

CFA ARCHAEOLOGY LTD

November 2008

Commissioned by ERM on behalf of Scottish Water

OASIS number: cfaarcha1-47660

This document has been prepared in accordance with CFA Archaeology Ltd standard operating procedures.

Author:	Date
Approved by:	Date
Draft/Final Report Stage:	FINAL

Author: Helena Gray MA

Illustrations: Craig Evenden BSc MSc

Editor: Bruce Glendinning BSc PgDip MIFA

CFA ARCHAEOLOGY LTD

The Old Engine House
Eskmills Business Park
Musselburgh EH21 7PQ

Tel: 0131 273 4380

Fax: 0131 273 4381

E-mail: cfa@cfa-archaeology.co.uk

**Glencorse Water Treatment Works,
Glencorse Mains, Penicuik, Midlothian**

Archaeological Watching Brief

Report No. 1578

CONTENTS

1.	Introduction	3
2.	Working Methods	4
3.	Archaeological Results	4
4.	Conclusions	5
5.	References	5

Appendices

1.	Context Register	6
2.	Digital Photographic Register	6
3.	Drawing Register	6
4.	Discovery and Excavation in Scotland Entry	7

Illustrations (bound at rear)

Fig. 1 Site location map showing watching brief area and location of evaluation trenches

Fig. 2 General shot of site from SSE

Fig. 3 General shot of site from SW

Fig. 4 SE facing section of field boundary ditch **008**

1. INTRODUCTION

1.1 General

- 1.1.1 This report presents the results of an archaeological watching brief undertaken by CFA Archaeology Ltd (CFA) in August 2008 within the proposed areas associated with the new Glencorse Water Treatment Works (WTW) at Glencorse Mains, Penicuik, Midlothian (centred on NGR NT 237 628, Fig 1). The work was commissioned by ERM on behalf of Scottish Water.
- 1.1.2 A Written Scheme of Investigation (WSI) was produced by CFA. The WSI was approved in advance by the Archaeology Officer for Midlothian Council.

1.2 Background

- 1.2.1 In response to the planning application for the construction of a Water Treatment Works (WTW) at Glencorse and an associated pipeline to Edinburgh (08/00135/FUL and 08/0137/FUL), the East Lothian Council Heritage Officer recommended a programme of archaeological work be carried out in advance of and during construction. An evaluation of the WTW area has been previously carried out (Kirby 2008), as has the area associated with two soil storage areas located to the north-east of the WTW (Suddaby 2008). The current phase of work covers the watching brief required within the WTW area (Fig 1).

1.3 Objectives

- 1.3.1 The aims of the project were:
- To establish the presence/absence, extent, condition, character, quality and date of any archaeological features or deposits within the proposed development area.

2. WORKING METHODS

2.1 General

- 2.1.1 CFA Archaeology Ltd follows the Institute for Archaeologists' (IfA) Code of Conduct, Standards and Guidance for Archaeological Watching Briefs.
- 2.1.2 The removal of soil deposits was carried out using a tracked 360° excavator equipped with a 2.5m wide smooth-bladed ditching bucket. The removal of all soil deposits was carried out under constant archaeological supervision. All further works required to fulfil the terms of the brief were carried out by hand.
- 2.1.3 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.

- 2.1.4 The stratification of all areas was recorded, whether or not significant archaeological deposits were identified.

3. ARCHAEOLOGICAL RESULTS

3.1 General

- 3.1.1 The area monitored (Fig. 1) consisted of a U-shaped topsoil strip of approximately 12,800m², located in the north-west corner of the development area and surrounding a shelter belt and fenced-off area protecting a possible Roman fortlet (NMRS No. NT26SW 33).
- 3.1.2 Topsoil (**001**) of 0.3-0.4m depth overlay a mid orange-pink silty clay natural subsoil (**002**), in which occasional plough-scores and stone-holes were noted. Several modern clay pipe field drains orientated east-west were also identified (Figs. 2-3).
- 3.1.3 Numbers in bold and parentheses refer to contexts, a full list of which is contained in Appendix 1.

