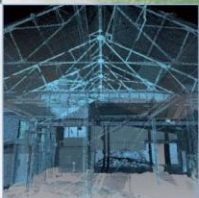
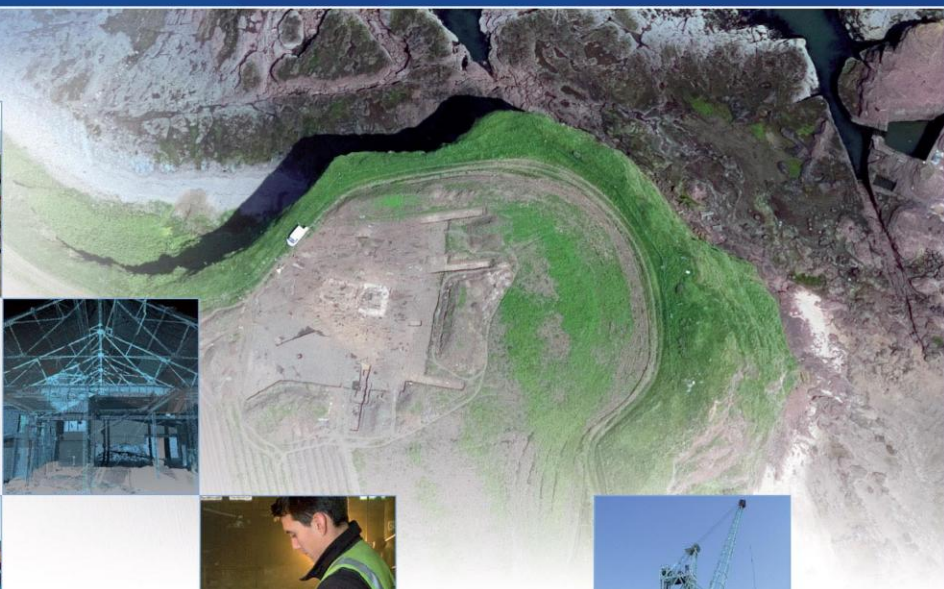


Cawburn Works, Broxburn: Watching Brief Data Structure Report

AOC Project 21995

Oasis ID aocarcha1-114738 (1)

Planning Application No. 0614/FUL/11



Cawburn Works, Broxburn: Watching Brief Data Structure Report

On Behalf of:	Forth Valley Engineering Ltd Cawburn Works, Drumshoreland, Broxburn, West Lothian, EH52 5PQ.
National Grid Reference (NGR):	NT 076120 70592
AOC Project No:	21995
Prepared by:	Erlend Hindmarch
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Date of Fieldwork:	14 th – 17 th November 2011
Date of Report:	30 th November 2011

This document has been prepared in accordance with AOC standard operating procedures.

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Date: 30th November 2011

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Date: 30th November 2011

Draft/Final Report Stage: Draft

Date: 30th November 2011

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Abstract

This report presents the results of an archaeological watching brief undertaken by AOC Archaeology Group during ground breaking works for a new temporary office suite at the Cawburn Works, Broxburn.

The work consisted of the excavation of 27 small foundation pits (0.8 m by 0.8 m) to natural subsoil or foundation level.

The majority of pits demonstrated that the underlying soil profile comprised modern made ground overlying natural subsoil, although in a few pits modern concrete slab was encountered. Neither significant archaeological features nor artefacts were identified.

1 INTRODUCTION

1.1 Background

- 1.1.1 AOC Archaeology Group was commissioned by Forth Valley Engineering to undertake an archaeological watching brief during the excavation of foundation pits for a temporary office suite at their Cawburn Works, Broxburn (Figure 1).
- 1.1.2 The proposed development (Planning Application No. 0614/FUL/11) lies within the administrative area of West Lothian Council, which is advised on archaeological matters by the West of Scotland Archaeology Service (WoSAS). WoSAS recommended a watching brief during the ground works in accordance. This work is in accord with *Scottish Planning Policy* (Scottish Government 2010) and *PAN 2/2011 Planning & Archaeology* (Scottish Government 2011) to safeguard the archaeological resource from any adverse physical impacts from the associated construction activities.
- 1.1.3 A *Written Scheme of Investigation* (AOC 2011) was agreed with WoSAS in advance of the work being undertaken.

