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Pinkie Mains Electrical Cable Musselburgh

Archaeological Watching Brief

Report No. 3101

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**Pinkie Mains Electrical Cable
Musselburgh**

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Fig. 2 Section showing the road construction layers, modern deposits and deposit 006
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Fig. 4 Southeast-facing section of reception pit, Lewisvale Public Park

1. INTRODUCTION

1.1 General

This report presents the results of an archaeological watching brief undertaken by CFA Archaeology Ltd (CFA) in October-November 2013 during works for the electrical connection required for the ongoing housing development at Pinkie Mains, Musselburgh (Fig. 1). The works were undertaken as a permitted development by SSE but the end client Taylor Wimpey East Scotland Ltd agreed in consultation with the East Lothian Council Archaeology Service (ELCAS) that they would fund a watching brief on the excavation of the cable trench.

A Written Scheme of Investigation dated 23 August 2013 was prepared by CFA, and agreed with ELCAS.

ELCAS reviewed the plan of the route and identified areas of sensitivity that were to be specifically monitored (Fig1) these were:

- Along Inveresk Road and up Newbigging – previous watermain renewals along this route picked up midden deposits, cut features, walls and there was the potential for Roman remains particularly at the western end of Inveresk Road;
- The eastern end of the park – based upon previous work Roman remains were found towards the park side of the old hospital grounds and the cable route ran along the boundary of the old hospital grounds;
- At the extreme eastern end of the route the cable ran along the supposed boundary of the Napoleonic Military camp and there was a potential that a physical boundary to the camp (such as a ditch) could be present in the area.

Generally an intermittent watching brief was to be maintained on areas of open trench across the rest of the route.

1.2 Objectives

The objectives of the programme of archaeological works were:

- To conduct an appropriate programme of archaeological investigation (watching brief) to monitor groundbreaking to identify archaeological deposits or features.
- To mitigate the effects of construction on any archaeological deposits or features identified through excavation and recording and produce a report on them.

2. METHODOLOGY

2.1 General

Work will be conducted with regard to the Institute for Archaeologists' Standards, and to the standard conditions of ELCAS for fieldwork in its area.

2.2 Watching Brief

A watching brief was not conducted up Newbigging or at the extreme eastern end of the route as a breakdown in communication meant that work had already been carried out in these areas before an archaeologist was present on site.

A watching brief was carried out during all ground breaking works along Inveresk Road. The work through the sensitive part of Lewisvale Public Park was undertaken by directional drilling so there was no open cut trench to monitor, however, a reception pit for the directional drill was excavated towards the eastern end of Lewisvale Public Park and this was monitored (Fig. 4)

Excavation was undertaken with a tracked mechanical excavator with a smooth-bladed ditching bucket, except near and around services which were hand excavated, all under constant archaeological supervision. Archaeological deposits were investigated by hand

All discoveries, including soil profiles and subsoil characteristics, were recorded using standard CFA recording forms and digital photography.

3. ARCHAEOLOGICAL RESULTS

3.1 Inveresk Road

This section of the cable trench followed the line of Inveresk Road in the middle of the northern lane, and was interrupted all the way along by north-south and northwest-southeast orientated modern services. The current road surface (**001**) and its underlying construction layers (**002** and **003**) were present across the entire length of the trench and were c.0.35m deep.

Below the modern road construction deposits a firm mid greyish brown sand deposit (**006**) (Fig 2) was present. This varied in depth from 0.35m-0.75m. This in turn lay over the natural (**004**) which consisted of a moderately loose, sterile, mid orangey yellow sand.

A deposit of dark brownish grey coarse sand (**005**) with stone inclusions was present between 11m and 40m from the east end of the cable trench. This overlay **006** and was between 0.12m and 0.65m deep.

Between c.40 and c.250m from its eastern end the cable trench followed the line of a pre-existing cast iron water pipe trench (**007**) (Fig. 3). The width of the water pipe trench went beyond the limits of the width of the cable trench so no deposits other than trench backfill deposits (**008** and **009**) were identified.

