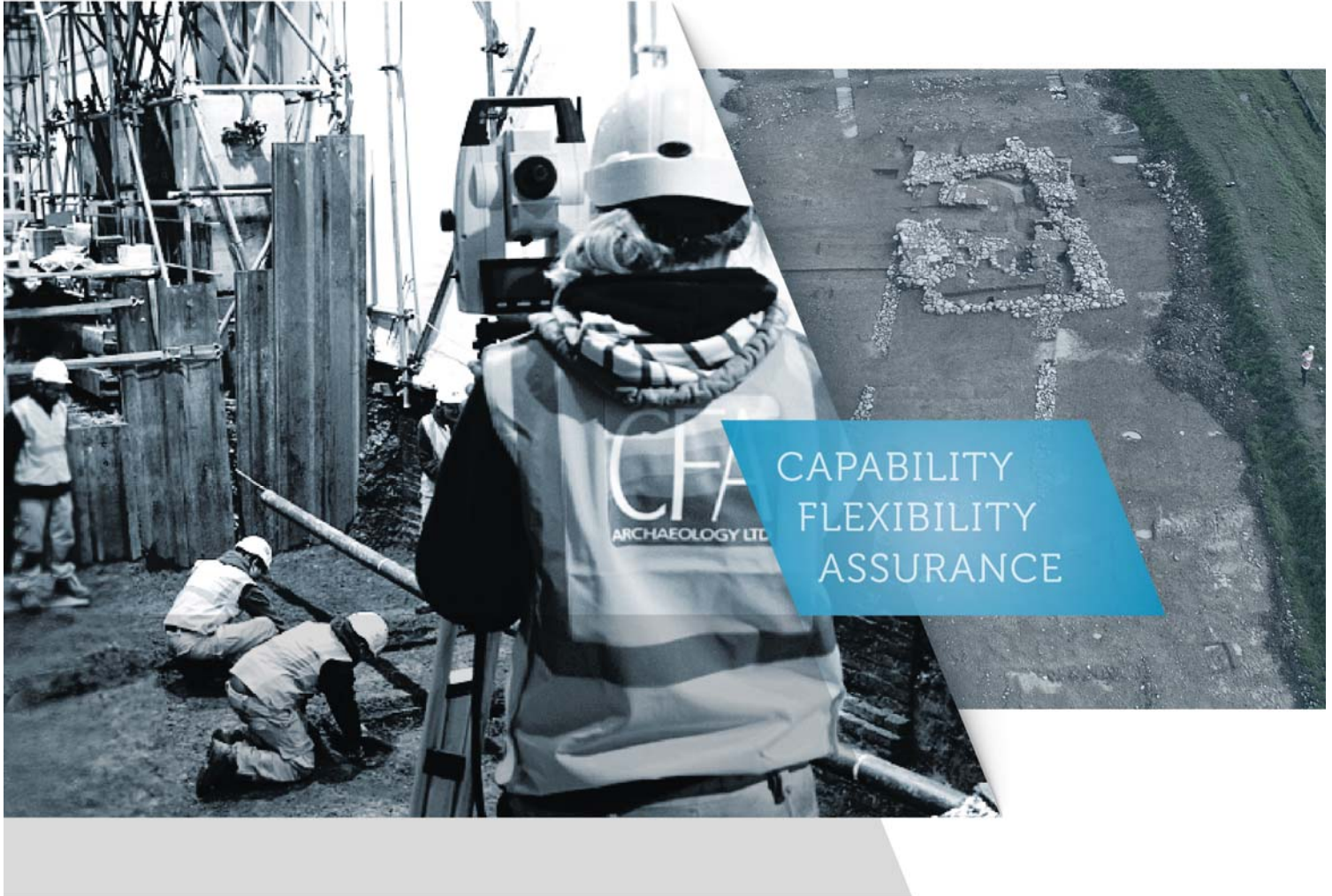




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Site Investigation Works New Brunstane Masterplan Edinburgh

Archaeological Watching Brief
Report No. 3605

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**Site Investigation Works,
New Brunstane Masterplan,
Edinburgh**

Archaeological Watching Brief

Report No. 3605

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1. INTRODUCTION

1.1 General

This report presents the results of an archaeological watching brief carried out by CFA Archaeology Ltd (CFA) between July and October 2017 during site investigation works for the proposed New Brunstane Masterplan on the east side of Edinburgh (Fig. 1). The work was commissioned by IKM Consulting Ltd.