3.2 Watching Brief

- 3.2.1 A linear ditch (**008**) (centred NT 23319 62601, Fig. 4) was revealed in the south-west part of the site, bordering the southern edge of the watching brief area. A section excavated through the ditch showed it to be 1.3m wide by 0.5m deep, with irregular sloping sides and a narrow, channel-like flat base. Deposits within **008** consisted of an upper fill (**003**), 0.18m deep, of homogeneous mid brown clayey silt; a 0.22m deep secondary fill (**004**) of dark orange-brown clayey silt, and a 0.1m deep basal fill (**005**) of wet greyish silt. **005** contained a broken piece of clay drain pipe (**006**). Both **005** and **006** were within a channel formed from broken pantiles (**007**).
- 3.2.2 Ditch **008** underlay the position of a removed modern wire-and-post field boundary. It also corresponded to the line of a linear ditch identified in Trenches 29 and 52 during the evaluation of the WTW area (Kirby 2008), running through Field 3, and as such probably represents the continuation of this feature. This was a field boundary ditch associated with the boundary of a plantation strip present on the 1854 Ordnance Survey First Edition 6" map (Kirby 2008).

4. CONCLUSIONS

- 4.1 An archaeological watching brief was carried out by CFA Archaeology Ltd within the development area for a Water Treatment Works. Removal of topsoil revealed a linear ditch containing broken drain pipe in its base. This feature is likely to be the continuation of a field boundary ditch identified during an evaluation of the development area and present on the 1st edition Ordnance Survey 6" map.
- 4.2 No other features of archaeological importance were identified during the watching brief.
- 4.3 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 Midlothian Council Sites and Monuments Record.
- 4.4 A summary statement of the results of this watching brief will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 4).

5. REFERENCES

- Kirby, M. 2008. *Glencorse Water Treatment Works, Glencorse Mains, Penicuik, Midlothian. Archaeological Evaluation*. Report No. 1437
- Suddaby, I. 2008. *Glencorse Water Treatment Works, Glencorse Mains, Penicuik, Midlothian. Archaeological Evaluation of Soil Storage Areas*. Data Structure Report No. 1529

APPENDIX 1: Context Register

Context No.	Context Type	Description
001	Topsoil	Loose mid brown clayey silt. <1% small sub-rounded stone inclusions and modern pottery and glass.
002	Natural Subsoil	Mid creamy orange-pink silty clay mottled with patches of yellow clay. 5-10% small-mid sub-angular stones.
003	Upper fill of 008	Compact mid brown clayey silt. 2% medium sub-angular stones
004	Secondary fill of 008	Dark orange brown clayey silt with orange flecks
005	Basal fill of 008	Mid grey silt
006	Drain pipe within 005	Clay pipe 0.1m diameter
007	Pantiles forming channel around 006	Broken sherds of pantile 0.15-0.2m long
008	Cut for field boundary ditch	Linear ditch with irregular sloping sides and narrow flat base. Aligned NW-SE, 1.3m wide by 0.5m deep.

