 2019 excavation was carried out as part of a successful Aberdeenshire Council, Aden Country Park Restoration & Redevelopment application to the National Lottery Heritage Fund Parks for People programme with funding from Aberdeenshire Council Archaeology Service, Historic Environment Scotland and The Friends of Aden.



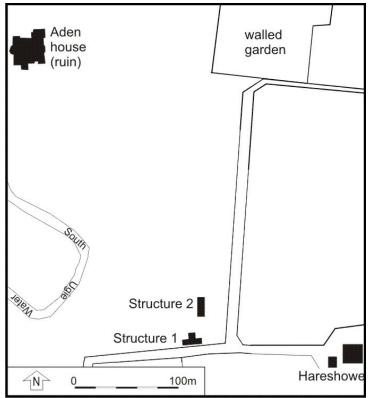
Illus 1 Site location (Contains Ordnance Survey data © Crown copyright and database right 2021).

## 2 ARCHAEOLOGICAL BACKGROUND

Aden Country Park is owned by Aberdeenshire Council and has a rich variety of archaeological and historical remains in the grounds. Two stone foundations have been identified in woodland within Aden Country Park (NJ94NE 63.11). The most southerly of these has been identified on Canmore as the remains of an Episcopal Meeting House (NJ94NE 70) (Cameron 2015). As part of a previous Book of Deer funded project, an evaluation was carried out by Murray Archaeological Services of a group of 27 circular enclosures or possible huts which lie in a plantation 40m N of the former stables of Aden House, now the North East of Scotland Agricultural Heritage Centre, between NJ 9805 4798 and NJ 9811 4819 (NJ94NE 88). They are possibly Bronze Age in date although there were few finds and this interpretation is provisional (Murray and Murray 2013). In 2009, trenching was carried out on the ground between the River Ugie and the graveyard at Old Deer parish church. There was no trace of the Monastery or activity which may have been associated with it, but two fire pits were unearthed, one dating back to 5000 B.C., and the other between 55 B.C and 140 A.D. (Lelong 2009). A watching brief was carried out on the west side of the walled garden prior to the construction of new garden workshops and remains of a Victorian glasshouse was uncovered (Cameron 2016).

## 3 STRUCTURE 1 (T-SHAPED STRUCTURE)

The 2016 excavation of two stone structures (Structures 1 and 2; Illus 2) in Aden Country Park was carried out from 6-19<sup>th</sup> June 2016 by a team of 36 archaeologists, Book of Deer members, students and volunteers as well as staff and nearly 300 pupils from local primary schools and Mintlaw Academy. Over 200 people visited the excavation during the dig. The 2019 excavation was carried out as part of the successful Aberdeenshire Council, Aden Country Park Restoration & Redevelopment application to the Heritage Lottery Fund (HLF) Parks for People programme. The excavation was carried out by a team of 45 archaeologists and volunteers, 15 Aberdeen Young Archaeologists Club with 10 parents and 165 local school children and 20 teachers and adult helpers. In 2021 further excavation revealed Structure 2 as fully as possible with large tree roots *in situ*.



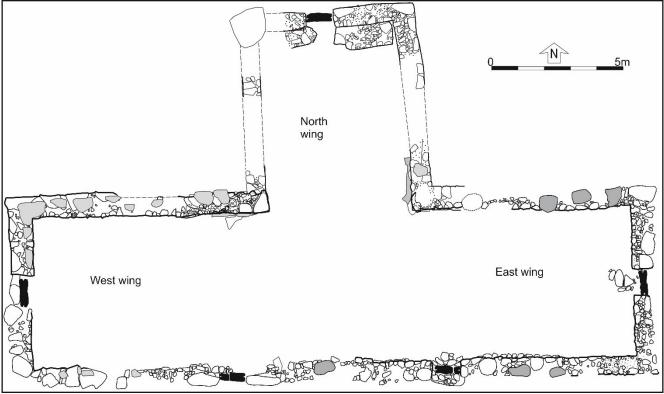
Illus 2 Plan showing Structures 1 and 2 with Hareshowe, Aden House (ruin) and the walled garden

## 3.1 Structure 1

Structure 1 (Illus 3) was evaluated in 2015 and 2016 and fully revealed in 2019; excavation into the foundations was carried out by University of Aberdeen Portfolio students in 2021 (see below). Stone demolition material was removed over the entirety of the interior of the building revealing burnt wood over clay floor levels. All of the walls had been heavily robbed (possible to build the early phase of the Aden Mansion House after 1758 when the Russel family purchased the estate) but the complete outline of the building was uncovered. Later large stones were added on to the top of the demolished foundations; at least 2cm of soil between these stones and the underlying foundation suggests that these stones were placed many years (decades; possibly in the 20<sup>th</sup> century) after the building had been demolished.

### 3.1.1 Phase 1

In Phase 1 a stone foundation was constructed in a T-shape, with the main rectangular section of the building being 22.3m long and 5.62m wide with the N 'wing' of the building being 5.7m W-E and 7.5m N-S making the total length N-S as 11.32m. The walls (Illus 3) were 0.8m wide and were constructed of large fieldstones including granite and quartz boulders with small stone hearting bonded the light brown sandy clay.

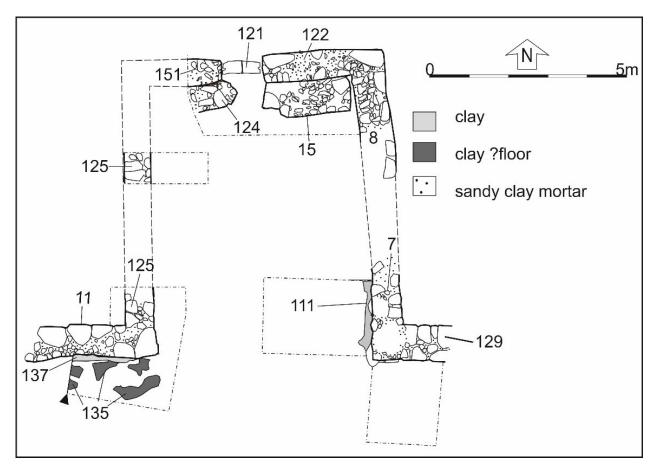


Illus 3 Plan showing main Structure 1

#### North 'wing'

On the north wall a doorway (121; Illus 3-5) was 1m wide with two flat threshold stones being 0.3m wide (Illus 5). The threshold stones have a socket at each end for the door jamb. The wall on the west side of the door, 151 (Illus 6, 7) has in situ plaster surviving on the inner (south) façade (149). This consisted of a layered clay-based concretion (Illus 13). The wall east of the doorway (122; Illus 3, 4) was constructed of large granite boulders forming the main structure of the wall with small and medium stone hearting bonded with light brown sandy clay. Parallel to the north wall and on the interior of the building is another substantial wall (15; Illus 3). 124 was medium and small stones with light brown sandy clay and as excavated in 2019 and found to be demolition rubble. Context 15 was

medium and small stones set in a medium grey clay loam; it may be contemporary with the main structure and may represent remains of internal structures such as stairs.





The junctions of the main rectangular structure and the extension were investigated (walls 7/129 and 11/125; Illus 10, 11) revealing that the T-shaped structure was built in one phase. On the interior of the structure several areas of possible floor levels were uncovered. In the main rectangular structure areas of floor 135 (Illus 4) and 114 consisted of compact level clay deposits. Along the interior edge of the walls at floor level are strips of light brown clay (137, 111), possibly sealing the top of the foundation. Under wall 7 is a shallow trench, 155, filled with medium grey clay loam (Illus 4), under clay 111. This was initially interpreted as a possible foundation cut for this wall but the stones of the wall sit on top of 155 and not on the natural subsoil layer into which it was cut. This cut is not seen in other locations and further investigation would be required to determine whether this is an earlier feature such as a furrow into which the wall was unintentionally constructed. One rim from a late medieval or early post-medieval jug was found associated with the construction of this building and there were no other finds from the Phase 1 structures.



Illus 5 Entrance on N wall; facing N

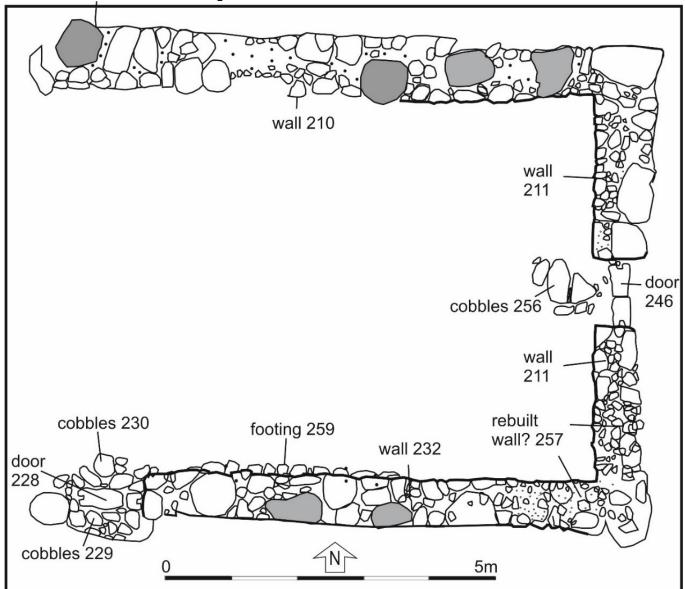


Illus 6 Threshold 121 facing S



Illus 7 Section showing threshold 121 (right foreground), wall 151 (centre), wall foundation 124 (left)with stone demolition material (top and right); facing W East 'wing'

The E wing (Illus 8) has a door in the E wall (246; Illus 9) and one in the S wall (228; Illus 10). Both are 1m wide and the threshold is constructed of two flat stones with a socket for the door posts at each end. The S wall has a footing (259) to the E of door 228. It is possible that this slightly wider foundation is for a larger element of the building such as a tower. The wall in the SE corner appears to have been rebuilt (257); further work in 2021 suggested that the foundation is consistent with the rest of the structure. The wall is constructed of small to medium fieldstones with sandy clay bonding material unlike the construction of the other walls of the building but this is now thought to be a relic of the demolition rather than the original construction.



Illus 8 East 'wing' with E door 246, S door 228 and stone cobbled surface 256



Illus 9 E door 246 with remains of interior cobbled surface (256; left); facing N



Illus 10 Door 228 with interior cobbles (230; foreground) and exterior cobbles (229, entre top); facing S

There are the remains of cobbled surface 256 (Illus 10) on the interior of door 246 slope up into the room at a slightly higher level from the threshold suggesting that they may be the remains of a later floor surface. Door 228 has internal (230) and external (229) cobbled surfaces. There was no possibility of excavating farther south as there are living trees with large roots along this edge of the structure. Discussion has been taking place with the park manager to remove these trees but at the present time they are creating a wind block and it would be detrimental to the rest of the wood to remove them at the present time (Jack Grant pers comm).