1.2 Location

- 1.2.1 The development site is centred at NGR: NT 07620 70592 (Figure 1) at the western end of the Cawburn works within an area of tarmaced car parking. It is bounded to the north by the main Edinburgh to Glasgow railway line and to the north-east of the village of Drumshoreland.

1.3 Archaeological background

- 1.3.1 The development site lies within the former Cawburn Chemical Works, a Victorian industrial complex. There are no other known sites within the development. However the location of the temporary building is approximately 15 m north-east of the mapped location of a former earthwork (NMRS: NT07SE8). The earliest references to the earthwork (WoSASPIN 18190) come from the late 18th century where they are described as remains of "ancient entrenchments of Roman construction" though by the 20th century the remains were described as a circular earthwork without entrance some 110 ft in diameter with a bank some 20 ft wide. Whilst the age and function of the earthwork are unclear, there still existed the possibility that features associated with this earthwork may have survived within the development area.

2. OBJECTIVES

- 2.1 The objectives of the archaeological watching brief were:
 - i) to safeguard the archaeological resource that may be disturbed by the proposed development works;
 - ii) to liaise with WoSAS and the client in the event of significant archaeological features and/or small finds being unearthed as to the most appropriate response in safeguarding these features either by preservation *in situ*, if at all feasible or by archaeological recording.

3 METHODOLOGY

- 3.1 A total of 27 small foundation pits were excavated (Figure 2). The pits were excavated using a still saw to cut the overlying tarmac and subsequently a small tracked mini digger fitted with a toothless ditching bucket. All excavation was monitored by an archaeologist. Removal of soil was carried out in shallow spits until the required depth was reached.

4 RESULTS

- 4.1 The watching brief was undertaken between the 14th and 17th November 2011. The weather conditions were good and good archaeological visibility was present throughout the works.
- 4.2 The various data gathered from the watching brief is presented as a series of appendices;
- i) Appendix 1 contains the foundation pit descriptions
 - ii) Appendix 2 contains the photographic register
 - iii) Appendix 3 reproduces the *Discovery and Excavation in Scotland*
- 4.3 The foundation pits measured a standard 0.8 m by 0.8 m and the majority were excavated through tarmac and modern madeground comprising; a layer of type one hardcore, which overlay a layer of red blaze which in turn overlaid a compact brown silt with frequent inclusions of cinders, coal and building debris. Occasional fragments of 19th/20th century ceramics were noted within this deposit but not retained. The madeground overlay natural subsoil which comprised mid brown stony clay. The madeground varied between 0.27 m and 0.8 m in depth (Appendix 1).
- 4.4 A concrete slab foundation was identified in Foundation Pits B1, E1, E2, F1, G2, G3, H2 and I1, and represents the remnants an earlier building.

5 CONCLUSION

- 5.1 Neither significant archaeological features nor artefacts were identified during the watching brief.

6 RECOMMENDATIONS

- 6.1 No further archaeological works are considered necessary. This recommendation will require confirmation by WoSAS on behalf of West Lothian Council.

