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Field Evaluation & Excavation

Site & Landscape Survey

**Block AA**, Winchburgh Masterplan, Beatlie Road, Winchburgh, West Lothian

**Archaeological Excavation** 

Report No. 3098

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# Block AA, Winchburgh Masterplan, Beatlie Road, Winchburgh, West Lothian

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## 1. INTRODUCTION

## 1.1 General

This report presents the results of an archaeological excavation undertaken by CFA Archaeology Ltd (CFA) between July and October 2013 within the Winchburgh Masterplan Area Block AA, near Winchburgh, West Lothian (NT 09108 75475, centred) (Fig. 1). The work was commissioned by Sigma Capital Group Ltd on behalf of Regenco Trading Ltd (Regenco).

An addendum (Project Design) to the Written Scheme of Investigation (WSI), dated 14 May 2013, was produced by CFA on behalf of Regenco. The Addendum was designed to fulfil the requirements of West of Scotland Archaeological Service (WoSAS) on behalf of West Lothian Council, and set out a programme of archaeological excavation, following on from the archaeological evaluation of the site in April 2013 (Glendinning 2013).

## 1.2 Background

Regenco was granted planning permission (Planning ref: 1012/P/05) subject to planning conditions. The first phase of a multiphase response to the archaeological planning conditions required an archaeological evaluation of Block AA prior to servicing with infrastructure.

A possible double ditched enclosure (NMRS No. NT07NE 127) was identified from aerial photography (Fig. 11), the details of which were provided by WoSAS. An evaluation was undertaken on the site of the proposed development: 63 trenches (8%) were excavated within the proposed development area, amounting to 5309m<sup>2</sup> (Glendinning 2013). A total of 11 trial trenches were targeted to evaluate the possible enclosure ditches. The evaluation confirmed the presence of a double ditched enclosure.

The enclosure is located on arable land 500m to the north-east of Winchburgh, West Lothian. The site is bounded on the east by the B8020. The enclosure occupies an area 72m AOD on a small rise, marginally higher than the surrounding land, which sloped away to the north, south and west.

## 1.3 Objectives

The aims were:

- To excavate the remains of the enclosure and any associated features;
- To produce a report on the excavation and if necessary conduct a programme of post-excavation analysis and publication of the results.

## 2. WORKING METHODS

## 2.1 General

All work was conducted in accordance with the Institute for Archaeologists' Code of Conduct and relevant Standards and Guidance, and with Historic Scotland's standard requirements.

All excavation and on-site recording was carried out according to standard CFA procedures, principally by drawing, by photography and by completing standard CFA record forms. The positions of all archaeological features were surveyed using industry standard electronic surveying equipment

## 2.2 Excavation Strategy

The trench required for the excavation measured 0.77ha, which was stripped of topsoil using a 360° tracked excavator equipped with a smooth-bladed ditching bucket to reveal either the subsoil or surface or the surface of the first archaeological horizon. All stripping operations were carried out under constant archaeological supervision.

A strategy of 100% excavation of all features was adopted, excluding modern intrusions such as field drains and except where specific approval by WoSAS was received to do otherwise. However, after approval by WoSAS, it was decided that 95% excavation was sufficient given that it was only the baulks that remained. All negative features (post-holes, ditches) were excavated by the conventional method of sectioning and sequential removal of the fill(s). Superimposed features were investigated in stratigraphic sequence. All such excavations were conducted by hand unless otherwise agreed with WoSAS.

Both the ditches were investigated through transverse sections. Over 95% of the total length of the ditches were excavated A total of 25 sections were placed within the inner ditch and 24 sections in the outer ditch. Each of the sections was given numerical or alphabetical identifiers. These are indicated on Fig. 2. A summary of the excavated sections can be found in Appendix 6.

## 2.3 Sampling Strategy

A programme of collection of soil samples and other appropriate material was undertaken for scientific dating and the recovery of palaeoenvironmental evidence. Samples were taken from deposits most likely to provide uncontaminated palaeoenvironmental information. Soil samples were retrieved in sealed buckets with sample recovery of 12 litres (or, if the volume of the deposit was less than 12 litres, the whole deposit).

Extensive deposits, such as sealed primary ditch fills in the enclosure ditches were sampled at a greater volume than 12 litres. Multiple standard bulk samples were obtained from the basal fills of the ditches.

## **3. ARCHAEOLOGICAL RESULTS**

#### 3.1 General

The excavation uncovered the remains of a sub-circular, double-ditched enclosure with an overall measurement of 64m NW-SE by 67m NW-SE (Figs. 2-4 & 15). The internal area of the enclosure measured 43.5m NE-SW by 39m NW-SE. A definite entrance was present on the eastern side of the enclosure. This was slightly off-set between the inner and outer ditches. A possible entrance was also present of the western side of the inner ditch and a corresponding gap in the outer ditch circuit could indicate the presence of a corresponding entrance there.

Over 95% of the total length of the ditches were excavated. A total of 25 sections were placed across the inner ditch and 24 sections across the outer ditch. Each of these sections were given numerical or alphabetical identifiers. These are indicated on Fig. 2. A summary of the excavated sections can be found in Appendix 6.

The topsoil was generally 0.3m-0.35m deep, with clayey-silt subsoil present in most parts of the site. The natural substrate consisted of sandy clay and clayey sands, often with large stones and shale present.

Numbers in bold in the following text refer to contexts, a full list of which is contained in Appendix 1.

#### **3.2** Excavation Results

#### Outer Ditch

Of the two ditches, the outer ditch exhibited the greatest variability around its circuit (Figs. 2-4 & 15). On the east side of the enclosure there was an entrance and on the north side of the entrance a long section of ditch (021) was present along with two conjoined shorter and shallower sections of ditch (291 & 292). On the south side of the entrance a long section of continuous ditch was also present (001). The rest of the external ditch if it can be called that consisted of a number of discontinuous pits or scoops around parts of its circuit (010, 293, 294, 295, 036, 025, 091, 071, 075, 076, 050, 082, 078 and 077) (see Fig. 13 for an example of this). There were large gaps in the ditch along the northern and western portion of its circuit.

The measurement across the outer ditch was 64m NW-SE by 67m NE-SW to the outer ditch edge. An entrance 5.6m wide was located on the eastern side. The ditch on both sides of this entrance was continuous and at the terminal ends it was a substantial structure. The northern terminus measured 4.3m wide by 1.05m deep with moderately sloping sides and flat base (Fig. 9). The southern terminus measured 4.25m wide by 1.4m deep, with similar sides and flat base (Fig. 8). The ditch quickly reduced in depth and width away from the entrance on both sides. The effect provided an impressive entrance when viewed against the rest of the circuit of the ditch.

A possible entrance to the west may be hypothesised as gap in the circuit of the ditch corresponds to a possible entrance through the inner ditch but it is not definite.

The depth and width of the outer ditch ranged between 0.2m-1.4m and 1.0m-4.65m, respectively. The fills of the outer ditch were by and large similar in appearance, texture and compaction. The upper fills generally consisted of sandy clays and silty clays varying in colour from mid-brown/orange to orange/grey which were loose or moderately compacted. The basal fills all consisted of firmly compacted grey clays or orange/grey silty clays. The outer ditch generally contained four to five separate fills in the larger, deeper eastern side (Fig. 5), whereas the shallower western ditch segments contained two to three separate fills on average.

A quantity of stone was removed from the ditch fills and the northern terminus contained a far greater volume of stone in its lower fills (023, 024) than throughout the lower fills of the southern terminus (29-32). However, the volume of stone sharply decreased from south to north along the north-eastern part of the outer ditch (021, 291, 292). Similarly, very little stone was present in the fills of the south-eastern quarter of the outer ditch (001, 010, 025, 036, 091, 293, 294, 295). The effect was that more stone was present at the entrance than elsewhere possibly suggesting a stone structural element to the entrance.

#### Inner Ditch

The inner ditch was more regular in shape and form than the outer ditch, and more continuous. Similar to the outer ditch, the inner ditch had also been excavated as a series of conjoined lengths (060, 100, 105, 110, 111, 115, 174 and 235).

The measurement across the inner ditch was 48m NE-SW by 46m NW-SE to the outer ditch edge. A clear entrance was present on the east side of the enclosure, this measured 4.4m wide. It was slightly off-set from the corresponding entrance through the outer ditch. Like the outer ditch, the ditch around the entrance was deeper and wider than elsewhere around its circuit making the entrance appear more impressive. The northern terminus measured 3.2 wide by 1.3m deep with a v-shaped profile (Fig. 6). The southern terminus measured 3.72m wide by 1.2m deep with a more u-shaped profile (Fig. 7).

Another possible entrance was present on the west side of the enclosure which measured 3m across. The northern terminus of the possible entrance measured 2.8m wide 0.9m deep with a v-shaped profile. The southern terminus of the possible entrance measured 2.9m wide by 1m deep with moderately sloping sides and a concave base.