Illus 11 SE corner of E wing showing small stone construction; facing NW

#### West 'wing'

The W wing has a door in the S wall (226). The jambs of this door are very unusual; on the exterior they are constructed of two large (1.35 x 0.5m) boulders which would have been visible be the exterior of the building when it was harled. This door is 0.9m wide (slightly narrower than the other four doors) must have been original to the construction. The threshold is constructed of two flat stones with a socket for the door posts at each end. The wall around this door has been very disturbed by tree roots. There is a door on the W wall (212) which is 1m wide and the threshold is constructed of two flat stones with a socket for the door posts at each end. This door posts at each end. This door has been blocked with large stones in mortar (258). Below the demolition level were a series of curious stone settings (221-224, 250-253; Illus 15, 16). They appeared to be post settings but when excavated the stones had been pressed into the underlying soil level and there was no post-hole cut. 225 was an ephemeral line of stones which appeared to be associated with 221-224. They appeared to be set out in an arc and may have been for small (0.06-0.01m) posts for internal fitting such as furniture.



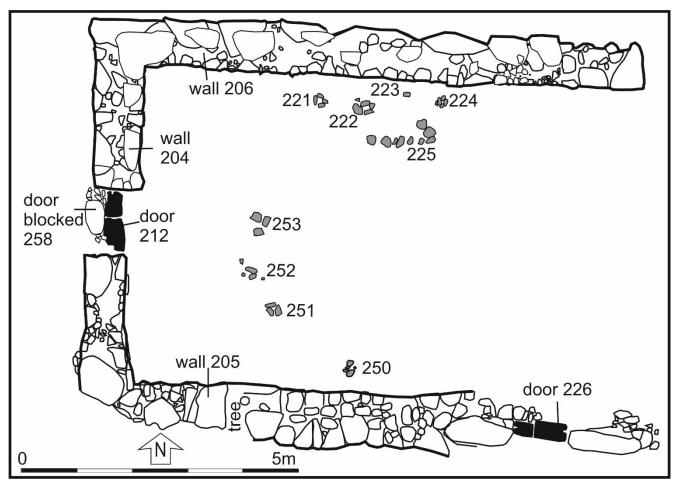
Illus 12 Door 226 showing large jamb stones on either side of threshold; facing N



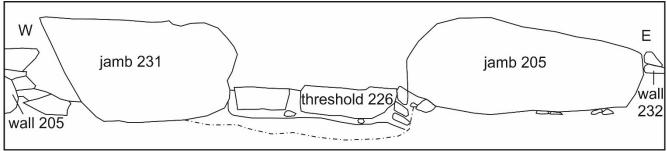
Illus 13 Door 212 showing blocking stones behind. The large stone (top left) is one of the Phase 3 stones; facing W



Illus 14 Possible cobble stones 177 left above ground with wall 204 in the background; facing W



Illus 15 West wing walls with west door 212, south door 226 and stone features 221-225, 250-253



Illus 16 External elevation of door 226



Illus 17 Stone setting 222; facing N



Illus 18 Internal (south) face of wall 11 showing clay 'floor' levels 135; facing N



Illus 19 External corner junction of wall 11 (right) and wall 125 (left) after removal of demolition material showing they were constructed in one phase; facing SE



Illus 20 External junction walls 7 (right) and 129 (left) after removal of demolition material with Phase 3 dumped stones (2) on top; facing SW



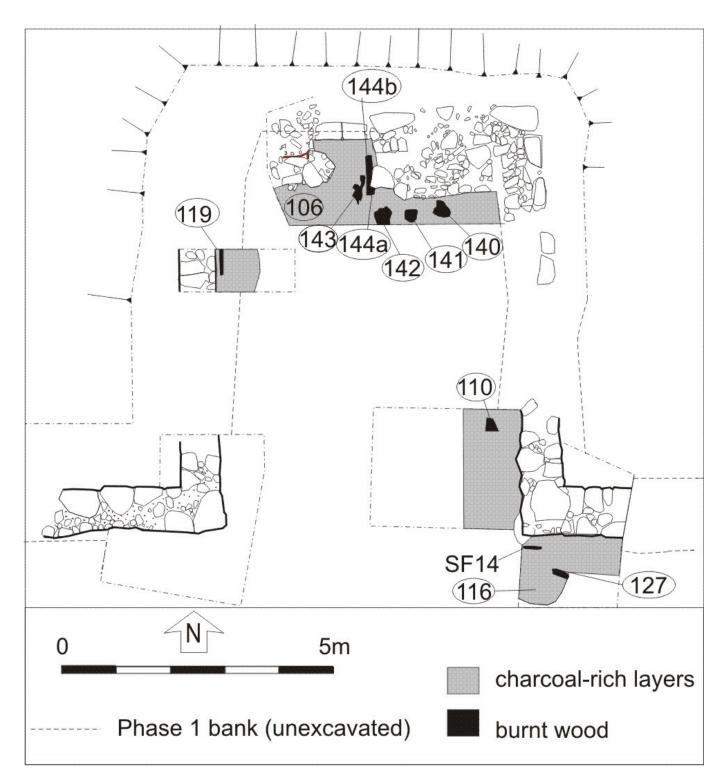
Illus 21 'Plaster' 149 on internal (south) face of N wall 151



Illus 22 Fragment of 'plaster' 149 showing clay layers forming wall covering

## 3.1.2 Phase 2a Structure 1

On the interior of the building and lying immediately above the floor levels, are areas of burnt wood (Illus 23-5). On the interior (south) side of doorway 121 were well preserved lumps of burnt wood (140, 141, 142 (Illus 24), 143, 144), along the west wall 119, to the west of the east wall, 110 and to the south of this wall 116, 117 and SF14 (Illus 25). These were sampled and will be sent for wood identification and dating which will hopefully reveal dates for the felling of this wood which was presumably parts of the superstructure of the house including roof timbers. There is no other evidence for dating of the construction of the building at this time.



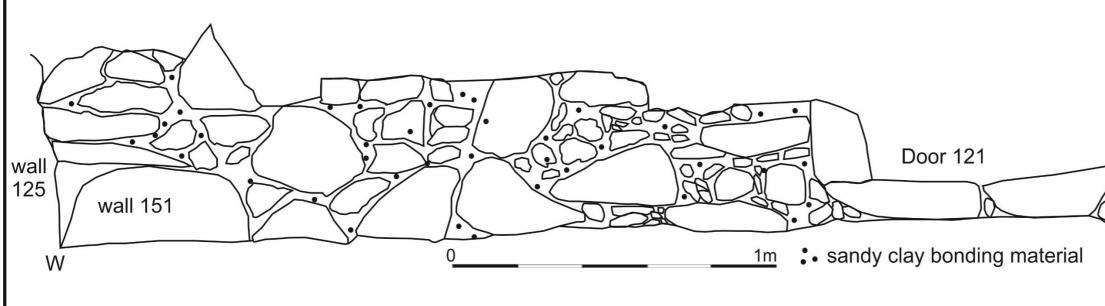
Illus 23 Structure 1 Phase 2 burnt wood samples (2016 dig only)