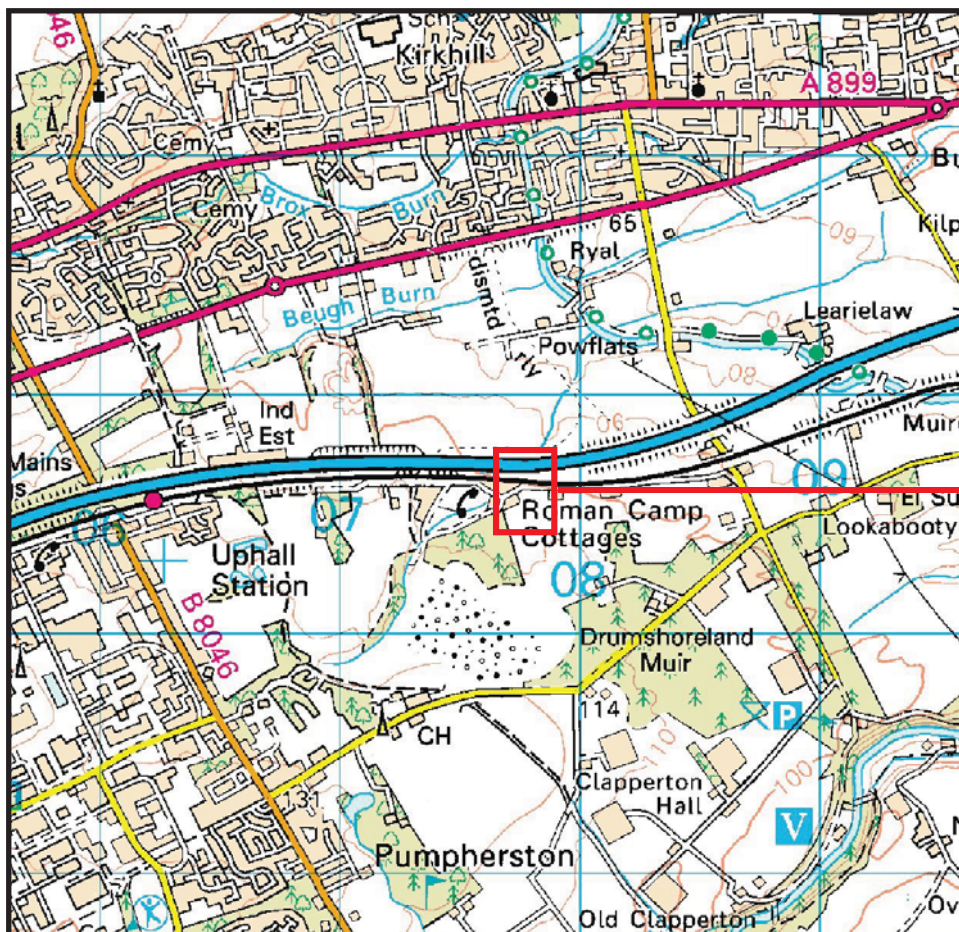
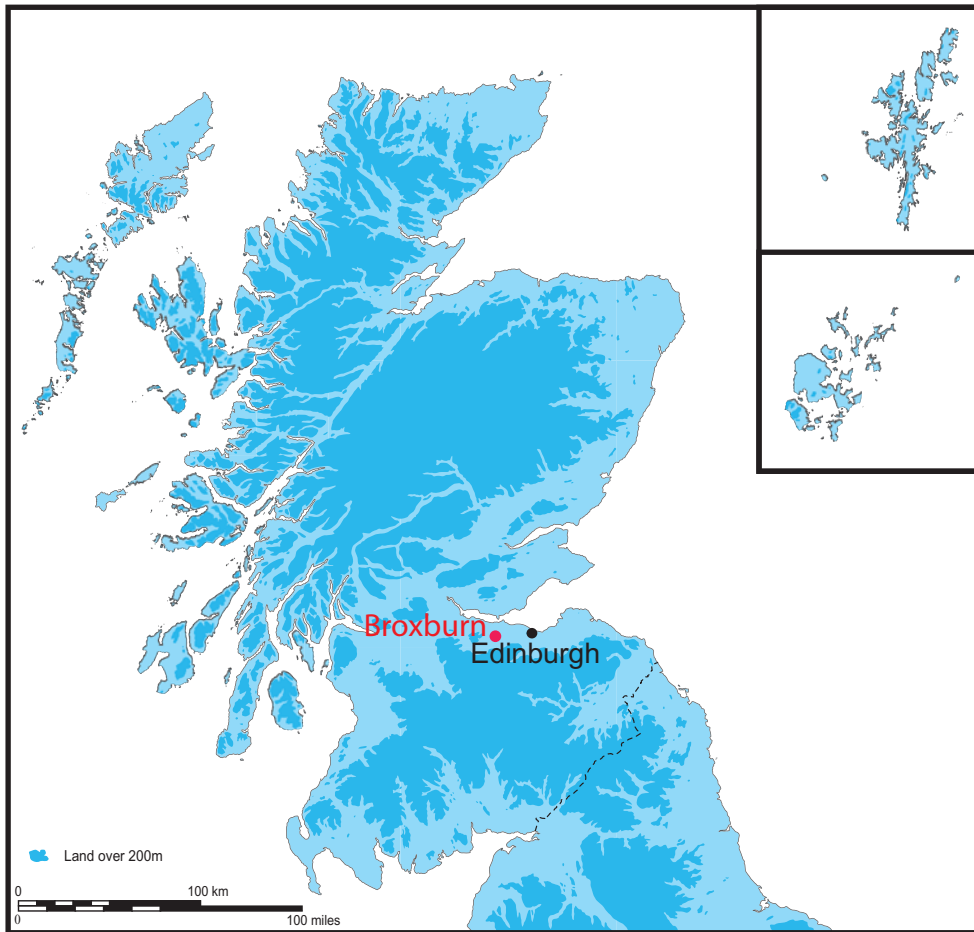
7 BIBLIOGRAPHY