The depth and width of the outer ditch ranged between 0.7m-1.3m and 2.5m-3.2m, respectively. The fills of the inner ditch varied along its circuit and the volume of stone decreased from east to west. The primary fills generally consisted of clays or sandy clays which varied in colour from grey to mottled grey/orange. Overlying the clay basal fill was a matrix of sandy or silty clays with varying volumes of large, angular stones that had been tipped in from the centre of the enclosure (see Fig 12 for example). The greater volume of stone was to be found within the termini of the eastern entrance, decreasing in volume from east to west around the circuit (Fig. 14). This suggests that an internal stone wall or rampart ran around the inner lip of this ditch. The variation in volume of stone suggests that this was more larger or

impressive around the entrance and the eastern side of the enclosure than elsewhere around its circuit.

## Internal features

Two shallow pits or possible post holes (164 & 166) were located within the enclosure and another one (173) was identified in the 115C section of inner ditch, which was located on the east facing inner edge of the ditch. Only (166) contained packing stones within the fill (Fig. 10). No other internal features were identified within the enclosure.

## **3.3** Finds (by Christina Hills)

#### Stone

A variety of stone finds were retrieved from the site, including a possible hammerstone from 147 and a possible pecking stone from 152 as well as some quartz from 151 and 152. The majority of the stone finds from this site were of shale, the material retrieved had been worked into rough discs with drilled perforations in the centre. Two were recovered from the surface, three from context 152 and one each from 023, 163, 239 and the pipe trench in cut 25. The initial interpretation of these items is that they are derived from the manufacture of shale bracelets and are therefore later prehistoric in date.

#### Animal Bone

The majority of material recovered on site was animal bone. Unfortunately due to the clay soil conditions on site the preservation of this material was poor. Most of the animal bone came from the inner ditch **115** with the rest of the material coming from context **128**, **140**, **264**, **270** and the surface.

## Charcoal

Some charcoal was hand-retrieved across the site, from contexts 167, 224, 249 and 270.

#### Pottery

Twenty sherds of pottery were recovered from across the site, the majority of which was unstratified and of post-medieval to modern date. On sherd found in cut 174h was post-medieval.

## Miscellaneous

Several post-medieval/ modern finds were found on the surface. This includes blue and white modern glass and a fragment of post-medieval clay pipe stem. Iron was recovered from the surface within the inner ditch; this was a modern bar.

#### Summary

The stone and animal bone will be studied further in the post-excavation process and the hand-retrieved charcoal will be added to any charcoal recovered from sample processing. The post-medieval and modern finds; pottery, glass, clay pipe and iron, do not require further work.

#### 4. **DISCUSSION**

There were no coherent internal structures identified within the enclosure and the function of the site is unclear. However, it appears to fall into the category of later prehistoric defended enclosures, similar to that excavated at Braehead (Ellis et al 2007).

There was a lack of artefacts such as pottery to assist with initial thoughts about dating and function but the recovery of a number of shale artefacts that have been initially interpreted as deriving from the manufacture of shale bracelets tends to support the proposed later prehistoric date for this enclosure.

The main entrance to the enclosure was present on the eastern side and the western entrance is only a possibility. Indeed the whole focus of the enclosure appears to be concentrated around the eastern side which would tend to indicate that this was at least the main, if not only entrance and that the proposed western entrance could simply be an artefact of the construction technique of joining together short lengths of ditch or pits to create a larger feature. Simply put the gap could have been left wider between the conjoining sections at this point. Although it does appear almost opposite the eastern entrance so it should not be completely ruled out.

The outer ditch is substantially smaller and quite discontinuous around the northern and western side and the inner ditch was also slighter in this area. Rig-and-furrow was observed overlying the site during topsoil stripping which would suggest the ditches had not been significantly truncated by modern ploughing or pre-recent agriculture. So the form the enclosure takes with it being much more impressive, with deeper and wider ditches to the east, and slighter to the west is more likely to be representative of what was built rather than purely an artefact of survival. That is not to say that no truncation has taken place but simply not a sufficient amount to result in the very obvious differences between the east and west sides of the enclosure.

The large volume of imported stone contained within the fills of the inner ditch is interpreted as the remains of a stone wall or rampart located along the inner edge of the inner ditch which had been levelled into the ditch. The greatest volume of stone was observed around the eastern side of the site and especially around the entrance. This supports the theory that the majority of the effort in construction was focused on the eastern side and that it was built to a larger scale than the western side.

The large amount of imported stone in the termini of both the inner and outer ditches at the eastern entrance suggests that an impressive stone structural element to the entrance was present at this location. There was no evidence of re-cutting within the outer or inner ditches and the limited silting up of the inner ditch prior to the incorporation of the stone wall or rampart into the ditch fill indicates the site may have been relatively short-lived. This may also in part explain the lack of internal features and artefacts.

## 5. CONCLUSION

An archaeological excavation was undertaken at land to the north-east of Winchburgh, West Lothian. The excavation revealed the remains of a sub-circular, double-ditched enclosure of later prehistoric date. The evidence from the fills of the inner ditch indicates there was a large stone wall or rampart inside the inner ditch. The only evidence of internal features was two pits or post holes located in the southern half of the enclosure. There was no evidence of re-cutting of the ditches and the lack of extensive silting prior to the incorporation of the stone wall or rampart into the fill of the ditch suggests a relatively short duration for the life of the site.

A programme of post-excavation analysis and publication will be required in relation to this programme of works. A Post-Excavation Research Design will need to be agreed with West Lothian Council as advised By WoSAS. A copy of the Post-Excavation Research Design will be provided under separate cover.

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

A summary statement of the results of this programme of works will be submitted for publication in *Discovery and Excavation in Scotland*.

## 6. **REFERENCES**

Ellis, C. et al (2007), *Total excavation of a later prehistoric enclosure at Braehead, Glasgow,* Proceedings of the Society of Antiquaries of Scotland, 137, 179-264.

Glendinning, B (2012) Winchburgh Masterplan Area Block AA, Archaeological Evaluation. CFA Report No. 3004.

# **APPENDIX 1: CONTEXT REGISTER**

Context	Fill of	Trench	Description
001			Curvilinear ditch
002	001		Orange/brown base fill of [001]
003	001		Grey sandy clay fill
004	001		Grey clay fill
005	001		Grey/brown sandy clay fill
006	001		Orange/brown clay silt fill
007	001		Grey silt clay fill
008	001		Orange silt lens fill
009	001		Orange/brown sandy clay fill
010			Cut of ditch terminus
011	010		Grey silty clay fill
012	010		Orange clay fill
013	010		Orange and brown fill
014	010		Orange/red/grey clay fill
015	010		Grey fill
016	010		Orange/red/grey clay fill
017	010		Dark brown clay
018	001		Orange/brown fill
019	001		Orange fill
020	001		Grev clay fill
021			Curvilinear cut, outside enclosure, NE
022	021		Orange/brown sandy clay
023	021		Grev sandy clay with large stone inclusions
024	021		Base fill, grev plastic clay
025			Small cut, south side of outer ditch circuit
026	025		Base fill of 025
027	025		Grev sandy clay
028	025		Orange/brown sandy clay
029	001		Base fill of cit [001], section 5
030	001		Grev clay sand
031	001		Grev/orange sandy clay (dwg 1)
032	001		Brown/orange sandy clay
033	001		Compact orange/brown sandy clay
034	001		Stony deposit
035	001		Brown/orange sandy clay
036			Cut of terminus
037	036		Grev base fill
038	036		Grey/orange sandy clay
039	036		Orange/grev sandy clay
040	001		Grev clay base fill
041	001		Orange/brown silty clay
042	001		Brown/grey silty clay
043	001		Grev/brown sandy clay
044	001		Orange/grev silty clay
045	001		Grev silty clay
046	001		Brown clay silt
047	001		Brown/grev silty clay
048	001	1	Orange clay silt
049	001	1	Brown/grev silty clay
050		1	Ditch cut
051	050	1	Brown/grev clay
052	050		Grey/orange silty clay
053	050		Brown/grev silty clay
054	050	1	Reddish brown clay silt

Context	Fill of	Trench	Description
055			Cut, terminus outer ditch west
056	055		Fill within section 10 (south terminus) – brown/grey mix silty clay
057	055		Grey clay base fill
058	078		Re-deposited natural forming base fill
059	078		Grey-orange fill
060			North ditch inner enclosure
061	082		Orange/grey silty clay
062	082		Orange/grey clay silt
063	082		Brown/grey silty clay
064	082		Grey silty clay
065	082		Reddish brown clay silt
066	082		Orange/grev clay silt
067	082		Grev silty clay
068	082		Reddish brown clay silt
069	002		Cut of modern clay pipe in [076]
070			Cut same as [050]
071			Cut in outer ditch
072	071		Brown clay silt
072	071		Brown/blue clay
073	075		Blue clay
074	075		Terminus out
075			SE torminus
070			W terminus neut to large stone
077			E terminus
078	0(0		
0/9	009		Fill of pipe cut
080	076		Base fill of $[0/6]$
081	0/6		
082	0/6		Cut of ditch on outer circuit
083	060		Base fill of [060]
084	060		Main fill of [060]
085	060		Secondary of [060]
086	60		Buried soil?
087	060		Top fill of [060]
088	0.00		Cut of pipe trench of within [0/5], section 13
089	088		Fill of [088]
090			Overcut (see drawing 20 and 25
091			Cut
092			Base fill of [091]
093			Fill of [091]
094			Fill of [091]
095			Fill of [091]
096			Cut
097			Fill of [078]
098			Fill of [078]
099			Base fill of [078]
100			Cut of west terminus, inner ditch
101	100		Grey/brown/orange fill
102	100		Grey clay fill, same as 103
103	100		Grey clay fill of ditch
104	100		Stone in fill (101)
105			Cut of inner ditch terminus
106	105		Base fill of inner ditch terminus
107	105		Rock/stone fill of inner ditch terminus
108	105		Top fill of inner ditch terminus
109	100		Black deposit at east end of west terminus edge of [100]
110			Cut of terminus
111			Cut of inner circuit = 125