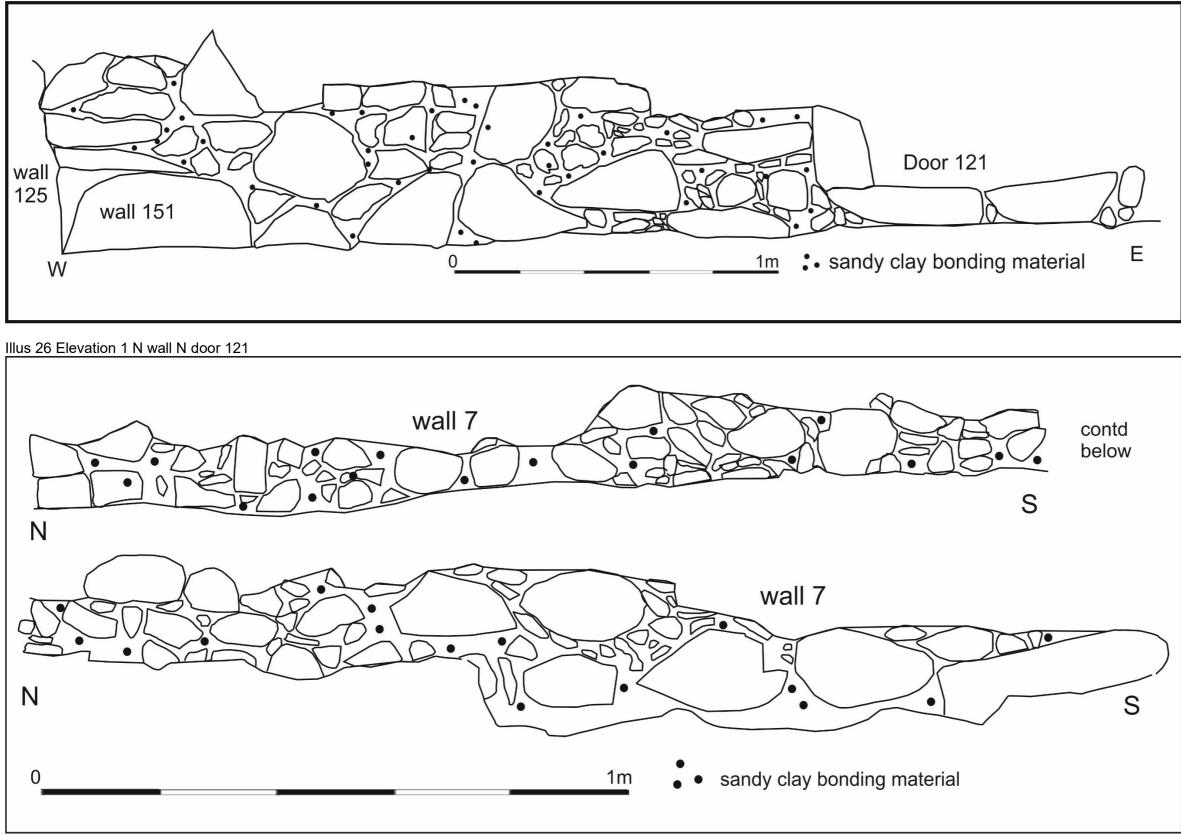


Illus 24 Burnt wood 142 inside door 121; facing N

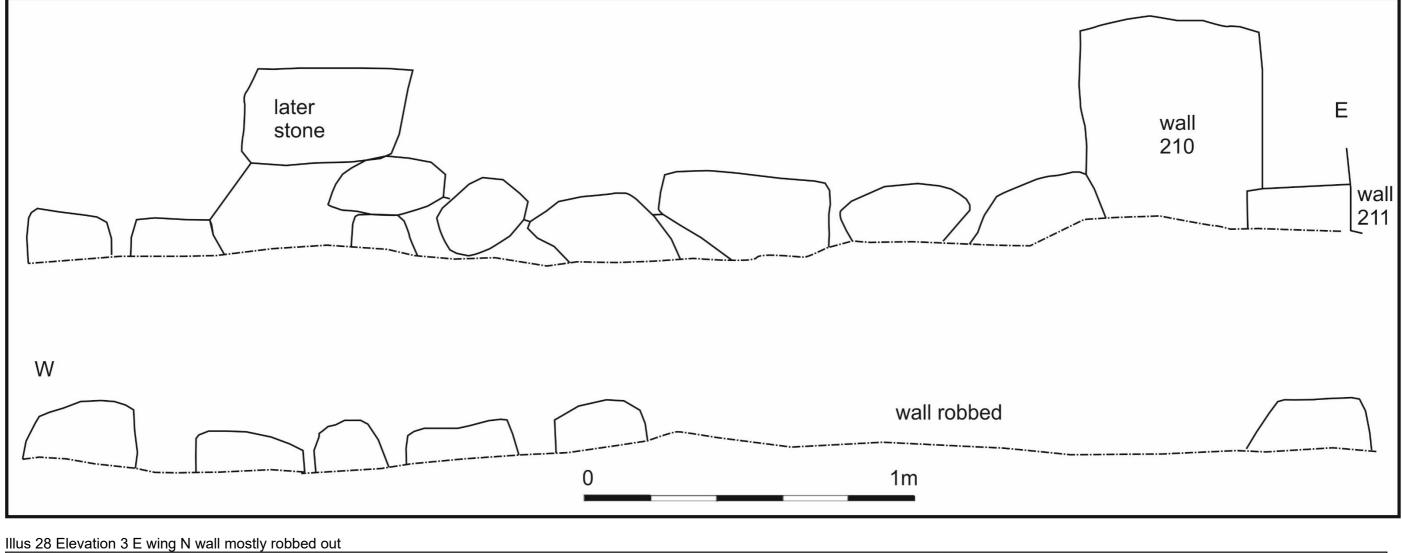


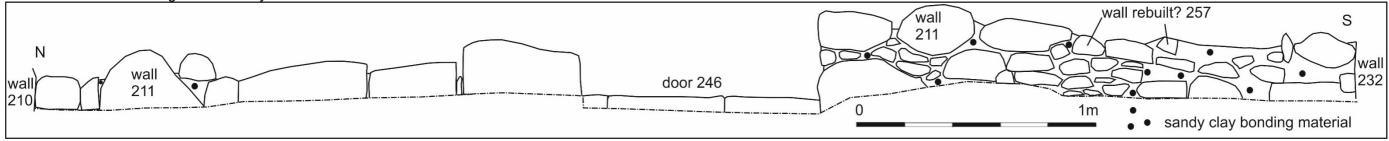
Illus 25 Burnt wood SF14 adjacent to wall 129; facing N



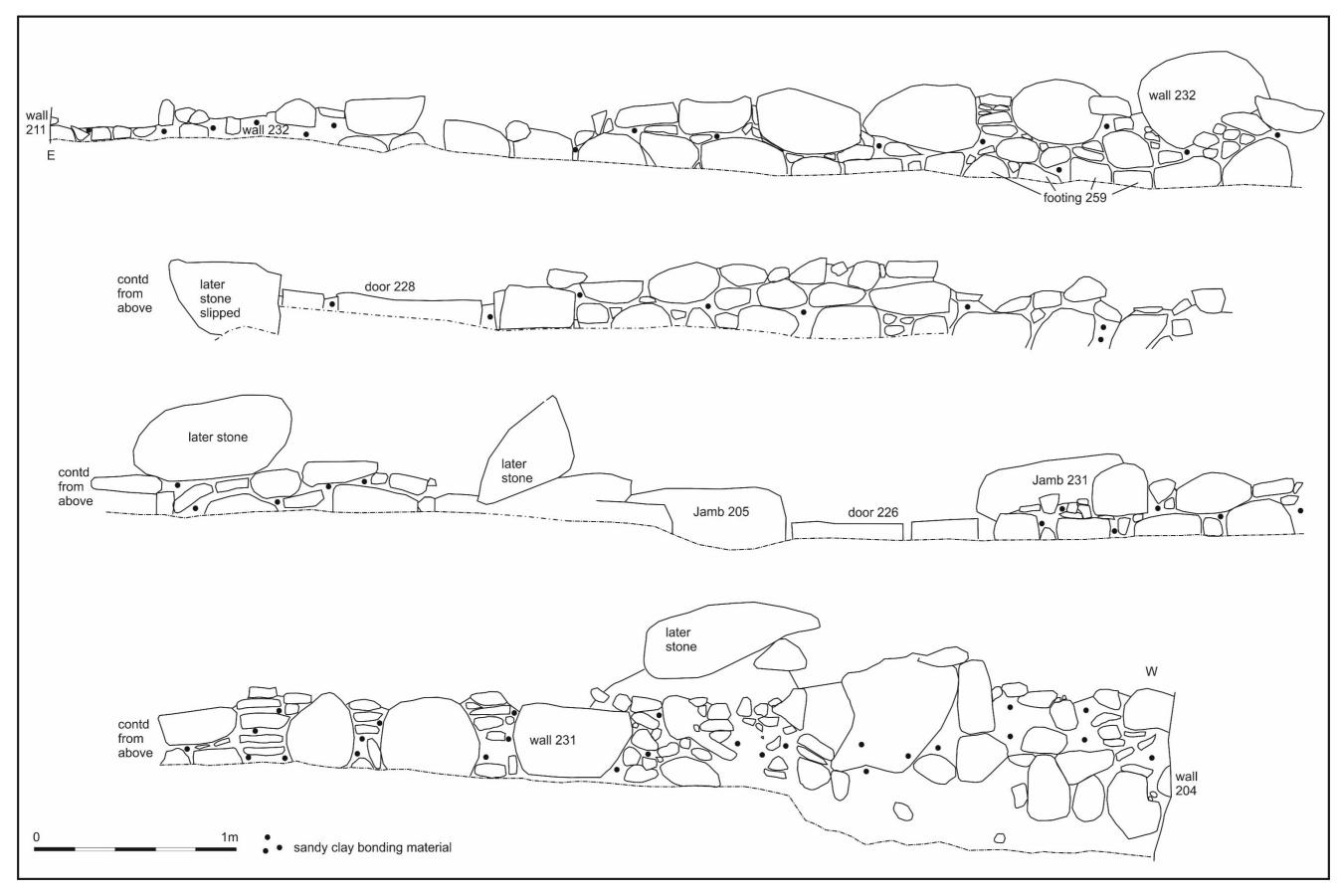


Illus 27 Elevation 2 N wing E wall

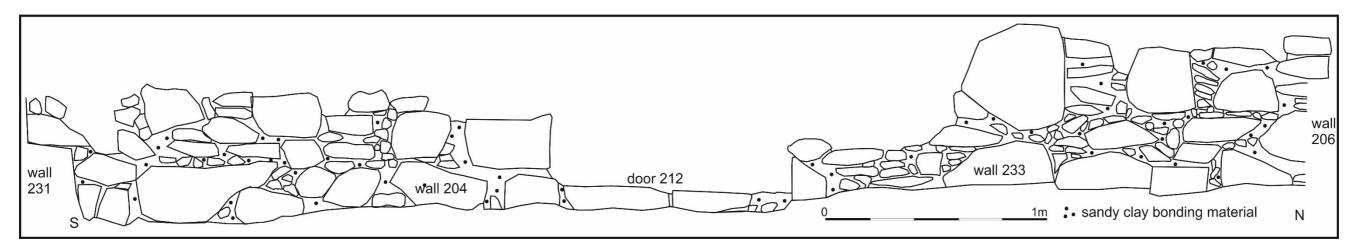




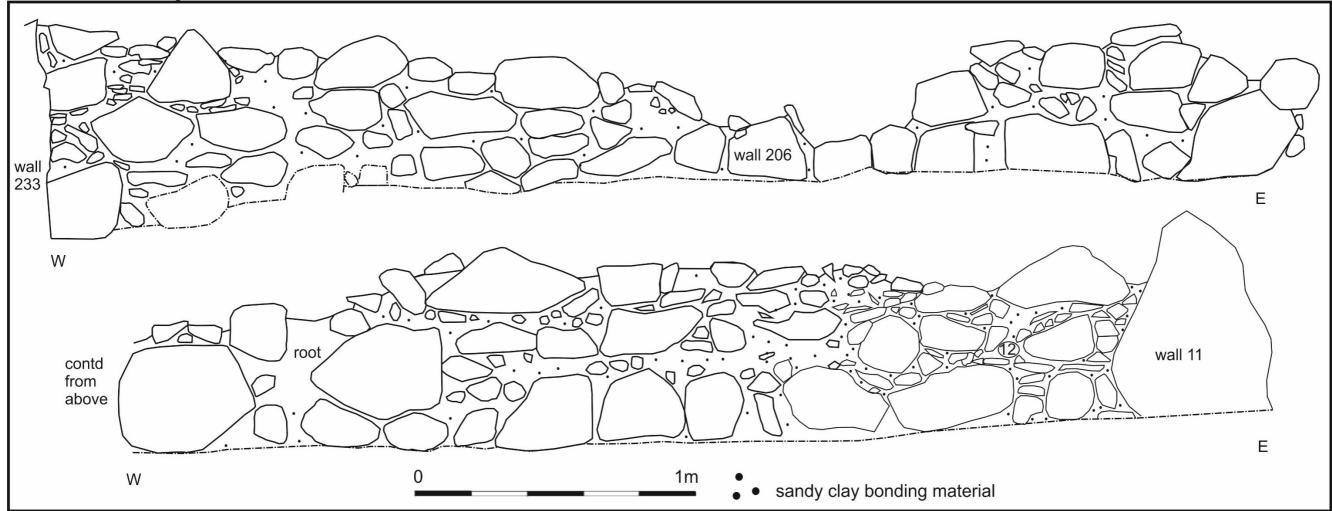
Illus 29 Elevation 4 E wing E wall door 246



Illus 30 Elevation 5 S wall doors 226 and 229



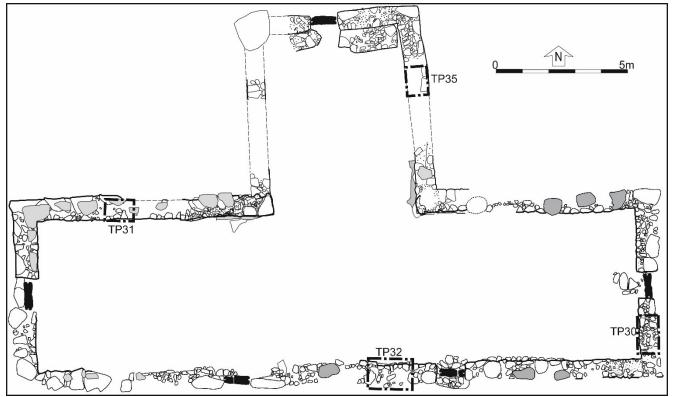
Illus 31 Elevation 6 W wing W wall door 212



Illus 32 Elevation 7 W wing N wall

## 3.1.2 Trenches through foundation 2021

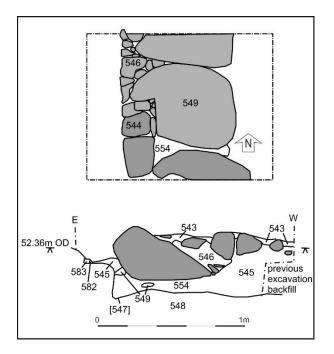
In August 2021 sections were taken through the foundations of Structure 1 by University of Aberdeen Portfolio students (Illus 33).



