

Site & Landscape Survey

Geophysical Survey

Suttieslea Road, Newtongrange, Midlothian. **Archaeological Desk-Based Assessment** and Evaluation.

> **Data Structure Report,** No. 1630







### CFA ARCHAEOLOGY LTD

The Old Engine House Eskmills Business Park Musselburgh East Lothian EH21 7PQ

Tel: 0131 273 4380 Fax: 0131 273 4381 email: info@cfa-archaeology.co.uk web: www.cfa-archaeology.co.uk

Author	Ian Suddaby MA FSA Scot MIfA
Illustrator	Leeanne Whitelaw BSc MAAI&S
Editor	Melanie Johnson MA PhD FSA Scot MIfA
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## **CONTENTS**

1.	Introduction	4
2.	Working Methods	5
3.	Archaeological Results	6
4.	Conclusions and Recommendations	11
5.	References	13
Appen	dices	
1.	Summary of Evaluation Trenches	14
2.	Context Register	15
3.	Photographic Register	17
4.	Field Drawings Register	19
5.	Discovery and Excavation in Scotland Entry	20
Illustra	ations (bound at rear)	
Fig. 1	Trench plan with an inset showing the site location	
Fig. 2	Extract from First Edition Ordnance Survey map 1854	
Fig. 3	Extract from Second Edition Ordnance Survey map 1898	
Fig. 4	Trench 2, ditch 203 section	
Fig. 5	Trench 4, ditch 403 section	
Fig. 6	Trench 8, ditch <b>801</b> section	
Fig. 7	Trenches 5 and 9 plans	
Fig. 8	Trench 9, ditch 901 section	
Fig. 9	Trench 9, airshaft <b>906</b> in the foreground with ditches containing coal and se fills beyond	oil
Fig. 10	Trench 9, ditch <b>908</b> section	

Fig. 11 Trench 9, ditch 904 section

- Fig. 12 Trench 9, ditch 913 section
- Fig. 13 Trench 17, section through furrow **1703** showing the primary fill of soil (**1704**) overlain by an upper fill of coal chips (**1705**)
- Fig. 14 Trench 21, made ground 2101 over subsoil 2103

#### 1. INTRODUCTION

#### 1.1 General

- 1.1.1 This report presents the results of an archaeological desk-based assessment and evaluation undertaken by CFA Archaeology Ltd (CFA) in May 2009 within the area of a proposed residential housing development at Suttieslea Road, Newtongrange, Midlothian (centred on NGR NT 3405 6465, Fig. 1). The work was commissioned by Cruden Homes (East) Ltd.
- 1.1.2 A Written Scheme of Investigation (WSI) was produced by CFA based in part upon information supplied by Cruden Homes (East) Ltd. The WSI was approved in advance by the Archaeology Officer for Midlothian Council.
- 1.1.3 No previous invasive archaeological fieldwork is known to have taken place within the proposed development area prior to this evaluation.

### 1.2 Objectives

- 1.2.1 The aims of the evaluation were:
  - To determine the presence or absence, location, extent, date, character, condition, significance and quality of any surviving archaeological remains liable to be threatened by the proposed development;
  - To identify if previously unknown archaeological remains such as those identified from cropmarks in the surrounding area are present within the development site;
  - To propose mitigation measures if any archaeological sites or deposits do survive.

#### 1.3 Weather Conditions

1.3.1 The weather throughout the evaluation was changeable.

#### 1.4 Acknowledgements

1.4.1 Many local residents provided information on the location and function of the mining remains in the area.

#### 2. WORKING METHODS

#### 2.1 General

2.1.1 Work was conducted with regard to the Institute for Archaeologists' (IfA) Standard and Guidance for an Archaeological Evaluation and Code of Conduct.

#### 2.2 Desk-Based Assessment

2.2.1 Historic map coverage for the area was examined together with other readily available cartographic information on pre-recent land use in the development area. The National Monuments Record of Scotland (NMRS), the Council Sites and Monuments Record (SMR) and bibliographic sources related to the area were consulted as appropriate.

### 2.3 Evaluation Strategy

- 2.3.1 The total site area is 43,900m<sup>2</sup>. Twenty-two trial trenches (Fig. 1) were opened which examined 2250m<sup>2</sup>, slightly over 5% of the total area.
- 2.3.2 Excavation constraints (services) consisted solely of a sewer alongside Suttieslea Road.
- 2.3.3 The trenches were excavated by machine under direct archaeological supervision to remove topsoil and modern deposits down to subsoil or the first significant archaeological horizon, whichever was reached first.
- 2.3.4 Samples of all features of archaeological interest were hand excavated in order to establish their likely date, nature, extent and condition.
- 2.3.5 All hand excavation and on-site recording was carried out according to standard CFA procedures, principally by drawing, by 35mm colour slide and digital photography and by completing standard CFA record forms.
- 2.3.6 Trench locations were surveyed using industry standard electronic surveying equipment and the trenches were backfilled daily on completion of recording.