Written Schemes of Investigation (WSIs) dated 05 July 2017 and 07 August 2017 were produced by CFA and approved by the City of Edinburgh Council Archaeology Service (CECAS) prior to the work.

1.2 Background

Site Investigation Works were to be undertaken within the boundary of the New Brunstane Masterplan area (NT 3219 7255 centred). A Cultural Heritage Assessment formed part of the Masterplan EIA. A number of archaeological sites are included within the masterplan area, including two Scheduled Monuments (SMs).

The proposed development area has formed part of the Brunstane Estate since at least the mid-17th century, with the south-western part of the site originally comprising gardens associated with the house. The gardens had largely vanished by 1895, when the OS map shows only a small area of parkland to the north-east and south-east of the house. No upstanding features of the former gardens are now visible, the exception being a slight raise in topography which indicates the location of SM4112. A number of features identified within the masterplan area are believed to relate to coal mining activities.

A geophysical survey of the proposed development area undertaken as part of the EIA identified features previously recorded by the desk-based assessment work, but recorded few other clearly identifiable features, with the exception of some possible ditch and enclosure features. Site numbering follows that in Chapter 8: Historic Environment in the EIA.

The medieval settlement of Gilberstoun was situated in the vicinity of the proposed development area, but its precise location remains unclear, although it may have been situated at the location of Brunstane House, which originally comprised a moated settlement, the remains of which are now visible as a cropmark, and were detected by the geophysical survey (SM10580).

1.3 Objectives

The objectives of the programme of archaeological works were:

- To conduct an appropriate programme of archaeological investigation (watching brief) to monitor groundbreaking operations associated with site investigation works.
- To mitigate the effects of the proposed site investigation works on any archaeological deposits or features identified.

2. WORKING METHODS

2.1 General

All work was conducted in accordance with the Chartered Institute for Archaeologists (CIfA) 'Code of Conduct' and other relevant CIfA Standards and Guidance.

All of the work took place to the west of the railway line (Fig. 1).

2.2 Demarcation

Scheduled Monuments SM4112 and SM10580 were demarcated with canes and bunting to protect them from accidental damage during the works; this took place prior to any work commencing.

The sites were located by GPS. The demarcated area included a buffer zone extending 10m beyond the edge of the scheduled area.

No work took place within the demarcated areas. The fencing remained in place for the duration of all site investigation works.

2.3 Watching Brief

The site investigation works included:

- Soils investigation of the field west of the railway - trial pits and cable percussive boreholes.
- Mineral investigation of the field west of the railway - rotary boreholes.
- Mining related shafts and adits investigation as indicated on IKM drawing 15105-3019. The geophysics undertaken for the archaeology identified a number of possible mineshaft locations. The investigation involved a targeted soil scrape at the identified locations, followed by rotary open-hole drilling into identified features. As the locations of the potential shafts have been identified by geophysics, the soil scrape was restricted to a 10m x 10m area centred on the co-ordinates of the anomaly.

The archaeological response was to monitor the excavation of trial pits and starter pits during the investigations, and to monitor any soil stripping required for the locating of shafts/adits.

The site investigation interventions were excavated by a mechanical excavator. All excavations were undertaken under a watching brief conducted by a suitably qualified archaeologist.

All excavation and on-site recording was carried out according to standard CFA procedures and by completing standard CFA record forms.

3. ARCHAEOLOGICAL RESULTS

3.1 General

Thirty-seven test-pits (TP301-TP319, TP322-TP339), two soakaway pits (TP320, TP321), 65 starter pits (S101-S126, M201-M239) and 15 mining investigation trenches (SH501-SH515) were excavated (Fig. 1).