Context	Fill of	Trench	Description
112	111		Base fill
113	115		Stone fill of [115]
114	115		Grey clay base fill
115			Cut of inner circuit
116			Base fill of [110]
117	110		Base fill
118	110		Base fill
119	110		Base fill
120	110		Base fill
121	İ		Subsoil deposit over (074), [075]
122	110		Base fill
123	110		Fill
124			Pipe cut fill
125	111		Ditch of inner circuit = 111
126	111		Grey clay with stones
127	111		Orange/brown silty clay with stones
128	021		Grey silty clay with small inclusions and finds
129	021		Orange/brown silty clay
130	021		Mid-brown silty clay with mixed orange
131	021		Light brown silty clay
132	021		Mixed orange/brown silty clay
133	021		Mid-brown/orange silty clay
134	021		Mid-brown silty clay
135	021		Mid-brown silty clay
136			Cut of field drain within [021]
137	136		Fill of drain cut
138			Cut of terminus (dwg 35)
139	138		Primary base fill of cut [138]
140	138		Secondary fill, stone deposit
141	292		Grev clay silt fill of [021]
142	292		Grey/orange silty sand
143	292		Brown clay silt
144	291		Brown/orange silty clay
145	291		Brown/orange clay silt
146	291		Grev clav base fill
147	115		Grev clay fill
148	115		Orange silty clay/rock fill
149	115		Grev silty fill
150	115		Brown soil fill (top rock fill)
151	105		Secondary fill slumped natural? Mixed light grey mottled orange clay
			sand
152	105	1	Basal fill? Light/mid-blue/grey silt clay
153	111		Grey silty sand layer beneath [127] and above [126]
154	1	1	cut
155	010		Grev/brown/orange top fill
156			Pipe cut in ditch [025]
157	156		Pipe cut fill
158	077		Grev clav
159	115C		Post hole found in dark brown clay
160	115C		Grev silty fill
161	115C		Orange silty natural fill
162	115C		Orange/brown clay
163	115C		Orange/brown natural fill
164	1100		Cut of possible post hole
165			Fill of 164
166			Cut of nit or possible post hole
167			Fill of 166
107	L	L	

Context	Fill of	Trench	Description		
168	115		Base fill of [115 B & C], brown with orange inclusions		
169	115B		Brown/grey silty clay fill		
170	115A		Dark brown/orange clay, heavily compacted		
171	115A		Base of [115A], dark brown orangey clay		
172	115D		Orange sandy clay, very compact		
173			Cut of post hole		
174			Cut of interior ditch		
175	174D		Grey clay base fill		
176	174D		Brown/grey clay		
177	174D		Pipe cut in [174F]		
178	174D		Pipe fill		
179	174D		Light brown silty sand base fill		
180	174D		Grey/orange silty clay		
181	174D		Orange clay sand		
182	174D		Light brown clay silt fill		
183	174D		Grey clay fill		
184	174D		Reddish brown silty sand		
185	174D		Brown/grey silty clay		
186	174D		Yellow clay sand		
187	174D		Yellow/brown silty clay		
188	174D		Dark brown sandy silt		
189	174C		Grey clay base fill, probably same as 175		
190	174C		Stony grey clay side fill potentially same as 189		
191	174C		Top fill – brown and sandy		
192	174C		Pipe fill in 174C		
193	174F		Yellow/brown silty clay		
194	174F		Silty clay, yellow/grey		
195	174F		Orange/grey silty clay		
196	174F		Orange/brown clay sand		
197	174F		Brown/grey silty clay		
198	174F		Brown clay sand		
199	174B		Brown sandy fill		
200	174B		Grey/orange clay fill		
201	174B		Grey/brown sandy clay base fill		
202	174B		Grey stony clay fill		
203	174B		Upper fill, brown sandy fill		
204	1/4B		Grey clay fill		
205	1/4B		Grey/orange clay fill		
200	1/4B		Mottled eronge/group eleveride fill		
207	174C		Notice of ange/grey clay side fill		
208	1740		Grey/brown top fill		
209	1740		Fill of nine drain out		
210	174C		Dark grow silty cloy		
211	1/4F		Vallow/grey clay fill		
212	174F		Light brown clay silt		
213	1/4F 174E		Drown city sint		
214	174F		Plough cut cuts into (214)		
215	174F		Fill of plough cut $-$ red sandy silt		
210	174F		Orange/grey clay base fill		
217	174F		Brown/orange clay silt		
210	174F		Orange/orev silty clay		
219	174F		Mottled red/grev silty clay		
220	174F		Grev sandy clay		
221	174F		Brown silty sand		
222	1150		Orange/brown sandy silt		
223	1150		Grav clay fill		
22 <b>4</b>	11,00	1			

Context	Fill of	Trench	Description
225	115D		Brown/grey silty clay
226	115D		Dark grey clay sand
227	115D		Black/brown silty sand
228	115D		Brown sandy silt
229	115D		Red/brown clay silt
230	115D		Brown/grey silty clay
231	115D		Orange/grey sandy clay
232	115D		Grey sandy clay
233	115D		Orange sandy silt
234	115D		Brown/orange sandy silt
235			Cut of ditch
236	235D		Stone and clay backfill of ditch
237	235D		Clay deposit along NW edge
238	235D		Clay silt deposit
239	235D		Clay silt basal fill
240	235D		Upper silt clay fill
241	235D		Upper clay silt deposit
242	235D		Silty clay lower deposit
243	235D		Basal deposit
244	235D		Backfill in ditch. mixed
245	235A		Stone and brown soil fill
246	235A		Grev clay with orange inclusions
247	235A		Grev sandy clay fill
248			Cut of pipe
249	174G		Mottled orange/grev clay
250	174G		Light brown/grev sandy clay with 80-90% stone inclusions
251	174G		Mid dark grev clay
252	174G		Mottled mid grey/orange sandy clay
253	174G		Mid-dark grev sandy clay
254	174G		Light brown sandy silt
255	235C		Orange grev sandy silt
256	235C		Dark grey mixed clay
257	235C		Compacted grey clay
258	235C		Lightly compacted grey silty sand
259	174H		Mottled grey/orange fill
260	174H		Grev silty basal fill
261	174H		Grev silt containing an alignment of slumped stone
262	174H		Grev silt with slight intermixing of topsoil
263	174D		Light brown silt with many stone inclusions
264	174A		Grev clav at base of terminus
265	235F		Loosely compacted mid-brown/grev clav
266	235F		Mottled grey/orange clay
267	235F		Grev silty clay
268	235F		Compacted grey clay base fill
269	60B		Brown silty clay fill
270	60B		Grev clav fill
271	60B		Orange/grev fill
272	60B		Grev clav base fill
273	235E	1	Grey/orange, mottled basal clay fill
274	235E	1	Very firm grey clay
275	235E	1	Grey/orange sandy clay
276	235E		Brown/grev loose clay
277			Same as [235]
278	235B		Silty sand with slumped stone
279	235B		Silt with slumped stone
280	235B		Sandy silt fill
281	235B		Silt fill
201	2330		

Context	Fill of	Trench	Description
282	60C		Mottled orange/grey clay basal fill
283	60C		Smooth mid-grey clay
284	60C		Rough dark grey clay
285	60C		Red/brown sandy clay, mixed
286	60D		Course orange/grey clay basal layer
287	60D		Smooth mid-grey clay
288	60D		Rough dark grey clay
289	60D		Greenish grey clay
290	60D		Red/brown rough sandy clay
291			Cut of pit, NE outer ditch
292			Cut of pit, NE outer ditch
293			Cut of pit, SE outer ditch
294			Cut of pit, SE outer ditch
295			Cut of pit, SE outer ditch
296	174C		Mottled orange/grey clay
297	174D		Light brown sandy silt deposit
298	174E		Mottled grey/orange sandy clay
299	174E		Grey clay
300	174E		Mid brown/grey sandy clay
301	174E		Mid brown/grey clay sand
302	174E		Mod pipe cut
303	147E		Light-mid-brown silty sand
304	174E		Mid-light brown silty sand
305	293		Grey clay basal fill
306	293		Mottled orange/grey sandy clay
307	293		Mid-brown sandy silt
308	294		Grey clay basal fill
309	294		Grey/orange sandy clay
310	294		Orange/grey clay sand