Illus 33 Locations of 2021 test pit locations through building all foundations

#### Test Pit 30

TP30 was excavated in the E wall S of doorway 246. The wall foundation consisted of large stones (549; Illus 34) set in sandy clay bonding material (546). The lower fill of the foundation trench 554 contained pockets of charcoal (582, 583) and these will be dated to determine if these will help ascertain a construction date.



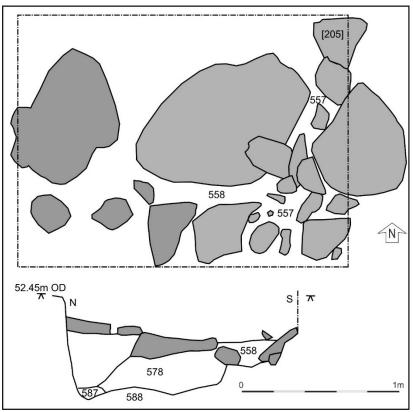
Illus 34 Plan (top) and section (bottom) of TP30

Test pit 31

This test pit revealed similar to TP30 large foundation stones (564) in sandy clay but it was not possible to achieve the base of the foundation trench.

#### Test pit 32

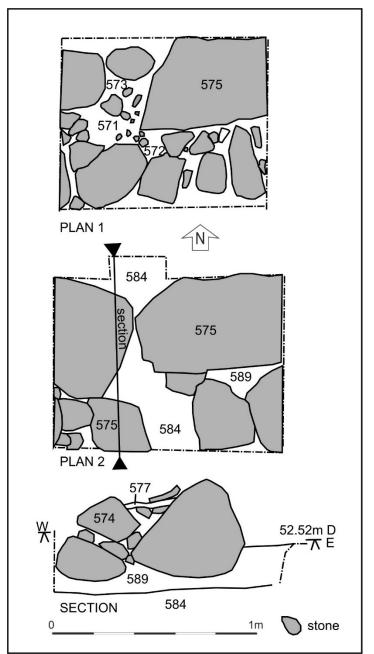
This was excavated through the S wall of the building between doors (Illus 35) showing large stone foundation, small stone and sandy clay infill and demolition material spread on top.



Illus 35 Test pit 32

## Test pit 35

Test pit 35 was excavated through the E wall of the N wing of Structure 1 (Illus 36). It revealed very large stones (575) in the bottom of a shallow foundation trench with smaller stones in situ above (574).





### 3.1.4 Phase 2b demolition

In both 2016 and 2019 excavations several areas of stone demolition were removed (103, 112, 115, 117, 118, 139; Illus 37, 38). These consisted of small stones with lumps of walling (eg 118) and light brown sandy clay wall bonding material. These layers overlay the burnt wood layers of Phase 2a and because of their loose nature they were badly disturbed by tree roots.

Finds from these layers include 17<sup>th</sup>- and 18<sup>th</sup>-century coins, window glass, spectacles, copper alloy book fittings and a copper alloy brooch (see finds below).



Illus 37 Stone demolition material 117 over wall 125; facing W, note the root tracks which have damaged the structures and moved stones



Illus 38 Structure 1 Phase 2 stone demolition material

#### 3.2 Phase 3

In Phase 3 large stones were rolled over the bank which was the remains of the demolished Structure 1 (context 2, Illus 39, 40), approximately the same size and shape as the Phase 1 building. Some of the Phase 1 stones had been left above the ground surface and they have been reused in the Phase 3 structure.

A large stone slab 1.05 x 0.88m in size (82; Illus 41) had been placed in the short arm of the T-shaped structure and there is a suggestion that this stone had been placed to form a platform. It had been placed over demolition material from the building and had been heavily burrowed underneath.

A layer of soil between the top of the wall foundation (156) and the Phase 3 stones suggested there had been a considerable period between the demolition of Structure 1 and Phase 3.



Illus 39 Structure 1 Phase 3 rolled stones and flat stone, 82 and Phase 3-4 stone settings 109.



Illus 40 S wall foundation with large curved stone left and reused in Phase 3; facing S



Illus 41 Stone platform, 82

#### 3.3 Phase 4

A semi-circular setting of medium stones, 109 (Illus 42), 1.2m diameter was probably constructed for a fire setting. This features is sitting on top of Structure 1 demolition material 106, and may therefore be associated with the Phase 3 stone setting or may be later. The Phase 4 activity at this building includes at least two of the Phase 2 stones being relocated and a small number of modern finds from visitors to the park. There is a possibility that this was a fire setting for the Phase 3 structure but it could equally be a later feature. The stones are not themselves burned.



Illus 42 Phase 3 or 4 stone setting 109; facing NN

## 4 STRUCTURE 2 (RECTANGULAR BUILDING)

Structure 2 was located to the N of Structure 1 (Illus 2) and was a rectangular stone foundation 15.3m long and 4.3m wide on a N-S alignment. The structure was uncovered partially in 2016 and then trees cut down and excavation continued in 2021.

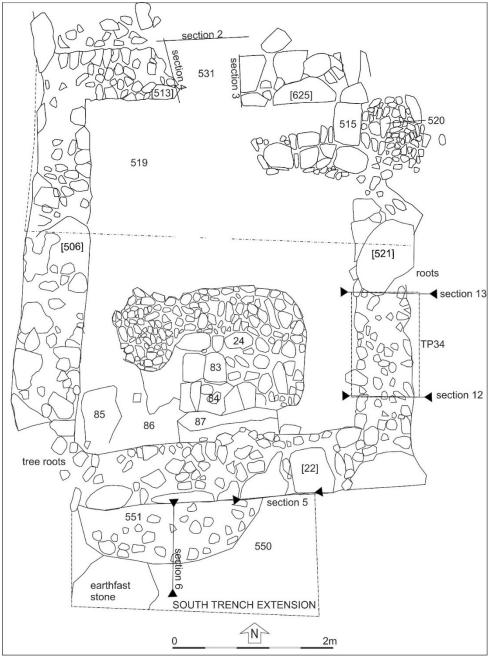
The interior width is 3.2m. The wall foundations had been badly damaged in parts by tree roots and burrowing but where they were well-preserved it was possible to determine that their construction was the same as Structure 1, large granite stones with smaller stone hearting with sandy clay bonding material, 0.8m wide (see above). The S wall was neatly constructed whereas the N wall foundation had been constructed using larger boulders roughly placed (Illus 43).



Illus 43 Drone photo of Structure 2 (courtesy of Malachy Curran) Room 1 (south)

The south room (Illus 44) was approximately 4m long (N-S) and 3.2m wide (W-E). A large tree in the centre obscured the building on the previous excavations and this has been removed allowing access to more of the building and revealing of the partition wall between Rooms 1 and 2. The N and S walls of the room are not parallel with the W wall being slightly longer.

The walls are 0.8m wide and stand on the interior to a maximum of 0.45m high above floor levels. The walls are constructed of large boulders with medium and small hearting stones. The walls are bond with light brown sandy clay very similar to that used for Building 1. There was no evidence of plaster or any other wall treatment.



Illus 44 Illus 45 Room 1



Illus 46 Hearth 83 surrounded by cobbled surface 24 with south wall 22 in background; facing S  $\,$ 



Illus **47** Detail of hearth 83 with burnt deposit 84 (centre) and wall 87 attached to main south wall 22 (bottom); facing N

COBBLED SURFACE 24 AND FIREPLACE

In the S room a cobbled stone floor (24; Illus 46, 47) was roughly semi-circular in shape, 2.3 x 1.4m in size and constructed of well-laid rounded and angular boulders set into a dark grey clay loam. One stone appeared at first glance to be a brick was a shaped red sandstone

block (Illus 42). This floor surrounded a hearth 83 which consisted of five large flag stones and three smaller flat stones to the N (Illus 46).

The hearth has been laid in the centre of the S wall in front of a tapered wall fragment attached to the interior of the main south wall (87; Illus 47). There was a deposit of charcoal and burnt sand on top of the flagstones. The floor around the cobbled surface was light brown sandy clay (86) and in the interior SW corner of the building was a large flat slab (85; Illus 40). There is an area stones at floor level on the E side of the room (90; Illus 40) and these may be part of a disturbed floor or stones pushed from the E wall by an adjacent tree. The fireplace has been interpreted as the remains of a hanging lum as the remains do not fit with a more traditional fireplace. The hood of the lum would have hung over the area of 83 where the fire had been set.

There is no evidence of burning around the hearth or of slag or anything else suggesting an industrial use for the hearth.

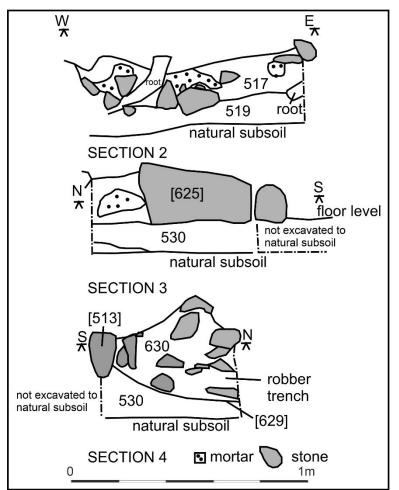
A slate was found on floor surface 519 on the 2021 excavation (SF464; Illus 48); it has scratches on one surface VV or WW and has been suggested by several sources that it is a apotropaic mark (Kevin Grant pers comm).



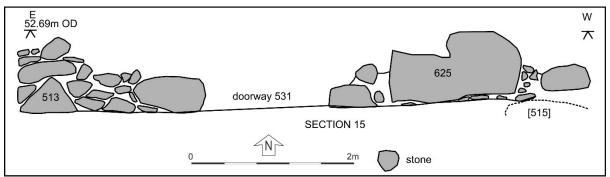
Illus 48 SF464 slate with scratch marks VV or W?