Numbers in bold below refer to contexts, a full list of which is contained in Appendix 1. The remaining site records form Appendices 2-3.

The site is large and contains varied terrain. It is bisected north to south by the main Edinburgh to London railway line. To the east of Brunstane House (Fig. 3), the ground is fairly level. No the north of this, the site slopes increasingly steeply towards the Brunstane Burn. To the south, the ground slopes gently towards the abandoned Wanton Walls Farm and Newcraighall.

The site (Fig. 2) has been ploughed and then left unsown. It is covered with thistles, and a variety of self-seeded weeds. In general, 0.3m of topsoil (**001**) overlay a sandy subsoil in some test-pits (**002**) and natural in others. The natural (**003**) was in general an orange-brown, fairly soft, gravelly sand with occasional small stones. The exception to this was along the slope in the north of the site where a stiff orange-brown clay-silt with cobbles was present.

3.2 Test-Pits

Each test-pit was around 4m in length, 0.6m in width and was excavated to at least 2.5m in depth. A subsoil was present in most of the sections. A multi-period field drain network was present.

Apart from cultivation furrows and field drains, only one feature was recorded in the thirty-seven test-pits excavated. Test-Pit 324 (Figs. 1, 4) was located on the perimeter of the Walled Garden (Site 20) and a linear ditch feature (**005**) was recorded at the NE end of the trench. This was over 0.5m in width and was filled (**006**) with chunks of lime mortar, stone chips and fragments of fire clay. This is interpreted as a robbed wall foundation trench. No finds were recovered.

3.3 Starter Pits for Rotary & Percussion Boreholes

Each of these was around 0.4m in length and width. They were excavated by hand to 1.2m depth. No clear features were recorded but several of them revealed what appeared to be made ground under the topsoil. This made ground probably relates to mining features.

3.4 Shaft Investigation Trenches

Each of these was 10m in length and 10m in width. Topsoil and subsoil (where present) were removed and any features relating to the geophysical anomalies were exposed in plan. After recording, the upper 2m-4m of the fill were removed to assess the deposits and the nature of the feature.

The work revealed that there were mining features present in each trench except SH513, and these were probably multi-period in nature. Widths of between 5m and 7m were recorded. All shafts were excavated into fairly soft sand and gravels and, where hard capping was not encountered, the sides appeared to be unlined and to be cone-shaped in profile.

Two of these features had a brick capping (SH504 **017**, SH505 **018**, Figs. 1, 5) and one had a stone capping (SH515 **021**, Figs. 1, 6). These features were all in the north of the area to the west of the railway line. To the south of them and to the east of Brunstane House, a second group of mining features were recorded. One of these (SH507 **024**, Figs. 1, 7) was cut by a furrow (**026**) from which a glass bottle was recovered. Trench SH509, comprising feature **032** (Figs. 1, 8), was particularly clear.

Two leg bones from a cow or a horse were recovered from deep within a second, nearby feature (SH510 **035**) but apart from them, no other finds were recovered during the work.

A summary is provided in Appendix 5.

3.5 Finds by Christina Hills

A small quantity of animal bone and glass were recovered on site. The bone was found in deposit **035** within SH510. The glass was all part of the same green modern bottle and found in deposit **027** within SH507.

4. CONCLUSIONS

A watching brief was carried out by CFA Archaeology Ltd during ground investigation works within the area proposed for the Brunstane Masterplan, monitoring geological test pits, starter pits for boreholes and mining investigation trenches.

A feature believed to be a robbed wall foundation trench was recorded in TP324. This is likely to relate to the former Walled Garden (Site 20).

A multi-period suite of mining features was recorded. Some of these may well be either mineshafts or air vents and were lined with either brick or stone whereas some appeared to be conical test-pits to assess the nature of the solid geology. One feature was cut by a cultivation furrow, but the wavelength, and hence potential dating, of the furrows at Brunstane has not so far been established.

The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the National Record for the Historic Environment (NRHE) and copies of reports will be lodged with City of Edinburgh Council Sites and Monuments Record.