# **APPENDIX 2: DIGITAL PHOTOGRAPHIC REGISTER**

Number	Description	From	Conditions
1-3	N facing section of [001] (dwg 6)	Ν	Sun
4	Working shot of [001] (dwg 6)	Е	Sun
5	N facing section of [001] (dwg 6)	Ν	Sun
6-7	S facing section of [021] (dwg 4)	S	Overcast
8	E facing section of [025] (dwg 5)	Е	Sun
9	W facing section of [036] (dwg 7)	W	Overcast
10	NW facing section of [001] (dwg 8)	Ν	Sun
11	NE facing section of [050] (dwg 9)	NE	Cloudy
12	SW facing section of [050] (dwg 10)	SW	Sun
13	N facing section of [055] (dwg 12)	W	Overcast
14	S facing section [055] (dwg 11)	S	Sun
15	West terminus of [060], inner ditch, northern section	W	Overcast
16	West terminus of [060], inner ditch, northern section	Е	Overcast
17	NE facing section of [082] (dwg 13)	NE	Overcast
18	SW facing section of [082] (dwg 14)	SW	Overcast
19	Area shot of [071]	NE	Overcast
20	Area shot of cut [071]	W	Overcast
21	SW facing section of [060]	SW	Overcast
22	NE facing section of [060]	NE	Overcast
23	NW facing section of [075] (dwg 17)	SE	Overcast
24	NW facing section of [071] (dwg 15)	NW	Overcast
25	SE facing section of [076] (dwg 16)	SE	Overcast

Number	Description	From	Conditions
26	NE facing section of [078] (dwg 19)	NE	Overcast
27	SW facing section of [077] (dwg 18)	SW	Overcast
28	NE-SW orientated ditch [082], post-excavation	NE	Sun/Cloudy
29	NW facing section of [076] (dwg 021)	NW	Overcast
30	SE terminus of ditch section [076]	Plan	Cloudy
31	NW terminus of [075]	Plan	Cloudy
32	Post-ex of ditch [055]	S	Overcast
33	Post-ex of ditch [055]	Ν	Overcast
34	NW facing section of [091] (dwg 22)	NW	Rain
35	NE facing section of [078] (dwg 23)	NE	Rain
36	Post-ex of [082] from NE terminus end	NE	Overcast
37	NNW facing section of [100], western side of inner ditch	NNW	Cloudy
	showing terminus (dwg 24)		
38	Post-ex of [091], NW-SE orientated	Plan	Cloudy
39	Post-ex of [091], NW-SE orientated	NW	Cloudy
40	Pre-ex of stone layer. Working shot	Е	Misty
41	Pre-ex of stone layer. Working shot	S	Misty
42	Plan view of post-ex of [025]	N	Rain
43	SE facing section of [060] taken from terminus (dwg 30)	SE	Overcast
44	SE facing section of [060] taken from terminus (dwg 30)	SE	Overcast
45	Post-cleaning of inner ditch at [111]	S	Rain
46	Post-cleaning of inner ditch at [111]	Е	Rain
47	ENE-WSW orientated ditch section [078]	ENE	Misty
48	ENE-WSW orientated ditch section [078]	WSW	Misty
49	Working shot of SW section of inner ditch facing W	Е	Misty
50	Stone deposit facing E	W	Misty
51	General view SE section of inner ditch facing E	W	Misty
52	Stone deposit facing N	S	Misty
53	General view SE section of inner ditch	W	Misty
54	Stone deposit facing E	W	Misty
55	Stone deposit facing N	S SE	Misty
50	terminus)	SE	IVIISty
57	SE section inner ditch facing NE	SW	Misty
58	Detail of stone deposit of penultimate section of inner ditch	SE	Misty
	before E terminus facing NW		
59	Detail of stone deposit of penultimate section of inner ditch	SE	Misty
	before E terminus facing NW		
60	Detail of stone deposit of penultimate section of inner ditch	SE	Misty
(1	before E terminus facing NW	Б	Minter
01	E terminus southern inner ditch facing NE	E	Mistre
62	E terminus southern inner ditch lacing 5 w	NE SE	Cloudy
64	Inner ditch section [100] looking from parthern terminus	SE N	Cloudy
65	E terminus of northern inner ditch [174] facing W pre ex	E IN	Cloudy
66	E terminus of northern inner ditch [174] facing S, pre ex	N	Cloudy
67	General shot of long stone deposit up to terminus inner ditch	NF	Cloudy
07	[174]		Cloudy
68	Stone deposit in north inner ditch facing S	N	Cloudy
69	Stone deposit in north inner ditch facing W	E	Cloudy
70	NW facing section of [100] (dwg 27),	NW	Overcast
71	Inner ditch stone deposit, northern sector facing W	E	Overcast
72	Inner ditch stone deposit, northern sector facing S	N	Overcast
74	Final sector of inner ditch [060]		Overcast
75	Working shot of whole site from spoil heep	W W	Overcast
76	SE facing section of [110] (dwg 28)	SE	Sunny
10			Sumy

Number	Description	From	Conditions
77	Ditch terminus of [105], post-ex	SE	Sunny
78	NW facing section of [110] (dwg 29)	NW	Sun/Cloudy
79-80	W facing section of ditch [111] (dwg 33)	W	Sun/Cloudy
81	SE facing section of [111] (dwg 32)	SE	Sun/Cloudy
82-3	Post-ex of [111] . Between dwgs 32-33	SE	Overcast
84-6	Post-ex of [111]. Between dwgs 32-33	W	Overcast
87-8	SE facing section of [021] (dwg 34)	SE	Sunny
89	SW facing terminus section of [115A] (dwg 36)	SW	Overcast
90	NE facing terminus section of cut [111d] (dwg 35)	Е	Overcast
91	NW facing section of [021] (dwg 37)	NW	Overcast
92	NW facing section. [021] (dwg 38)	NW	Overcast
93-4	Working shot of site	W	Sun
95	In-situ photo of large mammal scapula (FN:17) in ditch	Plan	Sun/Cloudy
	section[115b] taken from above (aligned SW-NE)		
96	In-situ photo of large mammal scapula (FN:17) taken with	SW	Overcast
	section [115b]		
97	NE facing section of [115c] (FN: 10-12, 15, 16)	NE	Rain/Cloud
98	E facing section of [111b]	E	Rain/Cloud
99	W facing section of [111b], (126, 127, 153), (dwg 40)	W	Rain/Cloud
100	W facing section of [111b] with shallow slot on N facing edge (127, 153, 126)	W	Sunny
101	Overhead shot of [111b]	W	Overcast
102	Overhead shot of [111b] showing section of base at W end	Е	Overcast
103	Overhead shot of [111c]	NW	Overcast
104	E facing section [111c] (dwg 41)	Е	Overcast
105	NE facing section of [115c] (FN: 10-12, 15, 16) Inner ditch undate of photo 97	SW	Sun/Cloudy
106	SW facing section of [115b] (dwg 42)	SW	Overcast
107	Post-ex shot of the SE terminus of [071]	NE	Overcast
108	Post-ex shot of [036] in outer ditch	N	Overcast
109	Post-ex shot of [036] of outer ditch	Е	Overcast
110	Mid-ex shot of posthole [166]	S	Overcast
111	Re-shoot of photo 89 showing [115]	SW	Overcast
112	Post-ex of post hole [166]	S	Overcast
113	Post-ex of post hole [064]	S	Overcast
114	Possible post hole [173], within ditch section [115c]	From	Cloudy/Rain
115	SSE facing section of [174d] (dwg 47)	SSE	Cloudy
116	NW facing section of [174d] (dwg 46)	NW	Cloudy
117	NNW facing section of [174e] (dwg 73)	NNW	Cloudy
118	NNW facing section of [174b] (dwg 49)	NNW	Cloudy
119	S facing section of [174c] (dwg 48)	S	Overcast/
		~	Rainy
120	S facing section of [174b] (dwg 50)	S	Overcast/
			Rainy
121	S facing section of [174b] (dwg 50)	S	Overcast/
			Rainy
122	N facing section of [174c] (dwg 51)	Ν	Clear
123	SSE facing section of [174e] (dwg 74)	SSE	Overcast
124	SE facing section of [174f]	SE	Overcast
125	Health + Safety at work	Е	Overcast
126	NW facing section of [174f]	NW	Overcast
127-8	NW facing section of [174g]	NW	Overcast
129	SW facing ditch [235d] and 'bridge' (244)	SW	Sun/Cloudy
130	SE facing ditch [235d] and 'bridge' (244)	SE	Sun/Cloudy
131	SE facing ditch [235d] and 'bridge' (244)	SE	Sun/Cloudy
132	SE facing ditch [235d] and 'bridge' (244)	SE	Sun/Cloudy