#### WALL [513]/[625]

The wall between Rooms 1 and 2 was fully uncovered in 2021 following removal of tree roots. The wall is formed by two sections of wall separated by doorway 531. The W half of the wall is 0.62m wide and constructed of small and medium stones with a sandy clay bonding; it is fully bonded into the W main wall of the building (Illus 44). There is evidence of robbing in Section 4 where robber cut [629] can be seen (Illus 49). The E half of the wall, 625, is 0.68m wide and constructed of large boulders with sandy clay bonding; the E end of the wall where it met the E main wall is disturbed by tree roots. The reason for the different thicknesses and constructions may be that the E half was rebuilt possibly when the door was inserted. Gap 531 (Illus 50) has no threshold stones but the earthen floor continues between Rooms 1 and 2. This may be because there were no internal threshold stones which may not have been required when moving between internal rooms or they may have been robbed when the rest of the building stone was removed for re-use elsewhere.



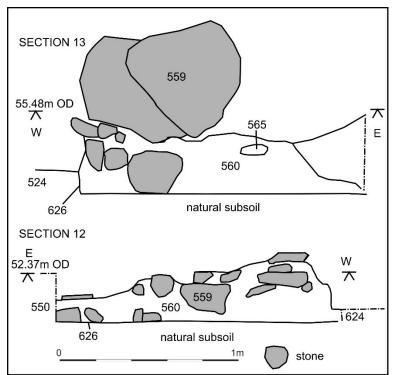
Illus 49 Sections 2 of floor level in Room 2 and Sections 3 and 4 of wall [513]/[625] between Rooms 1 and 2

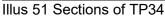


Illus 50 Section 15 wall 513 N façade

TP34

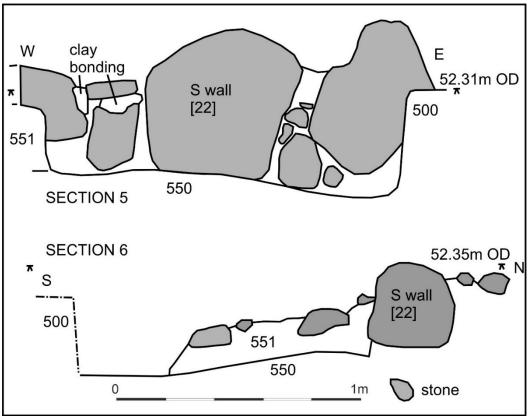
TP34 was dug in an area where the E wall of Room 1 was very poorly preserved to allow for access to the foundation (Illus 44). The stone and mortar surviving in shallow trench (560 in [626]; Sections 12 and 13, Illus 51) indicated that this is the remains of the robber trench suggesting that the larger stone which had presumably formed the wall foundation had been completely robbed.





## SOUTH EXTENSION TRENCH

An extension was excavated to the S of Structure 2; a semi-circle of small and medium angular stones with sandy clay bonding material was uncovered (551) 2m W-E and 0.7m N-S. The dry sandy loam around 551 contained a fragment of iron cauldron (SF466 Illus 54) and a large earthfast stone was recorded at the SW corner of the trench. 551 is probably an area of demolition material where the S wall of the building was demolished and larger re-usable stones removed for re-use elsewhere.



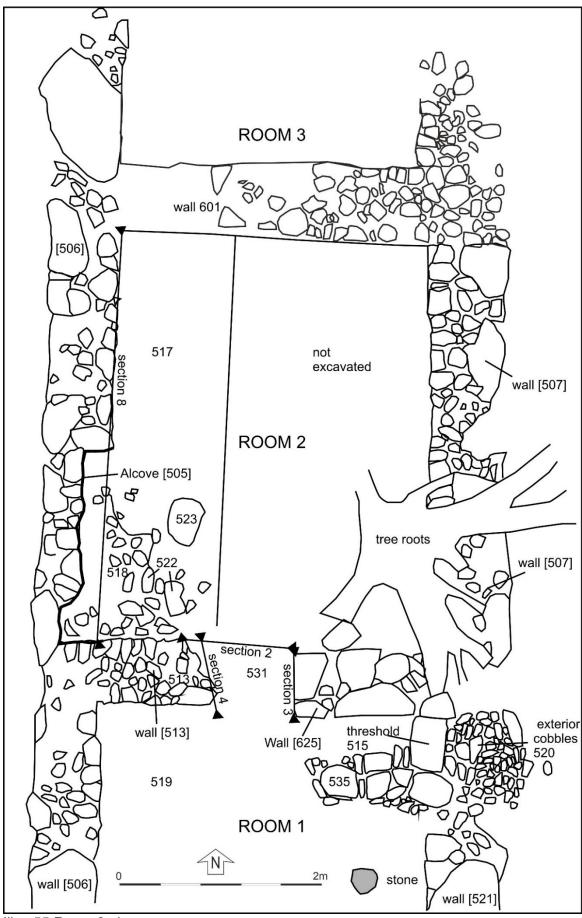
Illus 52 South extension trench Sections 5 and 6



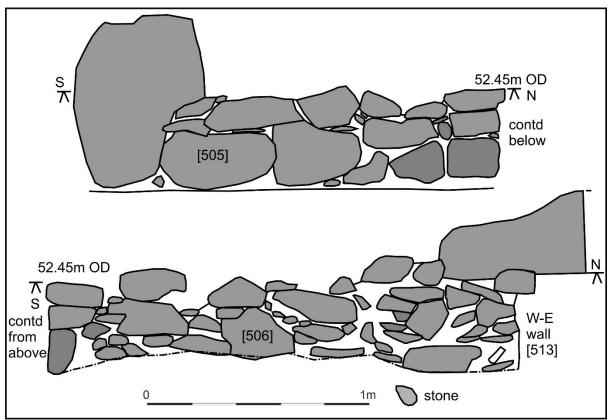
Illus 53 Demolition material 551; facing N



Illus 54 Iron cauldron fragment SF466



Illus 55 Room 2 plan



Illus 56 Section 8 W wall of recess [505]



Illus 57 W wall [506] left contemporary with partition wall [601] (right); facing NW

#### **ROOM 2 (central room)**

Room 2 is 3.2m W-E and 3.9m N-S (Illus 55). The W wall is constructed of small and medium stones with sandy clay bonding (Illus 57); it is 0.63m wide at the N end; there is a narrower portion of wall at the S end 0.38m wide caused by an alcove or recess 0.26m wide and 1.85m long (505; Illus 56, 58). The N wall, 601, of Room 2 is 0.6m wide; stones have been removed from the central area of the wall and it was though this was a possible door but further excavation in 2021 revealed that there is no doorway in this wall. The E wall, 507, is 0.7m wide and quite disturbed by a large tree root.

The W third of the soil within the room was removed to floor level but the remainder of the room was left unexcavated as it is very disturbed by tree roots.

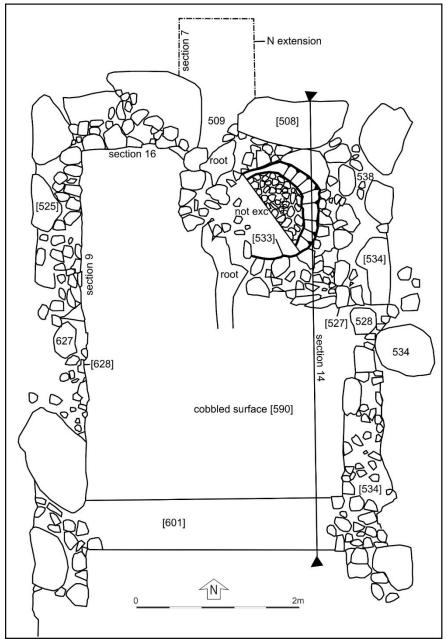


Illus 58 Recess 505

### ROOM 3 (N room)

Room 3 is the northern room; it is 3.1m wide (W-E) and 4.5m long (N-S) (Illus 59). The W wall is 0.75-0.8m wide and constructed of very large, medium and small stones bonded with light brown sandy clay. A door in this wall [628] (Illus 60, 63), 0.73m wide, consisted of a large flat stone (Illus 63 Section 9); during demolition loose stone had tumbled into the doorway. The E wall [534] is 0.67m wide but is in poor condition over much of its length where it has been disturbed by tree roots. There is a door opposite the W door [528] (Illus 61), 0.84m wide, which consists of two threshold stones with a large flagstone on the exterior. The N wall is constructed of enormous earthfast stones (Illus 62 Section 7) roughly placed in a line with fragments of constructed wall in between (Illus 62 Section 16).

Prior to 2021 the floor of this room was a dirty light brown clay (532) but trial excavation below this surface in 2021 revealed a complete cobble floor (590; Illus 43). It was sloping down to the NW corner of the room.



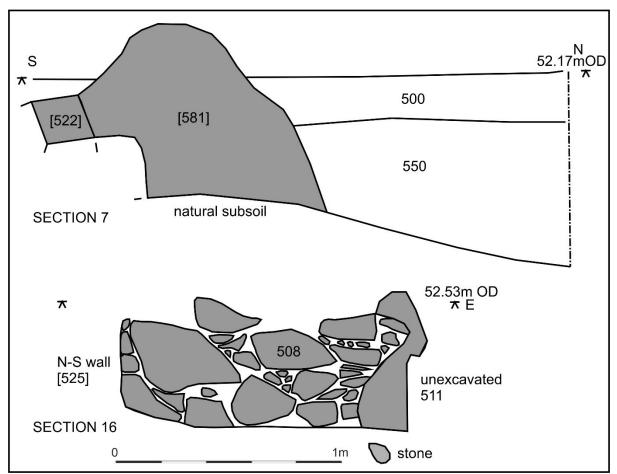
Illus 59 Room 3



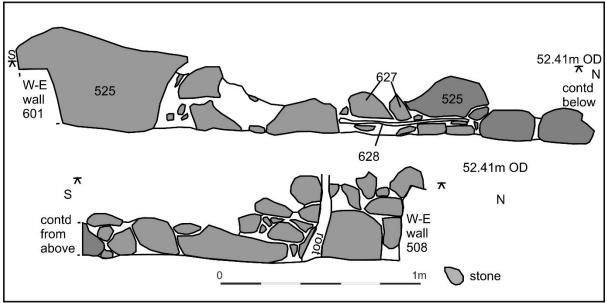
Illus 60 Room 3 W wall doorway 628 with cobbled surface 590 (right); facing N



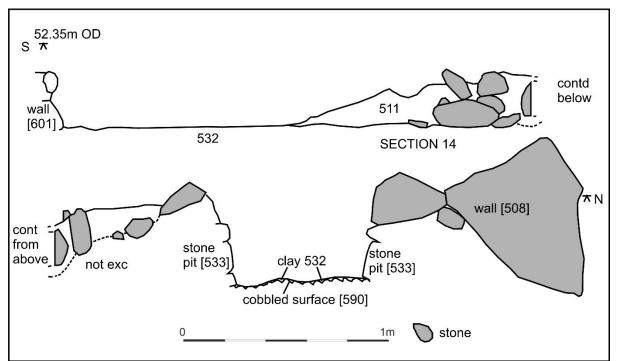
Illus 61 Room 3 E door with threshold stones [528] with cobbled surface 590 (top); facing W



Illus 62 Sections 7 and 16 showing large earthfast stone N wall [581] with infill small stone wall [508]



Illus 63 Section 9 showing threshold 628 (top)



Illus 64 Section 14 through Room 3 showing pit 533 on top of cobbled floor 590

# Pit 533=81

In the NE corner a circular stone-lined pit, 81 (Illus 64-66) was about 1.2m diameter, although a tree was positioned on the NW edge and this had damaged the edge of the pit and loosened stones. There is a base course of large stones with upper courses in small and large stones. The stones had been bonded with light brown sandy clay mortar and the base was the natural light brown sandy clay. The fills were demolition materials including stone and sandy clay mortar lumps. The fill had been disturbed by root activity. There were no finds and nothing dateable from the fill. In 2021 the pit was investigated further and it was discovered that this pit was sitting on top of cobbled floor of Room 3 (590) and appears to be partially constructed of demolition material from Structure 2. It is therefore later than the structure and probably constructed after the building went out of use.