A summary statement will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 6) and will also be reported on through *OASIS Scotland*.

APPENDIX 1: Context Register

Context no.	Fill of	Location	Description
001		All	Topsoil
002	003	All	Subsoil. Orange brown silty sand & gravel
004		All	Natural
005		TP324	Cut for Wall Foundation
006	005	TP324	Lime Mortar
009		SH501	Made ground around mineshaft cap
010	011	SH501	Mining feature fill. Red brick and stone
011		SH501	Mining feature cut
012		SH502	Mining feature
013		SH502	Made Ground
014		SH503	Mining feature fill. Coal ash
015		SH503	Mining feature fill
016		SH504	Large shaft
017		SH504	Small brickwork feature. Possible air vent
018		SH505	Brick cap of mining feature with void below
019		SH505	Circular brick feature, possible air vent
020		SH515	Mining feature cut
021		SH515	Circular stone feature lining 020
022		SH506	Cut for mining feature
023	022	SH506	Mixed fill, soil shale, reddish stone chunks
024		SH507	Cut for mining pit
025	024	SH507	Mixed fill
026		SH507	Cut for furrow
027		SH507	Mid brown silty sand & gravel. Broken bottle glass found
028		SH508	Cut for mining pit
029		SH508	Mixed fill
030		SH508	Cut for clay drain
031		SH508	Clay pipes
032		SH509	Cut for mining shaft/test pit
033		SH509	Re deposited shale ring outer and soil and stone
034		SH510	Cut for mining shaft/test pit
035		SH510	Mid brown soil and re deposited orange brown sand and gravel. Two animal bones recovered
036		SH511	Mining feature
037		SH511	Circular brick laid feature, possible shaft
038		SH512	Mining feature
039	038	SH512	Fill of mining feature
040		SH514	Cut of mining feature
041	040	SH514	Fill of mining feature

APPENDIX 2: Photograph Register

Shot No.	Summary description of subject	Taken from
1	S111	NW
2	S111	NW
3	S111 inc, field drain	NW
4	S123	S
5	S123	S
6	S106	NE
7	S106	NE
8	S106	NW
9	S105	NW
10	S105	NW
11	TP318	SE
12	TP317	N
13	TP315	NE
14	TP315	NE
15	TP314	NE
16	S102	N
17	TP306	N
18	S101	N
19	TP306	E
20	TP301	N
21	TP311	SSE
22	TP309	S
23	TP309	S
24	S103	SW
25	TP308	SSW
26	TP308	SSW
27	TP307	SSE
28	General site views	S
29	General site views	S
30	General site views	S
31	TP303	SSE
32	TP303	SSE
33	TP302	W
34	TP302	W
35	General Site view inc TP302	NW
36	TP324 INC [005]	SW
37	TP324 INC [005]	NW
38	TP304	NE
39	TP305	SSE
40	TP325	ENE
41	TP326	ENE
42	TP337	ENE
43	TP336	NE
44	TP336	NE
45	TP336 Working Shot	NNE
46	TP333 General view	NE
47-48	General views of Brunstane House	NE
49	TP332	NE
50	S113	E
51	TP331	SE
52	TP330	SSE
53	TP328	ESE
54	S120	SE
55	S120	SE

Shot No.	Summary description of subject	Taken from
56	TP329	SW
57	TP328	ESE
58	S119	E
59	S119	E
60	TP339	SSE
61	TP323	S
62	TP323a	S
63	S117	S
64	S117	SE
65	TP321	S
66	TP322	SWW
67	TP322	SWW
68	S118	SWW
69	S118	S
70	TP320	E
71	TP320	S
72	TP319	S
73	TP319	W
74	TP319	N
75	S124	N
75	S124	S
76	TP313	SSE
77	TP313	N
78	TP316	ENE
79	TP320 Soakaway	E
80	TP321 Soakaway	N
81	TP 320 Hand Pit	N
82	M228	S
83	M229	E
84	M224	NW
85	M224	NW
86	M233	SE
87	M233	SE
88	M233	SW
89	M202	SE
90	M204	NW
91	M219	W
92	M222	W
93	M222	W
94	M217	E
95	M211	E
96	M218	E
97	Shaft trench CH501-mine cap	W
98	Shaft trench SH501 overall shot	W
99	Shaft trench SH502 overall shot	W
100	Shaft trench SH503 overall shot	W
101	Brick work SH504	W
102	Brick work SH504	W
103	Mine shaft SH504	W
104	Overall shot SH504	W
105	M212	W
106	Overall shot of SH505	W
107	Mine cap SH505	W
108	Overall shot of SH515	W
109	Mine shaft SH515	W
110	Circular feature - brick	S
111	Shale feature	S