Number	Description	From	Conditions
133	NE facing ditch [235d] and section	NE	Sun/Cloudy
134	NE facing ditch [235d] and section	NE	Sun/Cloudy
135	NE facing section of [235a] (dwg 54)	NE	Cloud
136	NE facing section of [235a] (dwg 54)	NE	Cloud
137	NE facing section of [235a] (dwg 54)	NE	Cloud
138	SW facing section of [235c] (dwg 55)	NE	Rain
139	NE facing section ditch [235c] (dwg 56)	SW	Rain
140	SW facing section ditch [235d] (dwg 57)	NE	Overcast
141	SW facing section ditch [235d] (dwg 57)	NE	Overcast
142	NF facing section ditch [235d] (dwg 58)	SW	Overcast
143	NF facing section ditch [235d] (dwg 58)	SW	Overcast
143	Ditch cut [235d]	SF	Overcast
145	Ditch cut [235d]	SW	Overcast
145	Ditch cut [235d]	NE	Overcast
140	SW facing section ditch [235c] (dwg 55)	SW	Overcast
147	NE facing section of [235d] (with tins in section)	SW	Cloud
140	NE facing section of cut [235d] (with this in section)	SW	Cloud
149	NE facing section of cut [235d] (with tins in section)	SW	Cloud
150	SW facing section of cut [235d] (with tins in section)	NE	Cloud
151	SW facing section of cut [235d] (with tins in section)	NE	Cloud
152	SW facing section of cut [255d] (with tins in section)	NE	Cloud
155	5 w facing section of cut [2550] (with this in section)		Cioud
154	E facing section of $[1/4h]$ (dwg 60)		Sun
155	W facing section of [174h] (dwg 61)	W	Sun Sun/Clauda
150	General shot [174b] (from interior)	W	Sun/Cloudy
157	General shot [174b] (from interior)	W	Sun/Cloudy
158	General shot [174b] (from interior)	IN C	Overcast
159	General shot [174b] (from interior)	5	Overcast
160	General shot [1/4b] (from exterior)	E	Overcast
161	General shot [1/4c] (from interior)	W	Overcast
162	General shot [1/4c] (from exterior)	E	Overcast
163	General shot [1/4c] (lengthways)	N	Overcast
164	General shot [1/4c] (lengthways)	S	Overcast
165	General shot [1/4d] (from interior)	W	Overcast
166	General shot [1/4d] (from exterior)	E	Overcast
167	General shot [1/4d] (lengthways)	N	Overcast
168	General shot [1/4d] (lengthways)	8	Overcast
169	General shot [1/4f] (from interior)	S	Overcast
170	General shot [174f] (from exterior)	N	Overcast
171	General shot [174f] (lengthways)	W	Overcast
172	General shot [174f] (lengthways)	E	Overcast
173	General shot [1/4g] (from interior)	S	Overcast
174	General shot [1/4g] (trom exterior)	N	Overcast
175	General shot [1/4g] (lengthways)	W	Overcast
176	General shot [174g] (lengthways)	E	Overcast
177	General shot [174h] (from interior)	S	Overcast
178	General shot [174h] (from interior)	S	Overcast
179	General shot [174h] (from exterior)	N	Overcast
180	General shot [174h] (lengthways)	W	Overcast
181	General shot [174h] (lengthways)	Е	Overcast
182	General shot [235c] (from interior)		Overcast
183	General shot [235c] (from exterior)		Overcast
184	General shot [235c] (lengthways)	SW	Overcast
185	General shot [235c] (lengthways)	NE	Overcast
186	General shot [235a] (from interior)		Overcast
187	General shot [235a] (from exterior)		Overcast
188	General shot [235a] (lengthways)		Overcast
189	General shot [235a] (lengthways)		Overcast

Number	Description	From	Conditions
190	General plan shot [174e]	WSW	Overcast
191	General shot [174e] (lengthways)	SSE	Overcast
192	General shot [174e] (lengthways)	NNW	Overcast
193	NE facing section of [115d] (dwg 62)	NE	Overcast
194	S facing section of [174a] inner terminus (plan view)	S	Overcast
195	S facing section of [174a] inner terminus (plan view)	S	Overcast
196	Plan view of inner terminus [174a]	W	Overcast
197	Plan view of inner terminus [174a]	Ν	Overcast
198	South facing section of [174a]	S	Overcast
199	South facing section of [174a]	S	Overcast
200	Plan view of inner terminus [174a]	W	Overcast
201	Plan view of inner terminus [115d]	NW	Overcast
202	Plan view of SE part of [115d]	NW	Overcast
203	Plan view of NE part (terminus end) of [115d]	SW	Overcast
204	Plan view of SW part (section end – dwg 62) of [115d]	NE	Overcast
205	Plan view of NW part of inner terminus [115d]	SE	Overcast
206	NE facing section of [060a] (dwg 65)	NE	Wet
207	NE facing section. Cut [060a] (dwg 65)	NE	Wet
208	SW facing section of [235f] (dwg 66)	SW	Rain
209	Overhead shot of terminus of [235f]	NE	Rain
210	SW facing section of [235e]	SW	Rain
211	NE facing section of [235e]	NE	Rain
212	General view of SW facing section of [235e]	SW	Rain
213	General view of NE facing section of [235e]	NE	Rain
214	Plan view of [235e]	SE	Rain
215	Overhead shot of terminus from SW of [235f]	SW	Rain
216	Plan view of [235f]	SE	Rain
217	NW facing section [174g] (dwg 59)	NW	Rain
218	SE facing section [174g] (dwg 64)	SE	Rain
219	Overhead shot of [060a]	NW	Overcast
220	Plan view of [060a]	W	Overcast
221	Section view of [060a]	W	Overcast
222	NE facing section of [235b] (dwg 69)	NE	Fair
223	SSW facing section of [060b]	SSW	Overcast
224	N facing section of [060b]	S	Overcast
225	Plan shot of [060b] from S	S	Overcast
226	Plan shot of [060b] from SSW	SSW	Overcast
227	Long plan of [235b] + section	SW	Fair
228	Long plan of [235b] + section	NE	Fair
229	Plan (from rubble interior)	S	Fair
230	SW facing section of [235b] (dwg 70)	SW	Fair
231	General shot Looking towards NE section of outer ditch/terminus [021]	N	Sunny
232	General shot of NE section of outer ditch [021] looking towards	NE	Sunny
233	General shot of NE section of outer ditch [021] looking towards	NW	Sunny
02.4		N	9
234	Looking along NE section of outer ditch [021] towards terminus	N	Sun
225	with modern pipe cut on KHS	C	Sum
235	[292] and [291]	8	Sun
236	Shot of [292] and [291]	SE	Sun
237	NE section of outer ditch [021], [292] and [291] and two	SE	Sun
	intersecting modern pipe cuts		
238	NE section of outer ditch [292] and [021]	NW	Sun
239	General shot of NE section of outer ditch [021], [292] and [291]	Е	Sun
240	Looking N from northern terminus of NE section of outer ditch	S	Cloudy

Number	Description	From	Conditions
	[021], [292] and [291]		
241	Looking south towards terminus of NE section of outer ditch	Ν	Cloudy
	[021]		
242	Looking NNW along section [292] and [291] of NE part of	SSE	Cloudy
	outer ditch		
243	Looking SE along section [292] and [021] of NE part of outer	NW	Cloudy
	ditch		
244	Looking towards northern terminus of NE part of outer ditch	NW	Cloudy
245	Looking towards northern terminus of NE part of outer ditch	NE	Cloudy
		~	
246	S facing section of inner ditch [060c] (dwg 72)	S	Sun
247	S facing section of inner ditch [060c] (dwg 72)	S	Sun
248	Looking NE along the SE part of outer ditch [001] with	SW	Sun
	southern terminus		
249	Looking NE along the SE part of outer ditch [001] with	SW	Sun
	southern terminus		
250	Looking NE along the SE part of outer ditch [001] with	WSS	Sun
	southern terminus		
251	Looking NE along the SE part of outer ditch [001] with	SSW	Sun
	southern terminus		
252	Looking from southern terminus of outer ditch [001]	NNE	Sun
253	Looking from southern terminus of outer ditch [001]	NNE	Sun
254	Looking from southern terminus of outer ditch [001]	ENE	Cloudy
255	Looking from southern terminus of outer ditch [001]	NE	Cloudy
256	Looking from southern terminus of outer ditch [001]	NE	Sun
257	Looking from southern terminus of outer ditch [001]	NE	Sun
258	Looking from southern terminus of outer ditch [001]	NE	Sun
259	Looking from southern terminus of outer ditch [001]	ENE	Sun
260	Looking WSW along ditches [001], [010], [293], [294], [295],	ENE	Sun
	[036], [025] and [091] of southern part of outer ditch		
261	Looking ENE along ditches [295], [294], [293] [010] and [001]	WSW	Sun
262	Looking ENE along ditches [294], [293] [010] and [001]		Sun