3.2 Lewisvale Public Park

The reception pit (1m×2m) for the directional drill (Fig. 4) was located at the extreme western end of the watching brief area. Nothing of archaeological significance was identified.

4. CONCLUSION

A watching brief was conducted during groundbreaking works for the electrical connection required for the ongoing housing development at Pinkie Mains, Musselburgh along Inveresk Road and the eastern end of Lewisvale Park.

In the observed areas no deposits of archaeological significance were observed. The deposits identified below the modern road construction deposits are interpreted as agricultural soil deposits which had presumably not been removed during the construction of the road.

This report will be supplied to ELCAS. The project archive, comprising all CFA record sheets, plans and reports, will be deposited with the National Monuments Record of Scotland.

A summary statement of the results of this watching brief will be submitted for publication in *Discovery and Excavation in Scotland* and an online OASIS form will be completed.

APPENDIX 1: Photographic register

Shot No.	Summary description of subject	Taken from	Conditions	
1	East extent of cable trench at Inveresk Road before turning southeast down Newbigging.	NE	Rain	
2	North-facing section along cable trench (ranging rod at 11m from eastern extent)	NE	Rain	
3	North-facing section showing 005 cutting into the natural	N	Rain	
4	North-facing sample section	N	Rain	
5	South-facing section	14m section at 1m intervals, with additional c.0.5m overlap. In order of west-east, with final photo (PIMA_017) 11m from east extent.	Overcast	
6	South-facing section		S	Overcast
7	South-facing section		S	Overcast
8	South-facing section		S	Overcast
9	South-facing section		S	Overcast
10	South-facing section		S	Overcast
11	South-facing section		S	Overcast
12	South-facing section		S	Overcast
13	South-facing section		S	Overcast
14	South-facing section		S	Overcast
15	South-facing section		S	Overcast
16	South-facing section		S	Overcast
17	South-facing section	S	Overcast	
18	Eastern extent of cable trench along Inveresk Road	E	Overcast	
19	Line of cable trench from Mansfield Avenue, west.	E	Overcast	
20	Removal of cast iron water pipe from underneath services	NE/Oblique	Overcast	
21	Cast iron pipe left <i>in situ</i> .	WNW	Overcast	
22	Animal bone <i>in situ</i> within 006	-	Overcast	
23	North-facing sample section where animal bone was found, outside № 99 Inveresk Road.	N	Overcast	
24	1m cleaned section showing 007 cutting the natural	S/Oblique	Overcast	
25	North facing sample section between Mansfield Avenue and Dalrymple Loan	N	Overcast	
26	Cable trench from № 108 (at the point widening) towards Dalrymple Loan.	W	Overcast	
27	North-facing sample section outside № 93 Inveresk Road	N	Overcast	
28	General shot of excavation east of Dalrymple Loan/Inveresk Road Junction	E	Overcast	
29	General shot of excavation	SW	Overcast	
30	General shot of excavation at Inveresk Road, west of Dalrymple Loan/Inveresk Road Junction	W	Overcast	
31	General shot of excavation at Inveresk Road, west of Dalrymple Loan/Inveresk Road Junction	W	Overcast	
32	South-facing sample section at c. 150m from east extent	S	Overcast	
33	Excavation of cable trench west towards 250m mark (from east extent)	E	Overcast	
34	Excavation of cable trench west from 250m mark (from east extent)	E	Overcast	
35	North-facing sample section at c.270m from east extent	N	Overcast	
36	South-facing sample section at c.270m from east extent	S	Overcast	
37	North-facing sample section at c.272m from east extent	N	Overcast	
38	South-facing sample section at c.272m from east extent	S	Overcast	
39	Plan of cable trench cleaned down to natural at c.272m	-	Overcast	
40	General shot of cable trench at c.260m from east extent	E	Low Sun	
41	General shot of cable trench at c.270m from east extent	E	Low Sun	
42	General shot of cable trench at c.280m from east extent	E	Low Sun	
43	North-facing section of service/test trench	N	Low Sun	
44	South-facing section of service/test trench	S	Low Sun	
45	Plan of service/test trench	-	Low Sun	