Shot No.	Summary description of subject	Taken from
112	Uncovered mine shaft SH515	W
113	SH506 shaft 022 exposed	E
114	SH506 shaft 022 exposed	E
115	SH506 S side in section	S
116	SH506 S side in section	E
117	SH506 trench	S
118	SH506 topsoil and subsoil section	E
119	SH507 clearing showing furrow appearing	ESE
120	SH507 showing furrow 026 cutting mining feature 024	ESE
121	SH507 clearing showing furrow base	SSE
122	SH507 excavated to c.2m	E
123	SH507 fully excavated with sondage in base	E
124	SH508 topsoil and subsoil removed	SE
125	SH508 topsoil and subsoil removed	N
126-128	SH508 fully excavated to 2.5m	E
129-130	SH508 fully excavated to 2.5m	E
131	SH509 topsoil and subsoil removed	N
132-134	SH509 topsoil and subsoil removed	N
135	SH509 soil section	N
136	SH509 fully excavated to 2.5m	NE
137	SH509 fully excavated to 2.5m	ESE
138	SH509 fully excavated to 2.5m	N
139	SH510 topsoil and subsoil removed	NE
140	SH510 topsoil and subsoil removed	E
141	SH510 fully excavated to 2.5m	W
142	TP315 excavated to natural	NE
143	TP315 excavated to natural	NE
144	TP314 excavated to natural	NE
145	S102 excavated	N
146	TP306 excavated to natural	N
147	S101 excavated	N
148	TP306 showing soil profile	E
149	TP301 excavated to natural	N
150	Location of BH210	SE
151	Area stripped for BH210	SE
152	SH512 (038) excavated to 0.6m	ENE
153	SH512 (038) excavated to c.2m	ENE
154	SH513 excavated to natural	SE
155	SH513 excavated to 2m depth	SE
156	SH514 general shot	NW
157	SH514 excavated to 2m depth	NW
158	Starter pit for BH203	Above

APPENDIX 3: Samples Register

Sample No.	Context No	Fill of	Sample type	Volume
10	035	34	Bones: cattle and equid C14	NA

APPENDIX 4: Finds Register

Context	Find type	No.	Wt (g)	Notes
035	Animal Bone	2	549	
027	Glass	4	332	Green bottle