## **APPENDIX 3: DRAWINGS REGISTER**

No.	Sheet	Description	Sec/Plan	Scale
1	1	Section 1, SW facing section of [001]	S	1:20
2	1	Section 2, NE facing section of [010]	S	1:20
3	1	Section 3, SW facing section of [001]	S	1:20
4	1	South facing section of [021]	S	1:20
5	1	East facing section of [025]	S	1:20
6	2	North facing section of [001]	S	1:20
7	2	West facing section of [036]	S	1:20
8	2	North facing section of [001]	S	1:20
9	2	Northeast facing section of [050]	S	1:20
10	2	SW facing section of [050]	S	1:20
11	3	South facing section of [055]	S	1:20
12	3	North facing section [055]	S	1:20
13	3	NE facing section of [082]	S	1:20
14	3	SW facing section of [082]	S	1:20
15	3	NW facing section of [071]	S	1:20
16	3	SE facing section of [076]	S	1:20
17	3	NW facing section of [075]	S	1:20
18	3	SW facing section of [077]	S	1:20

No.	Sheet	Description	Sec/Plan	Scale
19	3	NE facing section of [078]	S	1:20
20	4	Terminus profile [060]	S	1:20
21	4	NW facing section of [076]	S	1:20
22	4	NW facing section of [091]	S	1:20
23	4	NE facing section of [078]	S	1:20
24	4	W terminus, inner ditch [100], north facing section	S	1:20
25	5	W terminus, inner ditch profile of [100]	Profile	1:20
26		VOID		
27	5	W terminus, W facing section (inner ditch) [100]	S	1:20
28	5	Cut of edge of terminus, SE facing section of [110]	S	1:20
29	5	Remains of overcut terminus, NW facing section of	S	1:20
		[110]		
30	4	SE facing section of [060]	S	1:20
31	4	SE facing section of [105]	S	1:20
32	5	SE facing section of [111]	S	1:20
33	5	W facing section of [111]	S	1:20
34	6	SE facing section of [021]	S	1:20
35	5	NE facing section [111d]	S	1:20
36	6	SW facing section of [115a]	S	1:20
37	6	N facing section of [021]	S	1:20
38	6	NW facing section of [021], terminus	S	1:20
39	6	NE facing section of [115c]	S	1:20
40	6	W facing section of [111b]	S	1:20
41	6	E facing section of [111c]	S	1:20
42	7	SW facing section of [115b]	S	1:20
43	7	Profile of post hole [164]	Profile	1:10
44	7	Profile of post hole [166]	Profile	1:10
45	7	NE facing section of possible post hole [173] near cut	S	1:20
		[115c]		
46	8	NW facing section of [174d]	S	1:20
47	7	SSE facing section of [174d], inner ditch	S	1:20
48	8	S facing section of [174c], inner ditch	S	1:20
49	7	NNW facing section of [174b]	S	1:20
50	7	S facing section of inner ditch [174b]	S	1:20
51	8	N facing section of inner trench [174c]	S	1:20
52	8	NW facing section of inner ditch segment [174f]	S	1:20
53	8	SE facing section of inner ditch segment [174f]	S	1:20
54	9	NE facing section of inner ditch [235a]	S	1:20
55	10	SW facing section of inner ditch [235c]	S	1:20
56	10	NE facing section of inner ditch [235c]	S	1:20
57	9	SW facing section of inner ditch [235d]	S	1:20
58	9	NE facing section of inner ditch [235d]	S	1:20
59	11	SW facing section of inner ditch [174g]	S	1:20
60	10	NE facing section of inner ditch segment [174h]	S	1:20
61	10	SW facing section of inner ditch [174h]	S	1:20
62	9	NE facing section of inner terminus [115d]	S	1:20
63	13	S facing section of inner terminus [174a]	S	1:20
64	11	SE facing section of inner ditch [174g]	S	1:20
65	13	NE facing section of [60a]	S	1:20
66	10	SE facing section of inner ditch [235f]	S	1:20
67	12	NE facing section of inner ditch [235e]	S	1:20
68	12	SW facing section of inner ditch [235e]	S	1:20
69	9	NE facing section of [235b]	S	1:20
70	13	SW facing section of [235b]	S	1:20
71	12	SSW facing section of [060c]	S	1:20
72	12	S facing section of [060d]	S	1:20

# **APPENDIX 4: FINDS**

SF	Context	Cut	Other	Find	No.	Wt	Notes	Spotdate
no.		no		type	1.5	(g)		
				Animal Bone	15	135		
				Animal	1	1		
				Bone				
				Clay Pipe	1	2	Stem	Post-med
				Glass	2	41	Clear bottle and blue sherd	Modern
				Pottery	15	66		Post-med
54			Surface	Stone	1	29	Shale	Prehistoric
55			Surface	Stone	1	14	Worked Shale	Prehistoric
			Surface	Stone	1	467	Worked Shale	Prehistoric
			Surface-within inner ditch	Fe	1	40	Curved and tapered broken rod, square in section	Modern
			Surface-within inner ditch	Pottery	4	18		19th C
			Surface-within inner ditch	Animal Bone	1	1		
2		25	Pipe trench	Stone	1	83	Worked Shale	Prehistoric
1	23	21		Stone	1	12	Worked Shale	Prehistoric
52		174h		Pottery	1	9		Post-med/ modern
		115d		Animal	4	16		
				Bone				
7	114	115		Animal Bone	2	1		
9	114	115		Animal Bone	1	21		
	114		<14>	Organics?	1	3	Modern- discarded	
3	128	21		Animal	49	11		
				Bone				
4	128	21		Animal Bone	20	7		
5	128	21		Animal Bone	39	6		
18	140	138		Animal	81	107		
	147	115b		Animal	21	52		
8	147	115	Trench C	Animal	278	34		
10	147	115	Trench C	Animal	19	4		
11	147	115	Trench C	Animal	18	2		
12	147	115		Animal	45	11		
12	14/	113		Bone	+3			
15	147	115		Animal Bone	37	5		
17	147	115b		Animal Bone	248	50		
24	147	115c		Animal Bone	75	36		

SF	Context	Cut	Other	Find	No.	Wt	Notes	Spotdate
<b>no.</b>	147	<b>no</b>		type	1	(g)	Dessible	Drahistoria
45	14/	1150		Stone		399	Hammerstone	Prenistoric
48	147	115c		Animal	31	40		
				Bone				
6	149	115		Animal	10	8		
				Bone				
14	151			Stone	2	32	Shale	Prehistoric
14	151			Stone	1	21	Quartz	Prehistoric
13	152			Stone	4	230	Quartz Pebbles	Prehistoric
19	152	105		Stone	2	388	Worked Shale	Prehistoric
20	152	105		Stone	1	75	Worked Shale	Prehistoric
21	152	105		Stone	1	254	Pecking stone?	Prehistoric
22	152	105		Stone	1	37	Worked Shale?	Prehistoric
23	152	105		Stone	1	710	Worked Stone?	Prehistoric
44	163	115c		Stone	1	395	Worked Shale	Prehistoric
46	163	115c		Animal	14	2		
				Bone				
47	163	115c		Animal Bone	72	15		
	167	166		Charcoal		1		
25	172	115d		Animal	9	5		
				Bone				
	175	115d		Animal	34	728		
				Bone				
29	223	115d		Animal	15	16		
				Bone				
35	223	115d		Animal	35	31		
				Bone				
39	223	115d		Animal	38	5		
				Bone				
28	224	115d		Animal	1	22		
21	224	1151	<24>	Bone		1		
31	224	1150	<24>	Charcoal	10	1		
32	224	1150		Animai	10	22		
33	224	115d		Charcoal		103		
33	224	115d		Animal	1	22		
54	224	1150		Bone	4	22		
38	224	115d		Animal	17	40		
50	224	1150		Bone	1 /	-10		
40	224	115d		Animal	60	9		
	·			Bone		-		
36	226	115d		Animal	78	17		
				Bone				
37	226	115d		Animal	99	20		1
				Bone				
27	239	235d		Stone	1	79	Worked Shale	Prehistoric
	249	174g	<31>	Charcoal		41		
41	264	174a		Animal	19	59		
				Bone				
50	270	60b		Animal	1	3		
				Bone				1
53	270	60a		Charcoal		5		