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Unpubl AOC Archaeology Project Design.

Scottish Government 2010 *Scottish Planning Policy* (February 2010)

Scottish Government 2011 *PAN 2/2011 Planning & Archaeology*

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Figure 1: Location of the site at Cawburn Works, Broxburn

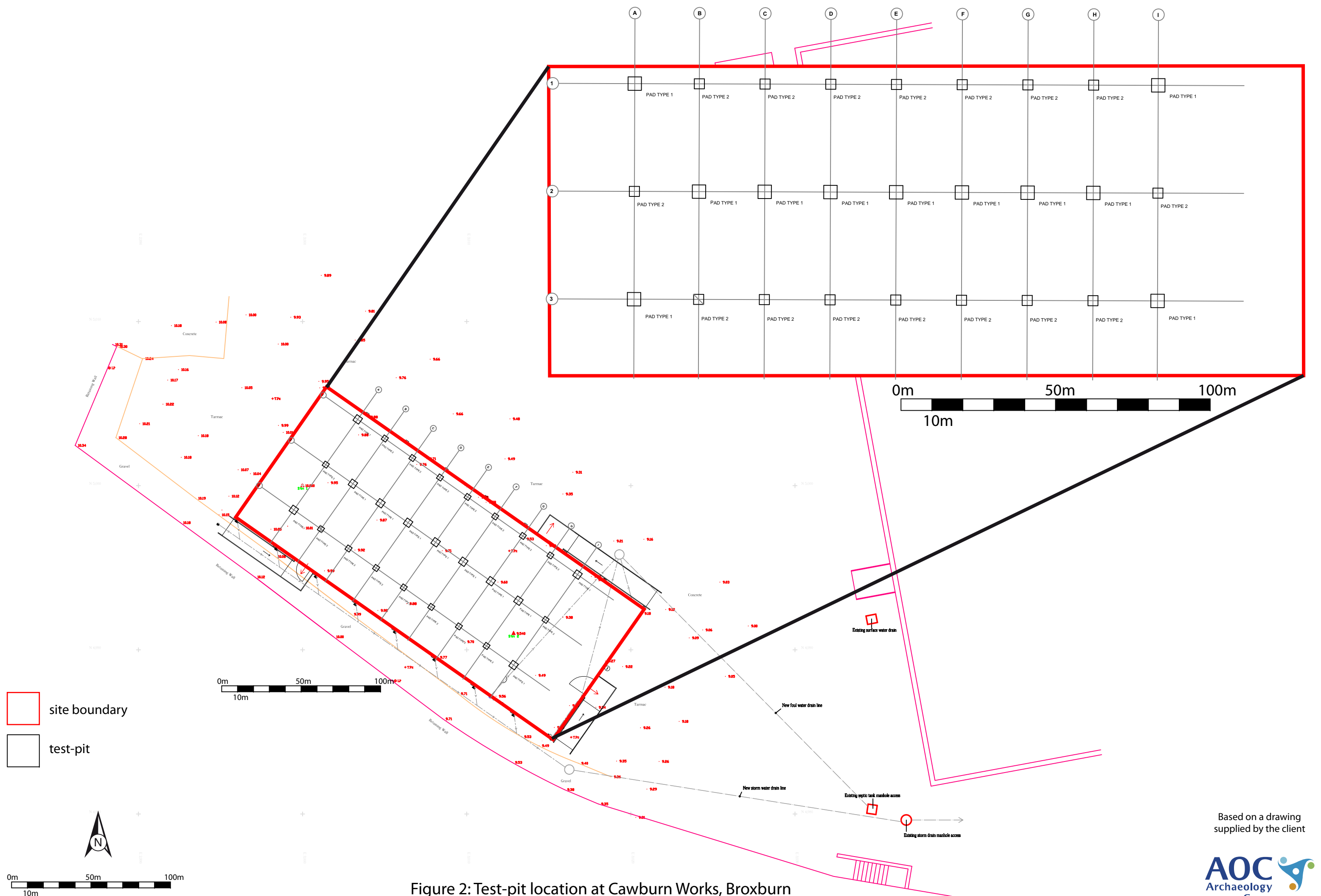


Figure 2: Test-pit location at Cawburn Works, Broxburn

Based on a drawing
supplied by the client



Cawburn Works, Broxburn: Watching Brief Data Structure Report

Section 2: Appendices

APPENDIX 1: Foundation Pit Descriptions

Foundation Pit A1

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.77 m
<i>Depth of Excavation</i>	0.77 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Mid brown stoney clay
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit A2

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.63 m
<i>Depth of Excavation</i>	0.63 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Mid brown stoney clay
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit A3

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.8 m
<i>Depth of Excavation</i>	0.8 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Mid brown stoney clay
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit B1

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.27 m
<i>Depth of Excavation</i>	0.27 m
<i>Significant Features</i>	None
<i>Other Features</i>	Concrete slab
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit B2

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.61 m
<i>Depth of Excavation</i>	0.61 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit B3

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.35 m

<i>Depth of Excavation</i>	0.8 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Mid brown stoney clay
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit C1

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.71 m
<i>Depth of Excavation</i>	0.71 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Mid brown stoney clay
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit C2

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.72 m
<i>Depth of Excavation</i>	0.72 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit C3

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.78 m
<i>Depth of Excavation</i>	0.78 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit D1