Cut into cobbled floor 590 is a shallow pit [552] which is heavily burned, surrounded by and filled with burnt clay (622) (Illus 67-68). The area between pit [533] and pit [552] is filled with roots and the stones are very disturbed but there was burning under the roots suggesting that there was probably a shallow flue joining the two pits. It was decided not to excavate further as the risk of damaging [553] was high.

Samples will be crucial to understanding this feature but it is likely to have been a corndrying kiln with [552] being a heat source for heating the pit.



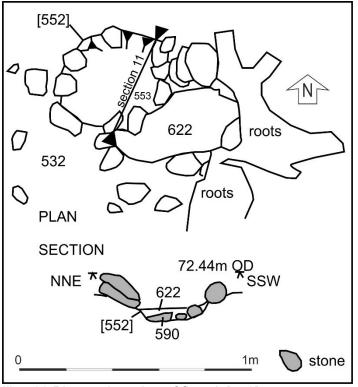
Illus 65 Stone-lined pit 553=81 showing clay bonding between stones; facing NE



Illus 66 Stone-lined pit [553]=81 with cobbled surface 590 below; facing W



Illus 67 Fire-pit [552] with outer wall of pit 553 (top left) prior to cobbled floor 590 being uncovered; facing E



Illus 68 Plan and section of fire-pit [552]

### 3.2.1 Building 2 demolition

The layer removed above Building 2 contained no charcoal, no traces of burning and very few finds. There was little demolition material, few stones and only two fragments of slate and a small number of ceramic roof tile suggests that this building may demolished much later and all materials systematically removed from site.

# 5 CLEARANCE CAIRN 154

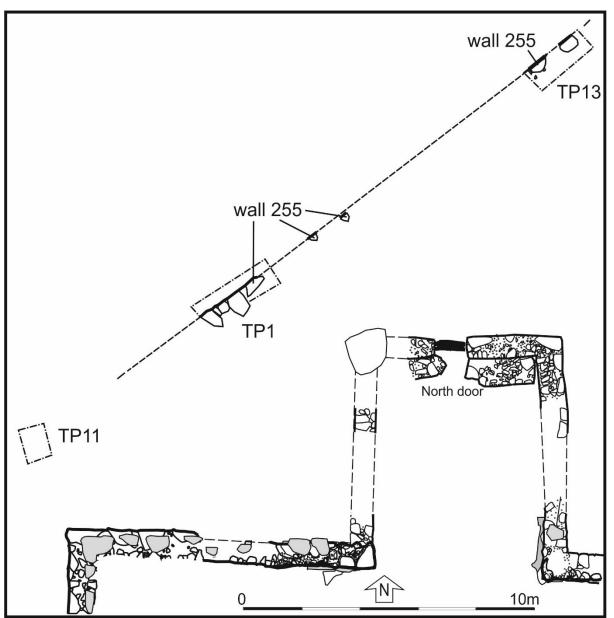
A walkover of the wood revealed a possible stone structure (154) but this was uncovered and identified as a clearance cairn, recorded and backfilled (Illus 69).



Illus 69 Field clearance 154 uncovered whilst investigating possible field boundaries

# 6 WALL 255

This wall (recorded in TPs 1, 11, 13) is formed by large boulders which have been roughly worked on one side to form an edge on the NW façade (Illus 70, 71). The boulders are set on to the natural subsoil and there is a depth of loam built up around them.



Illus 70 Plan of TP1, 11 and 13 showing wall 255



Illus 71 255 in TP13 with TP1 and TP11 in background; facing SW

On the First Edition OS map (Illus 61) the 'boot' shaped enclosure exists in which these foundations sit. By the Second edition OS map (Illus 62) a path has been created on the exterior (E side) of this wall with a path off to the SE between Buildings 1 and 2. This wall may be of an 18<sup>th</sup>-century date or earlier; there was no dating evidence with the structure itself.

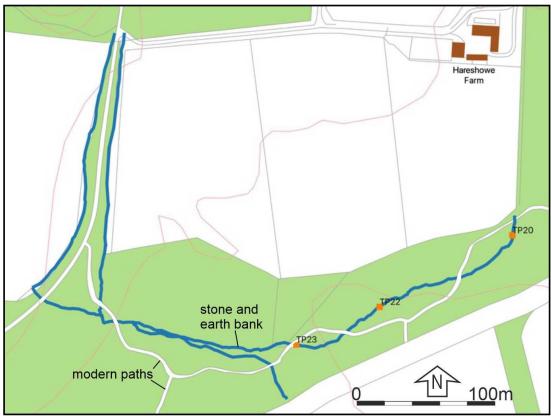
Test pits were excavated in the woods between Structures 1 and 2. A bank was recorded, probably associated with tree planting and large earthfast stones were recorded. No other structures were identified.

# 7 THE STONE AND EARTHEN BANK 539

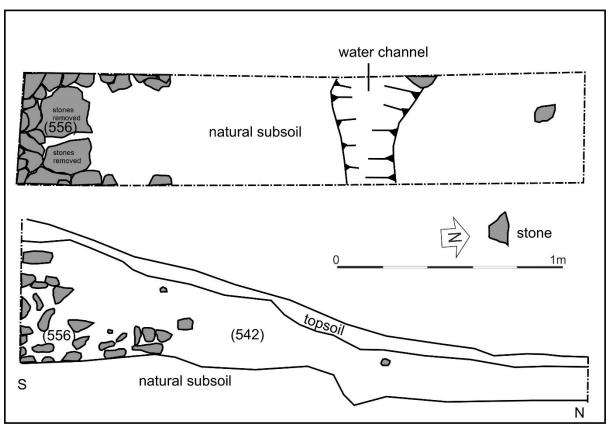
A stone and earthen bank [539] was traced across Aden estate (Illus 72) and three locations were identified to determine the date of the feature.

In Trench 20 the bank was 0.65m high and c3m wide (Illus 73). A section was cut through one half and there was a stone and earth layer (556) 0.8m wide under the topsoil. The earthen bank was wider and was sitting on sandy natural subsoil. There was no dating evidence within the structure.

There was a shallow water channel on the N side of the bank but it was felt that this was not archaeological.

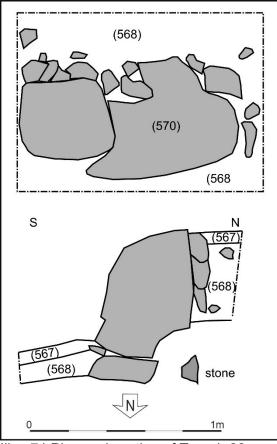


Illus 72 Plan showing sone and earthen banks with TP20, TP22 and TP23



Illus 73 Trench 20 plan and section

Trench 22 was cut through the bank (Illus 74-76). The bank was constructed of large stones 0.6m wide with small stones banked up on the S face. The stones are surrounded by sandy loam 567 and 568 and the structure is sitting on sandy natural subsoil. There was no dating evidence within the structure.



Illus 74 Plan and section of Trench 22



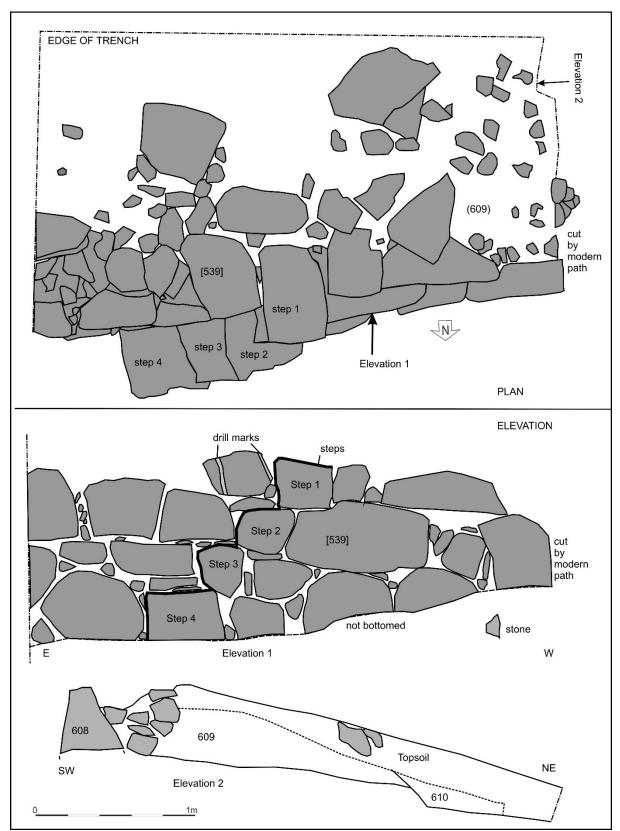
Illus 75 Trench 22 570 facing N



Illus 76 570 facing S

Trench 23 was opened adjacent to a modern path which had cut through the feature a few years ago. Here the undergrowth was cleared and immediately it became apparent that there were at least 4 steps built into the N face of the wall (Steps 1, 2, 3, 4: Illus 77-81). The wall at this point was well-faced on the N side, 1.2m high and 4.4m in length were exposed and cleaned. The full thickness of the wall could not be determined as the rear face of the wall was not safe to be uncovered.

There were drill marks on some of the stones suggesting that this part of the construction was 19<sup>th</sup>-century date or later (Illus 77, 80).



Illus 77 Plan (top) and N elevation (bottom) of stone wall with steps 539



Illus 78 539 showing steps (on the right of the ranging rod); facing S



Illus 79 539 details of steps; facing S



Illus 80 539 detail of drill mark on NW corner of stone on W side of Step 1; facing W



Illus 81 539 S façade showing soil infill behind steps and no evidence of steps on S side of wall; facing N  $\,$ 

# 8 THE FINDS

Finds from the 2016 excavation have been studied and the reports on the window glass, coins, charcoal and lithics follow. The 2019 excavations finds include further examples of each of these categories as well as parts of three spectacles (eg Illus 82).