# **APPENDIX 5: SAMPLES REGISTER**

No.	Context	Description	Volume (l)
1	020	Large tin – soil micromorph	
2	018/019/020	Large tin – soil micromorph	
3	009/018	Large tin – soil micromorph	
4	056/057	Environmental sample	20
5	064 (& 067?)	Environmental sample	10
6	070	Environmental sample	10
7	103	Environmental sample	20
8	106	Environmental sample	20
9	108	Environmental sample	10
10	109	Environmental sample	10
11	112	Environmental sample	20
12	112	Environmental sample	20
13	114	Environmental sample	20
14	114	Dating sample	1x small bag
15	114	Environmental/ Dating sample	5
16	126	Environmental sample	5
17	151	Routine bulk environmental sample	20
18	152	Routine bulk environmental sample	20
19	147	Base fill of 115 from Trench B	10
20	159	Possible post hole remains	
21	037	Environmental sample	20
22	165	Post hole fill	1x medium bag
23	167	Post hole fill	1x medium bag
24	167	Charcoal (possibly)	
25	208	Environmental sample	40
26	195/ 220	Environmental sample	40
27	243	Environmental sample	20
28	239	Environmental sample	20
29	247	Environmental sample	40
30	249	Environmental sample	40
31	249	Charcoal (possibly)	
32	258	Environmental sample	40
33	259	Wood	
34	236/237/241	Large tin – soil micromorph	
35	237	Large tin – soil micromorph	
36	236/237	Large tin – soil micromorph	
37	236	Large tin – soil micromorph	
38	241/236	Large tin – soil micromorph	
39	243/242	Large tin – soil micromorph	
40	243	Large tin – soil micromorph	
41	242	Large tin – soil micromorph	
42	241/240	Large tin – soil micromorph	
43	239	Large tin – soil micromorph	
44	262/261	Environmental sample	10
45	259/260	Environmental sample	20
46	264	Base fill – dating	40
47		Base fill	40
48	274	Base fill	40
49		Base fill	40
50	278	Environmental sample	10
51	279	Environmental sample	10
52	280/281	Environmental sample	10
53	282	Base fill	30
54	296	Base fill	30

Section No.	Section	Ditch	Ditch	<b>Contexts Present</b>	Comments
	(m)	(m)	(m)		
001A	4	1.4	4.25	001, 009, 030, 029, 031, 031, 032, 035	U-shaped ditch profile with flat base. Upper fills truncated by pipe cut. Grey sandy clay stony basal fill (030). Deposits are concave in profile. Drawing 6.
001B	3.3	1.4	4.65	001, 009, 040, 041,	U shaped ditch profile. Upper fill has pipe cut. Sub-circular concentration of stone in bottom
				042, 043, 044, 045, 046, 047, 048, 049	centre of ditch. Deposits are concave in profile. Drawing 8.
001C	3.2	1.3	4.2	001, 009, 018, 019,	V-shaped profile. No concentration of stones within this ditch section. Drawing 3. Deposits are
				020	concave in profile
001D	4	1.05	3.65	001-009	V-shaped ditch profile. Deposits are concave in profile. Drawing 1.
010A	4	1.0	3.05	010, 011, 012, 013,	[010] Sub-circular conjoined pit (3m NW-SE by 2.7m NE-SW). Part of southern circuit of
				014, 015, 016, 017	outer ditch. Deposits are concave in profile. Drawing 2. Small amount of stone on NW side but
					not a huge concentration.
036A	3.2	0.5	2.1	036, 037, 038, 039	[036] is an oval pit (3.5m E-W by 2.2m N-S). Forming part of southern circuit of outer ditch. U-shaped in profile. Drawing 7
025	3.2	0.7	2.6	025, 026, 027, 028	Sub-circular pit (2.8m NW-SE by 2.8m NE-SW) forming part of southern part of outer ditch.
					U-shaped ditch profile. Deposits are concave. Drawing 5
091	1.6	0.5	1.0	091, 092, 093, 094, 095	Oval pit (3m NW-SE by 1.1 NE-SW). V-shaped ditch profile.
071	2.0	0.2	1.5	071, 072, 073	Very shallow sub-rectangular pit (4m NW-SE by 1.8 m NE-SW). Flat base with shallow sloping sides. Drawing 15.
076A	1.0	0.3	1.5	069, 076, 079, 080,	A sub-rectangular pit section (6.5m NW-SE by 1.7m NE-SW) forming part of the south-
				081	western curvilinear section of ditch. Shallow, u-shaped ditch profile.
076B	5.0	0.2	1.4	069, 076, 079, 080, 081	Gently sloping sided and a flat based sub-rectangular pit (as above).
075	2.0	0.21	2.3	074, 075, 088, 089, 121	Gently sloping sides with a flat base. Truncated by pipe cut [088].
					A sub-rectangular pit (7.8m NW-SE by 2m NE-SW) forming part of the discontinuous outer circuit of ditch.
055A	0.8	0.5	1.6	055, 056, 057	The ditch in profile had moderately steep sides and a flat base. A sub-rectangular pit (6.4m N-S by 2.0m E-W) forming part of the western outer ditch. Drawing 11
055B	1.9	0.5	1.9	055, 056, 057	As above. Drawing 12

**APPENDIX 6: Summary of Excavated Sections** 

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Section No.	Section Length	Ditch Depth	Ditch Width	Contexts Present	Comments
050A	4.4	0.6	2.3	050, 053, 054	Brown/grey silty clay basal fill. Sub-rectangular pit (9m NE-SW by 2.2m NW-SE) forming part of the north-western circuit of the outer ditch. Drawing 10.
050B	2.2	0.55	2.2	$\begin{array}{c} 050,051,052,053,\ 054 \end{array}$	U-shaped ditch profile. Brown/grey silty clay basal fill. [050] forms part of the north-western outer ditch circuit.
082A	1.0	0.55	1.95	$\begin{array}{c} 061,066,067,068,\\ 082 \end{array}$	Moderately steep sides with a flat base. No stones and typical grey clay basal fill with sandy clay overlying. Drawing 14
082B	4.4	0.4	2.15	$\begin{array}{c} 061,062,063,064,\\ 065,082 \end{array}$	Shallow sided and concave base. Deposits are concave in profile. Drawing 13
078A	0.2	0.45	2.6	078, 097, 098, 099	V-shaped but with a flat base in profile. The deposits are very slightly concave in profile. Both sections through [078] are extremely wide in comparison to deep. Drawing 23
078B	1.0	0.3	2.3	058, 059, 078	Extremely shallow sided with flat base. The eastern side of the ditch section [078] has slightly steeper sides. Only one major fill (059) – grey/orange sandy clay. Drawing 19
077	1.7	0.2	2.4	077, 158	Very shallow ditch in profile with gently sloping sides and a flat base. Only one fill which is the same grey/orange clay basal fill. Drawing 18.
021A	3.1	1.05	4.3	021-024	V-shaped ditch profile. Stony layer is (023). Mostly stone fill which is to be expected at section closest to terminus. However, it is the outer ditch.
021B	2.9	0.75	3.6	021, 128-137	Shallow sloping sides with a concave base. Truncated by pipe cut [136]. Deposits are concave in profile. Very little in the way of stone fills.
(292)(021C)	2.2	0.4	3.0	141-143, 292	Shallow sloping sides with a concave base. Practically no stones in fills. Grey clay basal fill with sandy silt upper fill. Reflection of the profile of [292] although labelled [021].
291(021D)	4.5	0.4	1.1	144-146, 291	Very small section as its at terminus, or end of ditch. U-shaped ditch profile. Deposits are concave in profile.
174A	4.5	1.3	3.2	174, 199, 264	V-shaped ditch profile with rounded, concave base. The deposits are concave. This section nearest northern terminus, therefore, there is a high concentration of stone in the upper fill (199)
174B (N-facing)	4.0	1.2	3.0	174, 199, 200, 201, 202	V-shaped ditch profile with rounded base. The deposits are concave in profile. Large amount of stone upper fill (199). Drawing 49.
174B (S-facing)	4.0	0.95	2.7	174, 203, 204, 205, 206	V-shaped ditch profile. As before, the upper fill (203) has a large number of large rocks inclusions. Drawing 50
174C (N-facing)	4.0	1.0	3.0	174, 207, 208, 209	V-shaped ditch profile. The deposits are concave. The upper fill (209) has high concentration of large, stone inclusions. Drawing 51
174C (S-facing)	4.0	0.7	2.5	147, 189, 190, 191,	V-shaped ditch profile. The deposits are concave. Deposits partly truncated by clay pipe. Upper