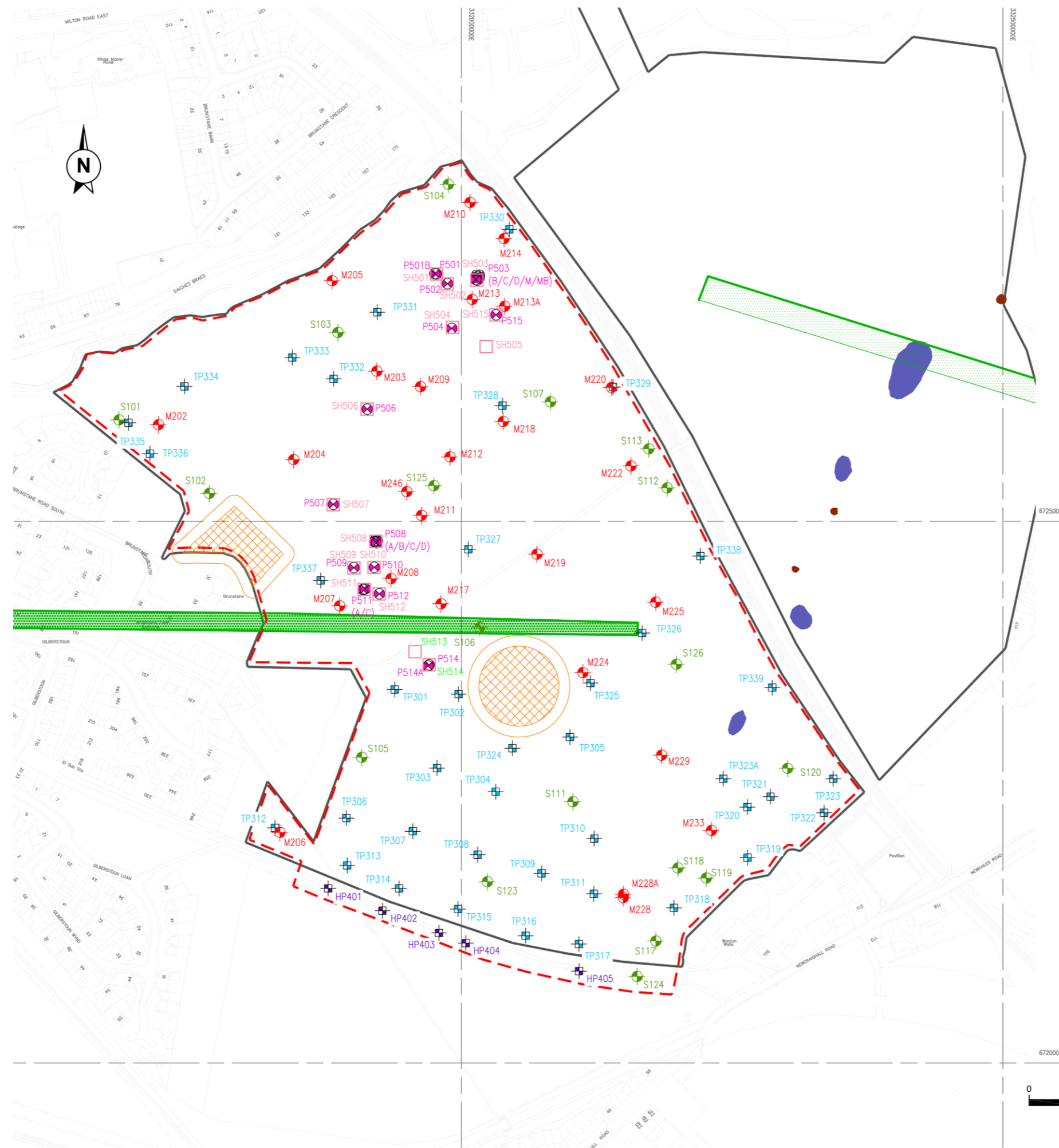
APPENDIX 5: Summary of Shaft Investigation Trenches