Illus 82 Spectacle lens with part of copper alloy bridge (SF150) from the 2019 excavation



Illus 83 Glass with etched pattern from the 2019 excavation



Illus 84 Early post-medieval jug shoulder from TP1 from the 2019 excavation



Illus 85 Heated distorted window glass from the 2019 excavation



Illus 86 Copper alloy fitting from the 2019 excavation



Illus 87 Copper alloy bodle from the 2019 excavation

# 8.1 THE GLASS (2016 only)

### **HELEN SPENCER**

#### Introduction

A total of 388 fragments of window glass were discovered during the 2016 excavation at Aden. The fragments of glass were visually inspected for signs of the method of manufacture and installation. They were visually separated into a number of groups to enable selection for chemical analysis. Appendix 6A shows list of window glass finds and the breakdown of glass by visual type.44 samples of glass were selected for analysis by portable X-ray Fluorescence (p-XRF) and of these 20 samples were analysed by Scanning Electron microscopy with energy dispersive spectroscopy (SEM-EDS). The selection was made both on visual appearance and to give a representative selection from the different finds numbers and contexts/trenches.The SEM-EDS analysis is a more precise technique for measuring the compositions of the lighter elements – in particular the amounts of sodium, aluminium and magnesium. P-XRF has been used to provide the composition of all elements heavier than iron.

### Results

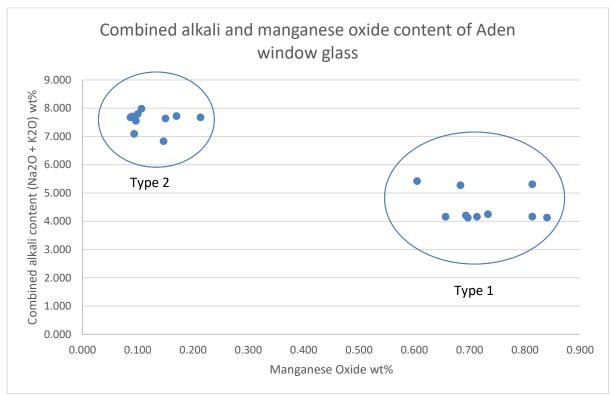
Visually the window glass can be separated into two main types of glass (Illus 88). The chemical analysis has confirmed the visual assessment that there are two types of window glass at Aden. Most of the pieces are broken in an irregular fashion. This is likely to have

happened when the glass was taken out of the building – possibly as a result of the glass being broken while the more valuable lead came was recovered for recylcing. The glass was most likely originally cut into lozenge / diamond shapes, which were fitted together with lead came. The window would then be in a wooden frame. Most domestic Scottish buildings at this time only had the top half of the windows glazed, with the bottom half being wooden shutters that could be opened and closed. The full analytical results (combined SEM-EDS for elements up to iron and p-XRF for elements with a higher atomic number than iron) for twenty of the samples are shown in Appendix 6b.



Illus 88 Example of the different colours of the two types of window glass found at Aden. Type 1 is the dark green glass on the left and Type 2 the more colourless glass on the right.

Both types of window glass are of the high lime low alkali type (HLLA) being rich in Calcium (20 – 23%). Glass of this composition was only made in England from around 1567 and known to be made in Scotland from at least 1610 (possibly earlier, although neither documentary or archaeological proof of glass manufacture prior to this date has been found). Glass of this composition may also have been imported from the continent earlier than these dates. The production of HLLA window glass was discontinued around 1700 when it was replaced with glass with much lower calcium content and a higher alkali content. However, bottles were still made from HLLA glass well into the 18<sup>th</sup> C. The HLLA glass can however be split into two groups based on its chemical composition. This can be clearly seen on the graph below which shows a plot of the combined alkali content (sodium and potassium oxides) compared to manganese oxide.



Illus 89 Combined alkali and manganese oxide content of Aden window glass

Type 1 (168 fragments) is visually an olive-green glass. Most fragments have cut or broken edges. On a small number there are cutting marks, where a straight line was etched prior to the piece being cut. None of the pieces show signs of grozing. The glass appears to be made by the cylinder blowing method. Some pieces have a characteristic smooth straight edge along one side where the cylinder of blown glass would organically have been cut when still hot. Some pieces also have internal elongated gas bubbles which are typical of this technique. Chemical analysis shows that the samples are rich in calcium (>20%) with a combined alkali (sodium and potassium oxides) composition of between 4.2 and 6.2%. They have a relatively high iron content of around 1.5% +/- 0.5% and manganese in the region of 0.6 - 1.0%.Dungworth (2012) has produced a chronology for the composition of English made window glass. Glass of this composition is suggested to be made in England between 1567 and c.1610 and is termed high-lime low alkali 1 (HLLA1). However, this type of glass was made much earlier in parts of the continent – starting in the Rhineland region from the late 14<sup>th</sup> / early 15<sup>th</sup> century. There is no known Scottish manufacture of glass from raw materials until around 1610 this glass is most likely imported from England or Europe.



Illus 90 A piece of Type 2 glass showing the smooth straight edge (LHS) and a large elongated air bubble characteristic of the cylinder method of manufacture

Type 2 (220 fragments) is a clear, more colourless glass with a pale blue tinge. The glass is cut in a similar way to type 1 and also appears to be cylinder blown with some of the pieces having straight edges (Illus 59) along with elongated gas bubbles which are typical of this technique (figure 2). Type 2 is clearly of a superior optical quality to type 1 glass, being more colourless and translucent than the earlier type 1 glass. It has a more stable composition and is less weathered than type 1. It has a higher combined alkali value of 7-8 %, particularly noteworthy for higher sodium than type 1. It also has a higher silica content and fewer impurities, in particular lower aluminium and iron, implying a better quality or more purified silica (sand) source was used. The manganese level much less being <0.2% in all of the type 2 fragments.

This glass is considered to be of a high-lime low alkali 2 (HLLA2) composition typical of the 17<sup>th</sup> Century according to Dungworth's English dating model due to >18% CaO and <0.2% MnO. The glass does not have a high enough alkali content to be consistent with a mixed alkali glass window glass of 1700-1835. The levels of strontium are also below 0.2% which is the level at which the glass would be considered 'kelp fluxed' glass – where seaweed was used as an alkali source. In most type 2 sherds the strontium oxide percentage is between 0.15 and 0.2% which may be due to the use of coastal sands or indicative that the glass may be partially fluxed with kelp, however it was not the main ash used which was likely to have been a hardwood such as oak.

Current research has shown that in Scotland, as in England and Ireland, there appears to be a series of intermediate glass recipes in use during the latter half of the 17<sup>th</sup> Century (Kennedy et al., 2013). This period was a time of great innovation in the glass manufacturing industry and it is suggested that the Type 2 window glass from this excavation comes from this period. Glass of a similar HLLA2 composition has been found to be manufactured at a number of English and Irish sites.

### Summary

The visual appearance and chemical composition of the window glass suggests there were two phases of window glazing at the site. The first stage of glazing is most likely to have occurred in the latter half of the 16<sup>th</sup> century or early 17<sup>th</sup> century (Type 1) and the second glazing phase in the mid- latter half of the 17<sup>th</sup> century (Type 2).

It must be noted that window glass was often recycled and moved from one building to another, so although the Type 1 window glass would have been made in late 16<sup>th</sup> C, it is a possibility that the window glass panes were recycled from another building and installed at a later date.

None of the window glass analysed was of a composition consistent with being made later than around 1700. No glass typical of either a mixed alkali or fully kelp fluxed glass (dated 1700-1835) or a synthetic soda glass (made from 1835) was found.

### 8.2 THE CHARCOAL (2016 only)

### ANNE CRONE, AOC ARCHAEOLOGY

The results of the sample processing and charcoal analysis are presented in the table below;

Sample	Context	Species	No IDS	RW	C14	Comments	
7	141	Pinus sylvestris	1		Yes	large plank fragment	
8	139	Pinus sylvestris	4		Yes	plank fragments	
9	144b	Pinus sylvestris	10	?	Yes	small fragments probably of roundwood	
10	118				No	all DAUB/no charcoal present	
11	130				No	all NAILS/no charcoal present	
12	140	Pinus sylvestris	10		Yes	large fragments	
13	142	Pinus sylvestris	5		Yes	large plank fragments	
14	132	Pinus sylvestris	1		No	Waterlogged plank, breaking down into fibres	
15	123	Pinus sylvestris	1		Yes	DAUB fragments inc 1 fragment of plank	
16	106	Pinus sylvestris	3		Yes	3 large plank pieces, one only part charred	
47						x2 squared lengths with original surfaces intact, 40 x 32 mm across, one with a chopmark across one	
17	144	Pinus sylvestris	2		Yes	surface	
18	135				No	no charcoal present	
19	119	Pinus sylvestris	10	Y	Yes	large roundwood fragments	
20	84				No	no charcoal present	
21	143	Pinus sylvestris	10	?	Yes	fragments probably of roundwood	
22	120	Pinus sylvestris	9	Y	Yes	roundwood fragments, 40 mm radius	
23	126	Pinus sylvestris	4		Yes	large plank fragments, falling apart into thin laths	
24	126	Pinus sylvestris	1		Yes	DAUB fragments inc 1 fragment of plank	

25	116		No	dessicated wood fibres - not identified
26	128	Pinus sylvestris	Yes	plank fragments, some partially charred
27	80		No	no charcoal present

Samples 1-6 were not brought to AOC so have not been examined. Samples highlighted in red did not contain any charcoal or waterlogged wood; Sample 11 contained only nails while three samples, 10, 15 and 24, contained large lumps of daub.

The charcoal was, without exception, identified as Scots pine (*Pinus sylvestris*). The bulk of the samples contained large fragments of planking, all of which had been rift-sawn rather than cleft. Large roundwood was present in four samples.

Fourteen samples are potentially suitable for C14 dating. None of the charcoal displayed the bark edge but it would be possible to sample the outermost surviving rings on some of the planks and on some of the roundwood, particularly 22. The radiocarbon dates are:

Sample no	Charcoal sp	Date @95.4% probability
7	pine	1726 (53%) 1814calAD
12	pine	1646 (30.4%) 1684calAD
		1736 (48.3%) 1805 calAD
13	pine	1735 (48.7%) 1806calAD
19	pine	1635 (45.4%) 1684calAD
		1736 (39%) 1805calAD

### 8.3 COINS (2016 only)

#### STEWART THAIN

The coins from CA267are mostly Scottish copper BAWBEES (6 Pence) and TURNERS or BODLES (2 Pence) minted in Edinburgh in the reigns of Charles II, William and Mary or William II and therefore ranging in date from.1677 to 1697. One Bawbee and two Turners may be of Charles I's final issue (1642-50) while another of the turners could be of an earlier type issued in 1629.