APPENDIX 2: Digital Photographic Register

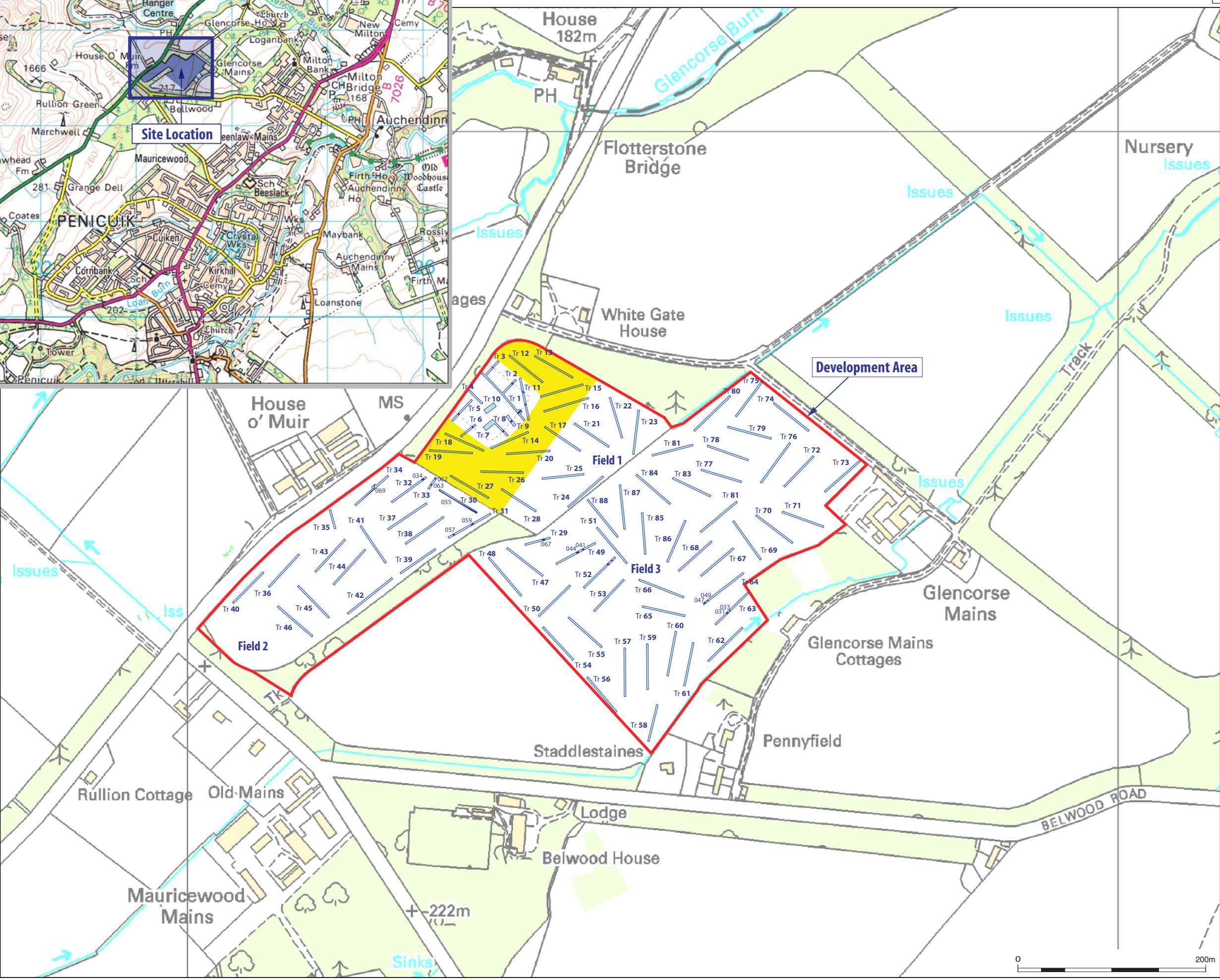
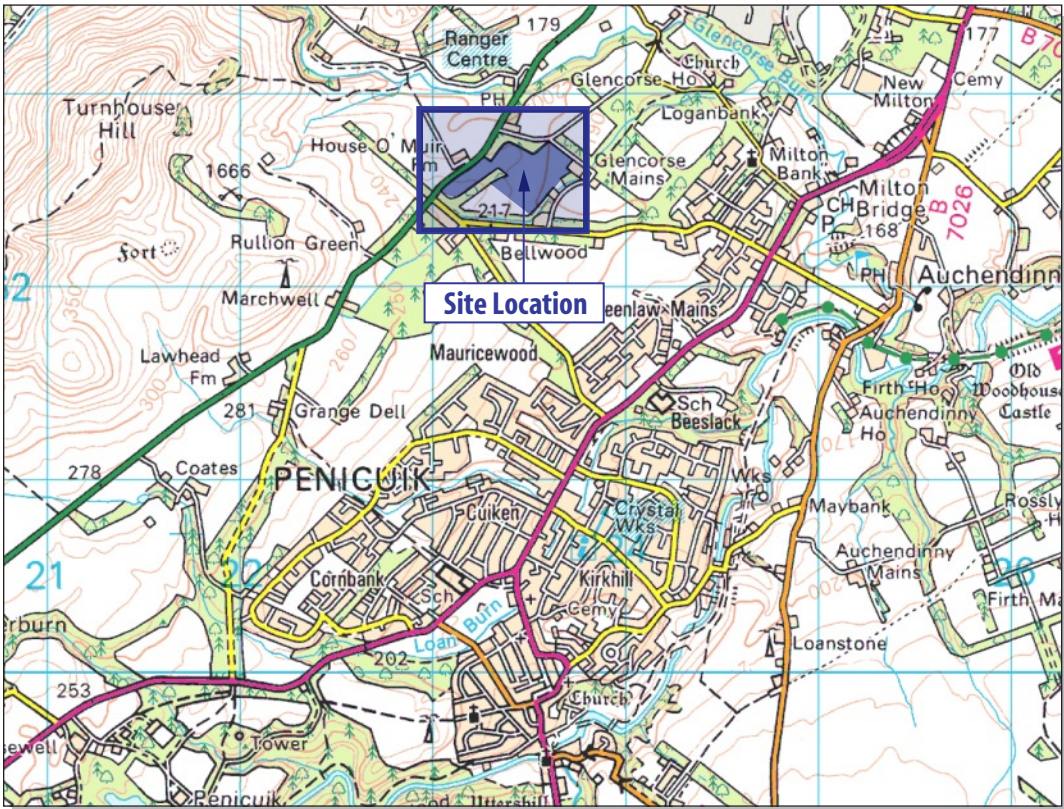
Shot	Description	Taken From	Conditions
1-3	Completed area topsoiled at end of 25/08/08	SE-E	O/C
4	Field drains showing in topsoiled area	SSE	O/C
5-7	Completed area topsoiled at end of 26/08/08	SE-E	O/C
8-9	General view of watching brief area	SW	O/C
10-14	Working shots	-	O/C
15-16	Views of evaluation trench backfilled with darker wetter soil	-	O/C
17-18	Watching brief area to N of power lines	SE	O/C
19-20	Field boundary ditch [008] at SW side of watching brief area	SE	O/C