46	Trial trench to test drainage trench in Lewisvale Park	E	Overcast
47	Location shot of trial trench	SE	Overcast
48	Pre-excavation shot of test pit for directional drilling	SW	Overcast
49	Southeast-facing section of reception pit	SE	Overcast
50	Northeast-facing section of reception pit	NE	Overcast

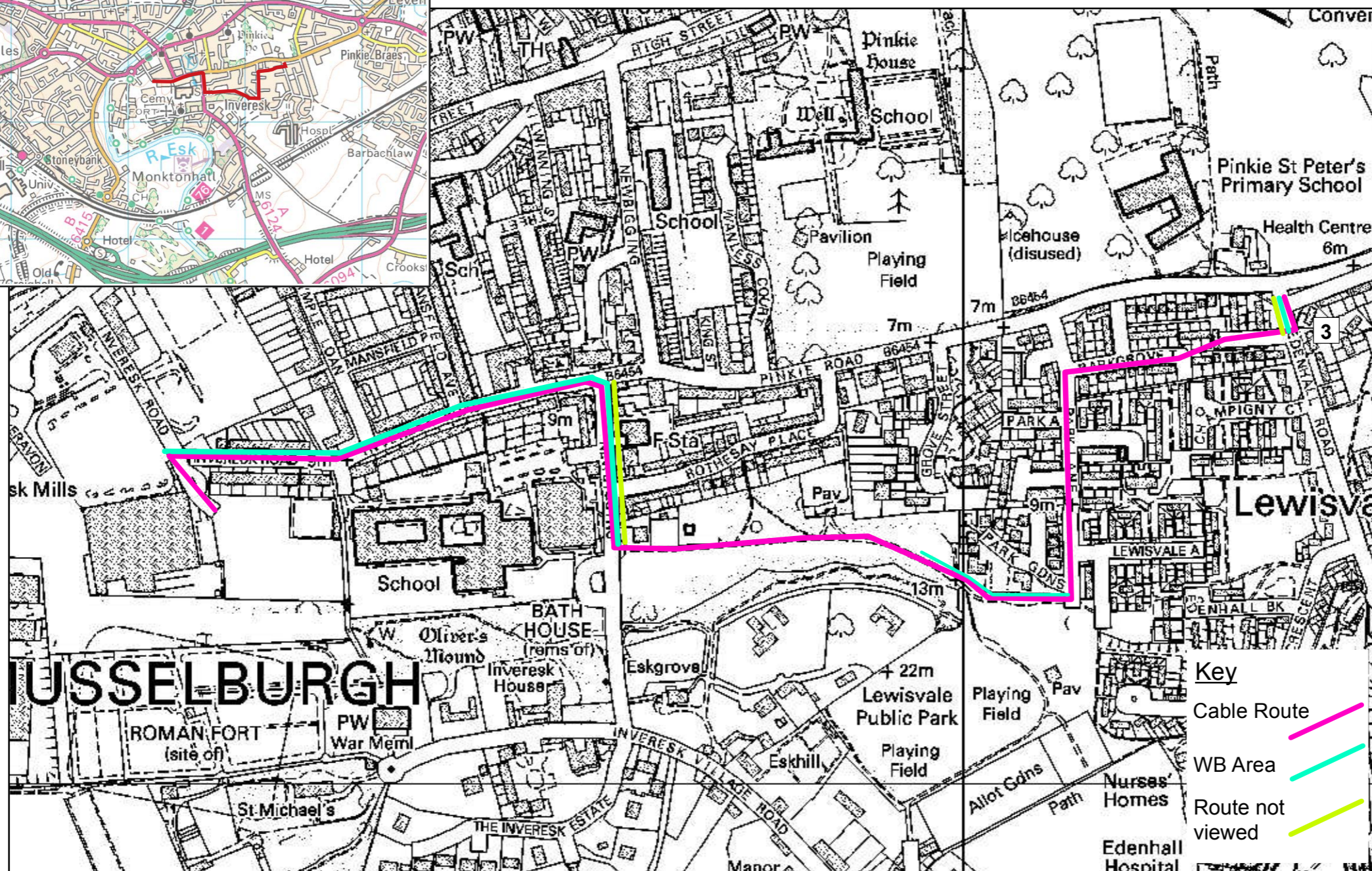
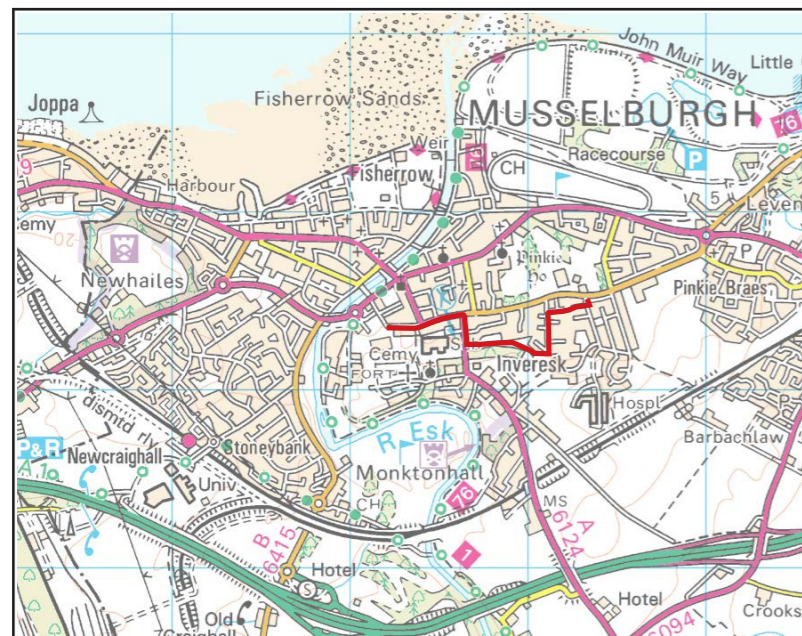
APPENDIX 2: Context Register