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.68 m
<i>Depth of Excavation</i>	0.68 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Mid brown stoney clay
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit D2

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.72 m
<i>Depth of Excavation</i>	0.72 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit D3

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.75 m
<i>Depth of Excavation</i>	0.75 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit E1

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.42 m
<i>Depth of Excavation</i>	0.42 m
<i>Significant Features</i>	None
<i>Other Features</i>	Concrete slab
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit E2

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.45 m
<i>Depth of Excavation</i>	0.45 m
<i>Significant Features</i>	None
<i>Other Features</i>	Concrete slab
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit E3

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.74 m
<i>Depth of Excavation</i>	0.74 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit F1

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.42 m
<i>Depth of Excavation</i>	0.42 m
<i>Significant Features</i>	None
<i>Other Features</i>	Concrete slab
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit F2

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.44 m
<i>Depth of Excavation</i>	0.44 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Not encountered

Finds Occasional fragments of 19th/20th century white ceramic (not recovered)

Foundation Pit F3

Dimensions 0.8 m by 0.8 m
Depth of Made Ground 0.23 m
Depth of Excavation 0.23 m
Significant Features None
Other Features Modern foundations
Subsoil Mid brown stoney clay
Finds Occasional fragments of 19th/20th century white ceramic (not recovered)

Foundation Pit G1

Dimensions 0.8 m by 0.8 m
Depth of Made Ground 0.64 m
Depth of Excavation 0.64 m
Significant Features None
Other Features None
Subsoil Mid brown stoney clay
Finds Occasional fragments of 19th/20th century white ceramic (not recovered)

Foundation Pit G2

Dimensions 0.8 m by 0.8 m
Depth of Made Ground 0.32 m
Depth of Excavation 0.32 m
Significant Features None
Other Features Concrete slab
Subsoil Not encountered
Finds Occasional fragments of 19th/20th century white ceramic (not recovered)