APPENDIX 3: Drawings Register

Drawing No.	Description	Section / Plan	Scale
1	SE facing section of 008	S	1:10

APPENDIX 4: Discovery and Excavation in Scotland Entry

LOCAL AUTHORITY:	Midlothian
PROJECT TITLE/SITE NAME:	Glencorse Water Treatment Works, Glencorse Mains, Penicuik, Midlothian
PROJECT CODE:	EDWP
PARISH:	Glencorse
NAME OF CONTRIBUTOR:	Helena Gray
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Watching Brief
NMRS NO(S):	NT26SW 33
SITE/MONUMENT TYPE(S):	Possible Roman Fortlet
SIGNIFICANT FINDS:	None
NGR (2 letters, 8 or 10 figures)	NT 2347 6260
START DATE (this season)	25 th August 2008
END DATE (this season)	28 th August /2008
PREVIOUS WORK (incl. <i>DES</i> ref.)	CFA Evaluation, Kirby 2008; CFA Evaluation, Suddaby 2008
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	An archaeological watching brief was undertaken by CFA archaeology during topsoil stripping within the development area for a water treatment works at Glencorse Mains, Penicuik, Midlothian. Removal of topsoil deposits revealed a linear ditch containing broken drain pipe in its base. This feature is likely to be the continuation of a field boundary ditch identified during a previous CFA evaluation (Kirby 2008) of the development area, and present on the 1854 1 st edition Ordnance Survey 6" map. No other features of archaeological importance were identified during the watching brief.
PROPOSED FUTURE WORK:	Unknown
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	Commissioned by ERM on behalf of Scottish Water
ADDRESS OF MAIN CONTRIBUTOR:	Old Engine House, Eskmills Business Park, Musselburgh, EH21 7PQ
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	NMRS/Midlothian SMR



Key:
 Watching Brief Area



Fig. No: 1 Revision: A

Title:
Site location map showing
Watching Brief Area and location
of evaluation trenches.

Project:
Glencorse Water Treatment
Works, Glencorse Mains,
Penicuik.

Scale:
1:4000 @ A3

Client:
ERM on behalf of Scottish Water
Solutions

Drawn by: CAE Page No:



Fig. 2 - General shot of site from SSE



Fig. 3 - General shot of site from SW



Key:	Fig. No:	2 & 3	Revision:	A	Client:	ERM ON BEHALF OF SCOTTISH WATER SOLUTIONS	<div><div>CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk</div></div>
	Title:						
	Project:						
Scale:	Glencorse Water Treatment Works, Glencorse Mains, Penicuik					Drawn by:	CAE



Fig. 4 - SE facing section of field boundary ditch 008

Key:	Fig. No: 4	Revision: A	Client: ERM ON BEHALF OF SCOTTISH WATER SOLUTIONS	<div><div>CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk</div></div>
	Title:			
	Project: Glencorse Water Treatment Works, Glencorse Mains, Penicuik			
Scale:				Drawn by: CAE