Context No	Fill of	Description
001		Current Road Surface: mid grey tarmac
002		Crude Road Surface: black tar fragments
003		Hardstanding: mid-light grey stone fragments
004		Natural: mid orange yellow sand
005		Deposit: very compact, dark brown grey, coarse sand with rare stone inclusions
006		Deposit: mid grey brown sand
007		Cut of Cast Iron Water Pipe
008	007	Upper Fill of Cast Iron Water Pipe: dark red brown gravelly silt
009	007	Lower Fill of Cast Iron Water Pipe: mid brown grey gravelly sand
010		Deposit: dark brown grey sandy clay loam
011		Deposit: mid red brown fine gravelly sand
012		Deposit: mid brown sand silt
013		Layer: concrete rubble

APPENDIX 3: Discovery and Excavation in Scotland Entry

LOCAL AUTHORITY:	East Lothian Council Archaeology Service
PROJECT TITLE/SITE NAME:	Pinkie Mains Electrical Cable, Inveresk Road and Lewisvale Public Park, Musselburgh
PROJECT CODE:	PIMA
PARISH:	Inveresk
NAME OF CONTRIBUTOR:	Rebecca Hunt
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Watching Brief
NMRS NO(S):	-
SITE/MONUMENT TYPE(S):	-
SIGNIFICANT FINDS:	-
NGR (2 letters, 10 figures)	NT 34209 72325 to NT 35315 72499
START DATE (this season)	27 th October 2013
END DATE (this season)	20 th November 2013
PREVIOUS WORK (incl. DES ref.)	N/A
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	A watching brief was conducted during groundbreaking works for the electrical connection required to service the ongoing housing development at Pinkie Mains, Musselburgh. The area monitored ran from Pinkie Mains, through Lewisvale Public park and along Inveresk Road. No deposits or features of archaeological significance were identified.
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	N/A
SPONSOR OR FUNDING BODY:	Taylor Wimpey East Scotland
ADDRESS OF MAIN CONTRIBUTOR:	The Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	National Monuments Record of Scotland (archive) East Lothian Council Archaeology Service (report)