Investigation Area	Description
SH501	0.35m of topsoil. Circular mining feature (011) of 1.5m diameter with limestone/red brick cap exposed (010), surrounded by reddish-brown silty clay made ground (009) to >5m in all directions. Trench excavated to 4m deep.
SH502	0.35m of topsoil. Large circular mining feature exposed (012) measuring 5-6m diameter and continues beyond trench edges, cuts made ground (013) around the top of the shaft . Stone/shale fill. Trench excavated to 2m deep.
SH503	0.5m of topsoil. Two conjoined mining features exposed (014, 015), filled with black coal ash. 014 seen in section to be 2.5m wide by 2.2m deep; 015 continued below excavated trench depth and was 4m in diameter. Trench excavated to 3.2m deep.
SH504	0.35m topsoil. Oblong mining feature (016) exposed measuring 3x2m and filled with black coal ash, seen in section to taper with depth. Small brickwork feature (017) at edge of trench, not fully exposed, possible air vent. Trench excavated to 3m deep.
SH505	0.5m topsoil, 0.3m subsoil. Red brick capping measuring 1.8m in diameter (018). Unexcavated, seen to be >9.2m deep through void present.
SH506	0.35m topsoil, 0.4m subsoil. Mining feature (022) of 6.5m diameter at surface, reducing to 4-4.5m diameter at a depth of 3.5m. Trench excavated to 3.5m deep.
SH507	0.35m topsoil. Mining feature of 6m diameter exposed (024), which reduced in diameter to 1.5m at 3m deep – upper surface cut by a cultivation furrow (026). Trench excavated to 3m deep.
SH508	0.35m topsoil. Mining feature (028) exposed, 5.2m diameter. Trench excavated to 2.5m deep.
SH509	0.3m topsoil, 0.1m subsoil. Sub-circular mining feature (032) exposed measuring 6.5x6.2m. Concentric ring of re-deposited shale and soil runs around its edge. Trench excavated to 2.5m deep.
SH510	0.35m topsoil. Circular mining feature (034) exposed, measuring 4.8x5m. Animal bone recovered from fill (035) at a depth of 1.8m below ground level. Trench excavated to 2.5m deep.
SH511	0.45m topsoil. Circular mining feature exposed (036), 10m in diameter. Smaller possible shaft (037) measuring 1x1m adjacent to north side. Trench excavated to 2m deep.

Investigation Area	Description
SH512	0.4m topsoil. Circular mining feature exposed (038), measuring 8x7.3m. Trench excavated to 2m deep.
SH513	0.6m topsoil, 0.6m subsoil. No evidence for mining-related features. Trench excavated to 2m deep.
SH514	0.5m topsoil. Circular mining feature exposed (040), measuring 6.4x6m, with possible extension extending out of the trench to the NE. Trench excavated to 2m deep.
SH515	0.6m topsoil. Circular brick feature exposed (019) measuring 1.2m in diameter, possible air vent. Circular mining feature (020) with sandstone lining (021) measuring 1.4m in diameter, forming a ring of standing stonework when surrounding deposits were removed. Trench excavated to 2m deep.

APPENDIX 6: Discovery and Excavation in Scotland Entry

LOCAL AUTHORITY:	City Of Edinburgh
PROJECT TITLE/SITE NAME:	New Brunstane Masterplan
PROJECT CODE:	NEBR2
PARISH:	City of Edinburgh
NAME OF CONTRIBUTOR:	Ian Suddaby
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Watching Brief
NMRS NO(S):	NT37SW 238: Rectilinear Enclosure NT37SW 61: Collieries, Cropmarks, Field Boundaries, Rig & Furrow, Shaft NT37SW 60: Enclosure NT37SW 573: Enclosure, Rig & Furrow NT37SW 574: Shaft (possible)
SITE/MONUMENT TYPE(S):	Ditch, Mining related features
SIGNIFICANT FINDS:	None
NGR (2 letters, 6 figures)	NT 320 725
START DATE (this season)	July 2017
END DATE (this season)	October 2017
PREVIOUS WORK (incl. DES ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	A watching brief was carried out by CFA Archaeology Ltd during the excavation of test-pits, mining investigation trenches and other site investigation works at Brunstane Masterplan Area. In one test-pit, a robbed wall foundation trench was recorded, which appears to relate to the former walled garden. All but one of the mining investigation trenches revealed features, these ranged from mining test-pits to sealed shafts and possible air vents.
PROPOSED FUTURE WORK:	Unknown
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	IKM Consulting Ltd
ADDRESS OF MAIN CONTRIBUTOR:	CFA Archaeology Ltd, Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ.
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	Archive to be deposited with NRHE, reports lodged with SMR.