Foundation Pit G3

Dimensions 0.8 m by 0.8 m
Depth of Made Ground 0.48 m
Depth of Excavation 0.48 m
Significant Features None
Other Features Concrete slab
Subsoil Mid brown stoney clay
Finds Occasional fragments of 19th/20th century white ceramic (not recovered)

Foundation Pit H1

Dimensions 0.8 m by 0.8 m
Depth of Made Ground 0.29 m
Depth of Excavation 0.29 m
Significant Features None
Other Features None
Subsoil Mid brown stoney clay
Finds Occasional fragments of 19th/20th century white ceramic (not recovered)

Foundation Pit H2

Dimensions 0.8 m by 0.8 m
Depth of Made Ground 0.28 m
Depth of Excavation 0.28 m

<i>Significant Features</i>	None
<i>Other Features</i>	Concrete slab
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit H3

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.62 m
<i>Depth of Excavation</i>	0.62 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit I1

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.52 m
<i>Depth of Excavation</i>	0.52 m
<i>Significant Features</i>	None
<i>Other Features</i>	Concrete slab
<i>Subsoil</i>	not encountered
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit I2

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.75 m
<i>Depth of Excavation</i>	0.75 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Mid brown stoney clay
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

Foundation Pit I3

<i>Dimensions</i>	0.8 m by 0.8 m
<i>Depth of Made Ground</i>	0.7 m
<i>Depth of Excavation</i>	0.7 m
<i>Significant Features</i>	None
<i>Other Features</i>	None
<i>Subsoil</i>	Mid brown stoney clay
<i>Finds</i>	Occasional fragments of 19 th /20 th century white ceramic (not recovered)

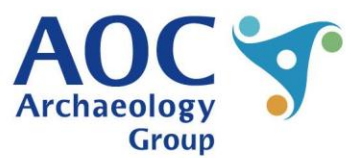
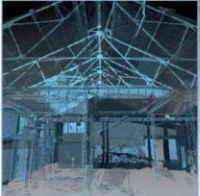
APPENDIX 2: Photographic Record

Black & White Print/ /Digital Film 1

Frame	Pit	Description	From
1-2	N/A	Registration	
3-4	N/A	General pre-ex shot of site	SE
5	A3	Post-excavation shot of pit	SE
6	D3	Post-excavation shot of pit	SE
7	G3	Post-excavation shot of pit	SE
8	C2	Post-excavation shot of pit	SE
9	H2	Post-excavation shot of pit	SE
10	A1	Post-excavation shot of pit	SE
11-12	F1	Post-excavation shot of pit	SE
13	H1	Post-excavation shot of pit	SE
14	N/A	General shot of whole site, post-excavation	

APPENDIX 3: *Discovery and Excavation in Scotland* Report

LOCAL AUTHORITY:	West Lothian Council
PROJECT TITLE/SITE NAME	Cawburn Works, Broxburn
PROJECT CODE:	AOC 21995
PARISH:	Uphall
NAME OF CONTRIBUTOR:	Erlend Hindmarch
NAME OF ORGANISATION:	AOC Archaeology Group
TYPE(S) OF PROJECT:	Archaeological Watching Brief
NMRS NO(S)	None
SITE/MONUMENT TYPE(S):	None
SIGNIFICANT FINDS:	None
NGR (2 letters, 6 figures)	NT 076120 70592
START DATE (this season)	14 th November 2011
END DATE (this season)	17 th November 2011
PREVIOUS WORK (incl. DES ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	<p>An archaeological watching brief monitored the excavation of 27 foundation pits during works associated with the construction of a temporary building, at the Cawburn Works, Broxburn. The work was required due to the proximity of an earthwork (NMRS: NT07SE8).</p> <p>Neither significant archaeological features nor artefacts were identified.</p>
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	Forth Valley Engineering
ADDRESS OF MAIN CONTRIBUTOR:	Edgefield Road Industrial Estate, Loanhead, Midlothian, EH20 9SY
EMAIL ADDRESS:	admin@aocarchaeology.com
ARCHIVE LOCATION (intended/deposited)	Archive to be deposited in NMRS



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