Key



Key

- Cable Route —
- WB Area —
- Route not viewed —

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Fig. No:	1	Revision	A
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Title
Location of watching brief area along Pinkie Mains Cable route

Project
Pinkie Mains Electrical Cable, Inveresk Road and Lewisvale Public Park,

Scale at A3
1:5000

Client
Taylor Wimpey

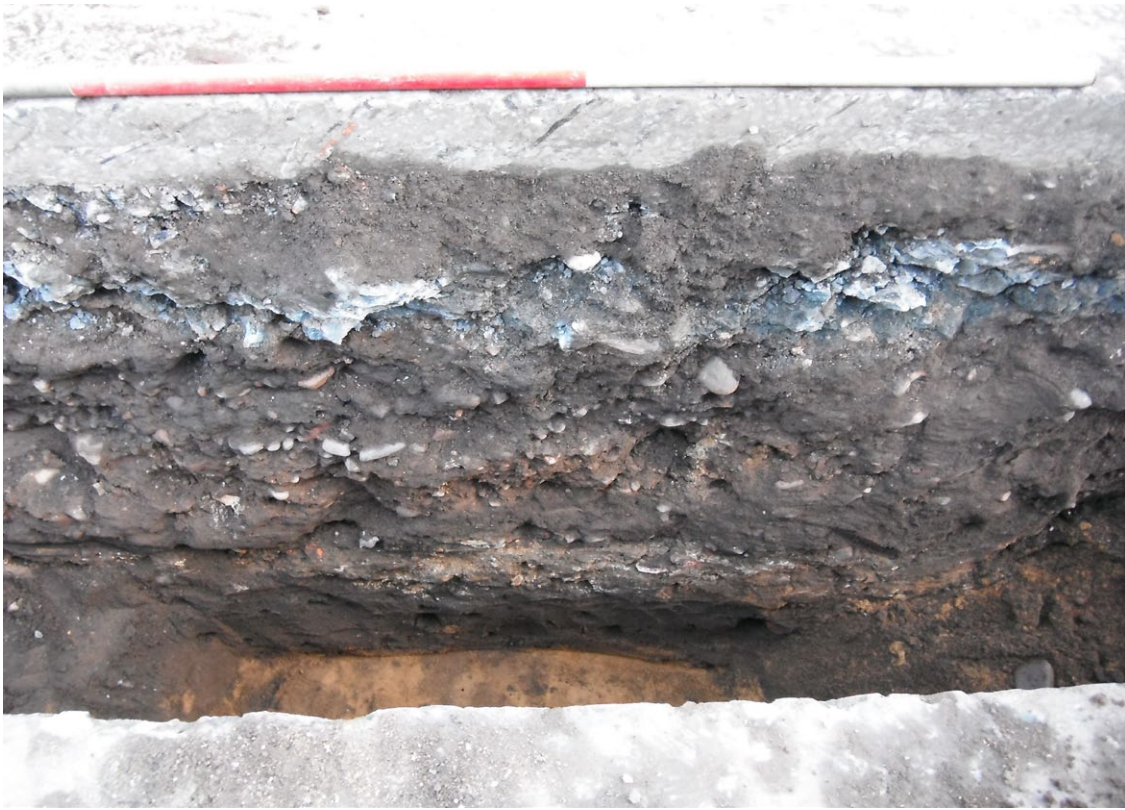




Fig. 2 - Section showing the road construction layers, modern deposits and deposit 006





Fig. 3 - Cast Iron water pipe left in situ

Fig. No: 2-3	Revision: A	Project: Pinkie Mains Electrical Cable, Inveresk Road and Lewisvale Public Park, Musselburgh			CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park, Musselburgh East Lothian, Eh21 7PQ
Drawn by: TB	Checked: RH	Report No: 3101			Client: Taylor Wimpey

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Fig. 4 - Southeast-facing section of reception pit, Lewisvale Public Park

Fig. No: 4	Revision: A	Project: Pinkie Mains Electrical Cable, Inveresk Road and Lewisvale Public Park, Musselburgh			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
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