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Section No.	Section	Ditch	Ditch	<b>Contexts Present</b>	Comments
	Length (m)	Depth (m)	Width (m)		
				296	stone fill same as previously (brown, sand clay. Drawing 48.
174D (N-facing)	3.5	0.7	2.5	174, 175, 176	V-shaped ditch profile with rounded, concave base. The deposits are concave. Eastern side of ditch has been truncated by modern field drain. Therefore, the ditch width may have been up to
					3.0m. (1/b) is the sandy, stony upper fill but (1/2) also contained a large amount of stone but was more clay. Drawing 46
174D (S-facing)	3.5	0.8	3.7	174, 177-188, 297	U-shaped ditch profile. The deposits are concave in profile. Modern field drain [177] runs through the middle of this part of the ditch. (187) and (188) are the stony fills. Drawing 47
174E NNW- facing)	4.2	0.9	3.1	174, 298- 304,	V-shaped ditch profile with rounded base. The deposits are concave in profile. The upper stone fills (have been truncated by a clay pipe cut [177].
174E (SE-facing)	4.2	0.75	2.7	174, 298, 299, 301, 303	V-shaped ditch profile. The deposits are concave in profile.
174F (NW- facing)	3.5	0.9	3.2	174, 193-198, 211- 216	Drawing 52
174F (SE-facing)	3.5	0.85	2.9	174, 217-222	V-shaped ditch profile but with rounded, concave base. Deposits are concave in profile. Grey basal fill (220). Stony fill (221).Drawing 53
174G (NW- facing)	3.8	0.0	2.6	147, 249-254	U-shaped ditch profile. The deposits are concave in profile. Stone fill is (250).
174G (SE-facing)	3.8	0.9	2.5	147, 249-254	V-shaped ditch profile with rounded, concave base.
174H (W-facing)	5.0	0.9	2.7	174, 259-262	V-shaped ditch profile. Deposits are concave in profile. Stone fill is (261). Drawing 61
174H (E-facing)	5.0	6.0	2.9	174, 259-262	Moderately steep sides with a flat base. The deposits are concave. Stone fill is the same as before (261). Basal fill is less clay and more sandy in this section. Drawing 60.
235A	4.2	1.0	2.4	235, 245-247	V-shaped with a concave, rounded base. Deposits are concave in profile. The stony layer is (246). Drawing 54
235B (SW- facing)	4.0	1.25	2.6	235,278-281	U-shaped ditch profile. The deposits are concave in profile. Stony fill is (278). Drawing 70
235B (NE-facing)	4.0	1.3	3.5	235, 278-281	V-shaped with a flat base in profile. The deposits are concave in profile.
235C (SW- facing)	4.0	1.1	3.4	235, 240, 255, 256, 257-258	Roughly u-shaped in profile. However, the northern ditch edge is approximately 45%. The denosits are concentration of stone in
IdVIII <i>B)</i>				201, 200	the fill. Drawing 55
235C (NE-facing)	4.0	1.1	3.1	235, 240, 255-256, 258	V-shaped ditch profile. The deposits are concave. The stony fill (254-255) is not as concentrated. Drawing 56
235D (SW-	4.0	1.0	3.5	235, 236, 237, 238,	V-shaped ditch profile. Practically no stones in the upper fill. However, the upper fills have

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Section No.	Section	Ditch	Ditch	<b>Contexts Present</b>	Comments
	Length	Depth	Width (m)		
facing)				239	been severely truncated by pipe cut. Drawing 57
235D (NE- facing)	4.0	6.0	3.0	235, 236, 240-243	V-shaped ditch profile. Stony fill is (236). Drawing 58
235E (SW- facing)	3.5	0.8	2.7	235, 273, 274, 275, 276, 276a	V-shaped ditch profile. Deposits are concave in profile. Drawing 68
235E (NE-facing)	3.5	0.8	2.5	235, 273, 274, 275, 276	Gently sloping sides with a flat base. Deposits are concave I profile. Very little in the way of stone visible in this section. Stony fill (276). Drawing 67.
235F	3.0	6.0	2.8	235, 265, 266, 267, 268	V-shaped ditch profile. The deposits are very slightly concave. Upper sandy fill is missing (truncated?). The stony fill is (265). Drawing 66. No corresponding section because of terminus.
060A	3.0	0.9	2.8	060, 269, 270, 271, 272	Gently sloping sides, u-shaped base. Deposits are concave in profile. Practically no stone fill. Drawing 65.
060B (SSW- facing)	3.0	0.8	2.85	060, 282, 283, 284, 285, 285a	V-shaped ditch profile. Deposits are concave in profile. The stoney fill is (285a), however, there is very few rocks in this context. Similar to previous sections. Drawing 71
060B (NW- facing)	3.0	0.75	2.5	060, 286-288	V-shaped ditch profile. Deposits are concave in profile. Not drawn. No rock inclusions at all. Only grey/orange mottled clay
060C	3.0	0.75	2.5	060, 282-285a	U-shaped ditch profile. Deposits are concave in profile. Only one or two large rock inclusions in (288). Upper fills truncated by modern test trench. Drawing 72
100A	2.6	0.4	2.1	100, 101, 102, 103, 104	Shallow sided with a concave, rounded base. Deposits are roughly concave in profile. Mostly upper stony fill and lower mottled grey/orange silty clay. Drawing 24
100B	5.5	0.35			Drawing 25 – Profile only!!!!
105	1.6	0.5	2.6	105, 106, 107, 108	Drawing 31
110 (SE-facing	2.3	0.6	2.5	110, 116, 117, 11 119, 120, 124	V-shaped ditch profile. Deposits are concave in profile. Truncated by modern clay pipe cut. Mostly grey basal fills left. Drawing 28.
110 (NW-facing	2.3	0.35	1.3	110, 122, 123	U-shaped ditch profile. Deposits are concave in profile. Only two contexts for fills. Drawing 29.
111A (SE-facing)	6.5	0.75	2.3	111, 112, 126, 127	V-shaped ditch profile. Deposits a slightly concave in profile. Large amount of clay basal fill (126). Small number of rocks within the orange/brown silty clay (127). Drawing 32
111A (W-facing)	6.5	1.0	2.3	111, 112, 126, 127	V-shaped with flat base ditch profile. Deposits are concave in profile. Large volume of stone in upper fill (127) and large amount of silting up with mottled orange/grey sandy clay. Drawing 33
111B	5.5	1.2	3.2	111, 112, 126, 153,	(126) and (153) are the stony fills. Moderately sloping sides (45%) with a flat base ditch

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Comments			profile. Deposits are slightly concave. Drawing 40	U-shaped ditch profile. The deposits are concave in profile. Large volume of stone mostly	context (153) and a few in (126). (127) corresponds with the same grey clay fill observed i	111B. Drawing 41	U-shaped ditch profile. The deposits are concave in profile. Large volume of stone in uppe	(140) and mottled sandy clay basal fill (139). Drawing 35	. Shallow sloping sides and a flat base. The deposits are very slightly concave in profile. Ve	large volumes of stone in fill (113) and some in (114). In fact, it's difficult to see the differ	in contexts as a result. Drawing 36	$\frac{1}{100}$ Stony layer (149 & 150). Quite a large amount of silting up prior to deposition of the stone	Drawing 42		, Not a very distinct stone fill layer but mostly in (149 & 150) Drawing 39.			Possible overcut on the inner side of the ditch. Stoney fills are 263, 234, 234, 232, 227.	Drawing 62
<b>Contexts Present</b>			127	111, 126, 127, 153			111, 139, 140		115, 171, 170, 114,	113		115, 150, 149, 148,	169, 163, 161, 162,	147, 168,	115, 147, 148, 149,	150, 160, 161, 162,	168	172, 223-234, 263	
Ditch	Width	(m)		3.5			3.2		3.4			3.3			3.7			3.5	
Ditch	Depth	(m)		1.1			1.0		1.0			1.2			1.2			1.2	
Section	Length	(m)		2.1			4.6		1.7			3.6			2.1			5.0	
Section No.				1111C (E-facing)			111D		115A			115B			115C			115D	

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Fig. 8 - Outer ditch (001) looking towards terminal



Fig. 9 – Outer ditch (021) looking from terminal

Fig. No:	<b>`</b>	Revision:	Project: Block AA, Winchburgh Masterplan, Beatlie Road,	GISTER		CFA ARCHAEOLOGY LTD				
0-9		A	Winchburgh: Archaeological Excavation			The Old Engine House Eskmills Park, Musselburgh				
Drawn by:	Checked:	Report No:	Client:			East Lothian, Eh21 7PQ				
KH	BG 3098		Sigma Capital Group Ltd per Regenco Ltd	CANISANC		T: 0131 273 4380				
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Fig. 10 - possible posthole (166)



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Fig. 11 – Aerial photograph of crop mark



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Fig. 12 – Stone within inner ditch from SW



Fig. 13 - Conjoining pits 294, 293, 010 and ditch 001 from SW

Fig. No:	40	Revision:	Project: Block AA, Winchburgh Masterplan, Beatlie Road,	GISTER	CFA ARCHAE
12	-13	A	Winchburgh: Archaeological Excavation		The Old Engin Eskmills Park.
Drawn by:	Checked:	Report No:	Client:		East Lothian, I
KH	BG	3098	Sigma Capital Group Ltd per Regenco Ltd	CANISAT	T: 0131 273 4
					E 0131 273 4

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Fig. 14 – Aerial photo showing distribution of stone in inner ditch, copyright West Lothian Archaeological Trust

Fig. No:		Revision:	Project: Block AA, Winchburgh Masterplan, Beatlie Road,	GISTER.	CFA ARCHAEOLOGY LTD
14		A	Winchburgh: Archaeological Excavation		The Old Engine House Eskmills Park, Musselburgh
Drawn by:	Checked:	Report No:	Client:		East Lothian, Eh21 7PQ
KH	BG	3098	Sigma Capital Group Ltd per Regenco Ltd	CANISAT	T: 0131 273 4380
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Fig. 15 - Aerial photo of enclosure post-excavation, copyright West Lothian Archaeological Trust

Fig. No:		Revision:	Project: Block AA, Winchburgh Masterplan, Beatlie Road,	CISTER.	CFA ARCHAEOLOGY LTD
15 A		A	Winchburgh: Archaeological Excavation		The Old Engine House Eskmills Park, Musselburgh
Drawn by:	Checked:	Report No:	Client:	PCANIS ATIO	East Lothian, Eh21 7PQ
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