Three modern British pieces are also present, two of hese being copper-alloy halfpennies of the reigns of Queen Victioria and George V respectively the other is probably also Victorian.

Unfortunately the degree of corrosion and wear present on most of these specimens makes more-accurate identification particulary difficult.

Trench 1, Area 4, Layer 116, Small Find 14 Scottish Copper Turner or Bodle, Willian & Mary? 1691-94. Layer 108, Small Find 22 Scottish Copper Turner or Bodle, Charles II, 1677-79. Area 3, Layer 52, Small Find 23 Scottish Copper Turner or Bodle, Charles II, 1677-79. Area 4, Layer 152, Small Find 24 Scottish Copper Turner or Bodle, William & Mary? 1691-94. Area 5, Layer 152, Small Find 25 Scottish Copper Turner or Bodle, William & Mary? 1691-94

.Area 6, Layer 152, Small Find 26 British Copper Halfpenny, Queen Victoria? Area 9, Layer 152, Small Find 27 Scottish Copper Bawbee? Charles II - William II, 1677-97. Area 10, Layer 152, Small Find 28 Scottish Copper Turner, Charles I, 1629 (or possibly James VI 1613). Area !!, Layer 152, Small Find 29 Scottish Copper Bawbee, Charles II, 1677-1679. Area 12. Layer 152, Small Find 30 Scottish Coper Turner, Charles I, 1642-50. Trench 3, Layer 31, Small Find 31 Scottish Copper Turner, Charles I, 1642-50. Area 14, Layer 152, Small Find 32 Scottish Copper Turner or Bodle, Charles II?, 1677-79 Area 17, Layer 1, Small Find 33 Scottish Copper Turner or Bodle, Charles II, 1677-79. Trench 2, Layer 79, Small Find 34 British Copper-alloy Halfpenny, Geoege V, 1929. Trench 2, Layer 1, Small Find 38 British Copper-alloy Halfpenny, Queen Victoria (`old-head' type), 1900? Trench 1, Area 4, Layer 117, Small Find 41 Scottish Copper Turner of Bodle, Charles II 1677-79. Trench 1, Small Find 42 Scottish Copper Bawbee, Charles II, 1677-1679 Trench 1, Layer 108, Small Find 44. Scottish Copper Bawbee, Charles II, 1677-79.

# 8.4 THE LITHIC ASSEMBLAGE (2016 only)

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### INTRODUCTION

In 2015, Cameron Archaeology evaluated two buildings at Aden Country Park, Aberdeenshire (NGR: NJ 9821 4755), followed by the excavation of further trenches in 2016 (Cameron 2016). The two buildings were identified as medieval, and amongst the building remains and rubble a small number of residual lithic artefacts were recovered. The 17 lithics are clearly of a prehistoric date.

The purpose of this brief report is to characterize the lithic artefacts in general terms. From this characterization, it is sought to date and discuss the finds. The evaluation of the lithic material is based upon a detailed catalogue (supplied as an Excel database; Appendix 1) of the lithic finds from Aden, and in the present report the artefacts are referred to by their catalogue number (CAT no.). The catalogue appears in Appendix 7.

#### THE ASSEMBLAGE

From the excavations at Aden, 17 lithic artefacts were recovered. They are listed in Table 1. In total, 64% of the assemblage is debitage, whereas 18% is cores and 18% tools.

	Flint	Quartz	Total
Flakes	9	2	11
Levallois-like cores	1		1
Bipolar cores	1		1
Core frags	1		1
Plano-convex			
knives	1		1
Short end-scrapers	1		1
Piercers	1		1
TOTAL	15	2	17



The definitions of the main lithic categories are as follows:

*Chips*: All flakes and indeterminate pieces the greatest dimension (GD) of which is  $\leq$  10mm. *Flakes*: All lithic artefacts with one identifiable ventral (positive or convex) surface, GD > 10mm and L < 2W (L = length; W = width).

*Indeterminate pieces*: Lithic artefacts which cannot be unequivocally identified as either flakes or cores. Generally the problem of identification is due to irregular breaks, frost-shattering or fire-crazing. *Chunks* are larger indeterminate pieces, and in, for example, the case of quartz, the problem of identification usually originates from a piece flaking along natural planes of weakness rather than flaking in the usual conchoidal way.

*Blades and microblades*: Flakes where  $L \ge 2W$ . In the case of blades W > 8mm, in the case of microblades  $W \le 8 mm$ .

*Cores*: Artefacts with only dorsal (negative or concave) surfaces – if three or more flakes have been detached, the piece is a core, if fewer than three flakes have been detached, the piece is a split or flaked pebble.

Tools: Artefacts with secondary retouch (modification).

### Raw materials - types, sources and condition

Apart from two pieces in milky quartz (CAT 14, 15), all artefacts are in flint. The flint is generally fine-grained red or light brown, but several pieces (CAT 11, 17) are in mottled grey flint, which may be exotic, possibly deriving from north-east England (Ballin 2011b). The flint generally has abraded cortex, and the curvature of the cortical surfaces of the pieces suggests a modest original pebble size. Most likely the red and brown flint was obtained from coastal sources, such as beach walls (cf. Ballin 2016). In contrast to the flint from the Buchan Ridge Gravels near Peterhead (Bridgland 1997; Suddaby & Ballin 2011), the reduction of which was hampered by impurities and internal flaws, the flint recovered from the present site appears to be fairly pure. It is uncertain whether the quartz was procured from veins or as pebble quartz (Ballin 2008).

#### Debitage

The 11 pieces of debitage are all flakes. Apart from CAT 10 and 12, which are intact, all are fragmented to some degree. The greatest dimension (GD) of the flakes and flake fragments varies between 11mm and 65mm. Of seven technologically definable pieces, five are hard-hammer flakes and two are bipolar. CAT 6 and 11 have finely faceted platform remnants,

defining them as Levallois-like flakes, and dating them to the Middle/Late Neolithic framework. Eight flakes are tertiary, whereas three are secondary.

### Cores

This category includes three specimens, namely one fragment of a Levallois-like core (CAT 8); one bipolar core (CAT 3); and one core fragment (CAT 5).

At a first glance, CAT 8 seems to be the broken-off working-edge of a scraper, but the lower face of this piece is characterized by negative flake scars, suggesting that the modification may instead be the fine platform-faceting of a flat Levallois-like core (GD 30mm). CAT 3 is a bifacial bipolar core with two reduction axes (sets of opposed terminals), and it measures 44 x 36 x 14mm. CAT 5 is a core fragment, and parallel dorsal flake or blade scars indicate that this *may* be a fragment of relatively sophisticated single-platform core (GD 30mm).

### Tools

Only three implements were retrieved during the investigations at Aden Country Park, namely one plano-convex knife (CAT 1); one short end-scraper (CAT 11); and one piercer (CAT 16). CAT 1 is a well-executed plano-convex knife based on a hard percussion blade blank (43 x 20 x 5mm). It has extensive scale-flaking along its left lateral side (reaching 8-9mm from the edge), and less extensive scale-flaking along its right lateral side (c. 3.5mm). Both edges are slightly convex to straight, and acute, and they are both fully modified. CAT 11 is a short end-scraper on a robust hard-hammer flake ( $32 \times 30 \times 11mm$ ), and it has a convex, steep working-edge at its distal end. CAT 16 is an expedient piercer on a bipolar flake ( $41 \times 29 \times 13mm$ ), and it has a simple tip at its distal end, formed by a short retouch at either side of this point.

### SUMMARY AND DISCUSSION

As the entire assemblage is residual, with the finds having been extracted from medieval building parts and building/demolition rubble, it is by no means certain that the pieces are of the same date. However, this small assemblage does come across as being typotechnologically homogeneous, and the finds could well be contemporary.

No finds indicate that the site was visited in the earlier part of prehistory, whereas several details suggest a date after the Mesolithic period, such as 1) the dominance of flakes over blades; 2) the fact that the only blade present (the blank of scale-flaked knife CAT 1) is short and broad (LW 43 x 20mm); 3) the presence of a broken Levallois-like core (CAT 8); and 4) the application of invasive retouch (CAT 1). The fragmented Levallois-like core, as well as two flakes struck off such cores (CAT 50, 52), suggest a date in the later Neolithic period (Ballin 2011a; 2011b; Suddaby & Ballin 2010). Plano-convex knives are mostly associated with the Early Bronze Age period (Finlayson 1997; Ballin 2006), but the Bronze Age versions of the tool form tend to be relatively short (thus the use of the now out-dated term 'slug knives'), whereas later Neolithic ones tend to be based on broad blades, like the period's edge-polished knives (eg, Manby 1974, 88-9). If, as proposed above, the raw material of scraper CAT 11 and flake CAT 17 is indeed Yorkshire flint, this supports the suggested later Neolithic date, as the importation of flint into Scotland from north-east England was mainly a Middle/Late Neolithic phenomenon.

# 9 CONCLUSIONS AND RECOMMENDATIONS

A summary of the finding from these digs include

• There is no dating for the construction of the building; charcoal samples recovered from the foundations in 2021 will be dated.

• Structure 1 has no room partitions and so therefore was probably constructed as nbe large space.

• There are 5 doors.

• The finds include coins, brooch, spectacles, window glass but no domestic rubbish – no pottery, vessel glass, bone

• The first phase of window glass dates to the 16<sup>th</sup> century or early 17<sup>th</sup> century and the second glazing phase in the mid- latter half of the 17<sup>th</sup> century

• The coins mainly date to the 17<sup>th</sup> century

• The burnt wood on the floor was dated to 17<sup>th</sup> to mid 18<sup>th</sup> century. Was the building burnt down in the mid 18<sup>th</sup> century?

• The building has been completely dismantled to ground level including removal of all flooring apart from small areas of cobbles around the doors - does this suggest wooden flooring within the building? Are stone settings in the W wing of the building remains of supports for wooden flooring? Or has stone slab flooring been removed?

• Large stones have been placed on the bank created by the demolished building, sometime decades after the demolition; were these set out by the later estate owners (Russel family) or by antiquarians who remembered the building and wanted to mark/commemorate it?

• Structure 2 is probably contemporary and again there is no dating evidence for construction. Probably domestic at the S end and agricultural building at the N end, possibly a manse with associated farm building. After this building was demolished a stone-lined pit was built in the demolition debris, possibly as a corn drying kiln. Samples from this will be processed and charcoal dated.

• The buildings are not recorded on any maps. There is a 'boot-shaped' enclosure around them on the OS maps and by the 2<sup>nd</sup> Edition OS a path has been routed around the outside of the enclosure.

A PERD (post-excavation research design) will be compiled, research carried out and publication will take place in ARO (Archaeology Reports Online).

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