Key:

- Water Holes (Indicated S4838)
- Existing Sits (Indicated S4838)
- Whin Dyke
- Site Boundary
- Ground Investigation Boundary
- ⊕ As-dug Rotary (Mineral) Location
- ⊕ As-dug CP Location
- ⊕ As-dug Shaft Probe Location
- ⊕ As-dug Hand Pit Location (HP401-HP405)
- ⊕ As-dug Trial Pit Location (TP301-TP323)
- Hatched Area Denotes Ancient Monument Location with a 10m Buffer Perimeter
- As-dug Shaft Trial Pit Location

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Title:
Location of investigations

Project:
New Brunstane Masterplan - Site Investigation Works

Client:
IKM Consulting Ltd

Scale at A3:
1:4,000

Drawn by: SW	Checked by: MJ	Date: 15/05/18
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Report No: 3605	Fig. No: 1a
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Fig. 2 View NNE over the site from Newcraighall. The Niddrie Burn and Joppa are at the trees in the distance



Fig. 3 Test-pit 333 in the foreground with Brunstane House beyond

Project:
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Report No: 3605		Fig. No: 2 - 3



Fig. 4 Test-pit 324 with possible wall foundation trench

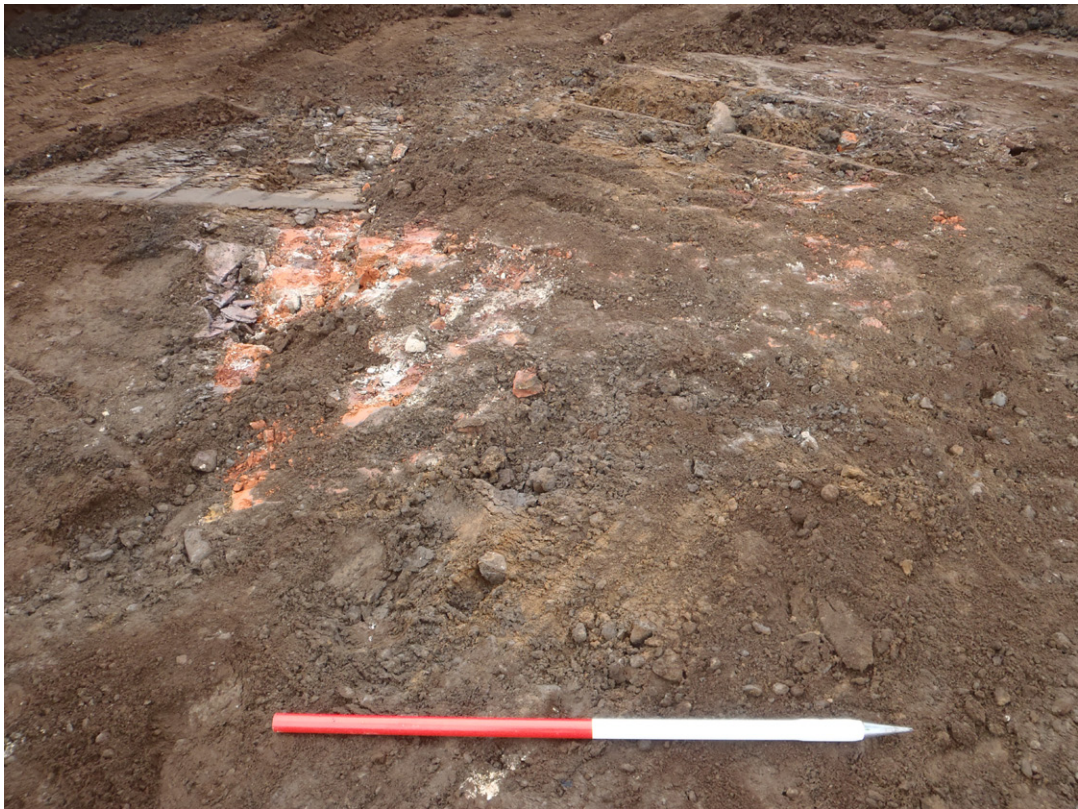


Fig. 5 Shaft Investigation Trench SH505 showing brick capping 018

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Fig. 6 Shaft Investigation Trench SH515 showing stone capping 021



Fig. 7 Shaft Investigation Trench SH507 showing the circular feature 024 cut by furrow 026

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Fig. 8 Shaft Investigation Trench SH509 showing circular feature 032

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