#### 3. ARCHAEOLOGICAL RESULTS

#### 3.1 Desk-Based Assessment

National Monuments Record of Scotland (NMRS)

- 3.1.1 The NMRS holds no details of any archaeological sites within the proposed development area.
- 3.1.2 No Scheduled Ancient Monuments (SAMs) are in the immediate area. The closest of these are two enclosures at Gowkshill, 1.5km to the south (SAM Nos. 6336-7, NMRS Nos. NT36SW 26, NT36SW 32), one of which is associated with a pit alignment. There is also a fort at Campwood (SAM No. 1164, NT36SE 1), 2km to the south-east.
- 3.1.3 Bryans Farm (NT36SW 4) to the north of the development area was the location of a chapel. Numerous listed buildings are present within Newtongrange to the west of the development site.

Cartographic

- 3.1.4 Early maps, such as Blaeu (1654) and Adair (1682) do not show enough detail to be able to distinguish the proposed development site.
- 3.1.5 Roy's Military map (1747-55) clearly depicts the proposed development area as lying within parts of two fields. Rig-and-furrow cultivation is shown in the southern of these fields. This area is less clear on Laurie's 1766 map but the general area is fully under cultivation. Early 19<sup>th</sup> century maps such as Thomson (1832) do not show individual fields.
- 3.1.6 The Ordnance Survey 1<sup>st</sup> Edition Map (Midlothian Sheet 13, 1854) also shows the proposed development area as lying within parts of two fields, separated by a hedged boundary, and two 'Shafts' are shown in the southern field (Fig. 2). The land to the south west of the development site (including part of the site) is covered by the annotation "Newbattle Colliery". There are no surface traces of this apart from "Shafts" which are presumably air shafts and the annotation may relate to the location of underground workings.
- 3.1.7 The Ordnance Survey Second Edition (Edinburgh Sheet 32, 1898) shows the shafts and by this time the railway to the west of the proposed development area has been constructed (Fig. 3).
- 3.1.8 The Ordnance Survey Popular Edition (Edinburgh Sheet 74, 1926) does not show the shafts but the railway to the east of the proposed development area has also been constructed. The Ordnance Survey Seventh Series (Sheet 66, 1956-7) shows no changes from the Popular Edition.

#### *Photographic*

3.1.9 An image held on the Scran website (Scottish Mining Museum n.d.) shows the railway line from Easthouses Mine to Lady Victoria Colliery, and the high brick wall on the left in the image may well be the wall to the west of the site, known locally as the Liney Wall. These mineral lines remained in use at least until 1969 when Easthouses Colliery closed and their operations are remembered by many local residents.

#### 3.2 Evaluation - General

- 3.2.1 Appendix 1 contains a tabulated summary of trench dimensions and a list of the features encountered. Context numbers appear in bold, and a full description of these can be found in Appendix 2. Other site records form Appendices 3-4.
- 3.2.2 Known services consisted solely of a sewer close to Suttieslea Road.
- 3.2.3 The field containing the proposed development area is bounded on the east and west by disused and overgrown dismantled railway lines and to the north by Suttieslea Road. To the south an overgrown hedge marks the field boundary. The development site lies at around 110m OD and is undulating, with a slight westerly aspect and good views over Midlothian to the Pentland and Lammermuir Hills.
- 3.2.4 In general, the soil profile within the site consists of 0.3m of compact dark brown clay-silt topsoil (**001**) which in places overlies a shallow brownish-yellow or buff compact clay-silt subsoil (**002**) with a general depth of 0.15m. The undisturbed natural (**003**) is poorly drained and consists of a very compact sandy clay-silt with a variable stone content.

#### 3.3 Evaluation – Trenches

3.3.1 Twenty-two trenches (Fig. 1) were excavated within the development area which evaluated 2250m², slightly over 5% of the total area. Only trenches where features other than drains were recorded are described below. Details of the other trenches are contained in Appendix 1.

Trench 2

- 3.3.2 In Trench 2, a ditch (203) was recorded (Fig. 4) the cut of which was still faintly visible on the surface suggesting it to be of recent origin. This lay to the north-west of an airshaft (201) (see below). The ditch was 0.7m wide, 0.25m deep and had vertical sides with a flat base. No finds were recovered. Ditch 203 was aligned SSW NNE.
- 3.3.3 A circular feature with a diameter of 3-4m was recorded in Trench 2 (201). A sondage with a depth of 0.6m was excavated into the feature and showed that the sides were unlined and vertical. The feature was filled with a coal-flecked grey clay and stones (202). No finds were recovered. The general location of

the feature conforms to that of one of the 'Shafts' first shown on the Ordnance Survey map in 1854 (Fig. 2).

Trench 4

3.3.4 In Trench 4, N-S aligned ditch (**403**) was recorded (Fig. 5) the cut of which was still faintly visible on the surface suggesting it to be of recent origin. This ditch was 0.7m wide, 0.25m deep and had near vertical sides with a flat base. No finds were recovered.

Trench 5 (Fig. 7)

- 3.3.5 In Trench 5, a section of ditch (**501**) was recorded on a roughly E-W alignment. The ditch was V-profiled, had a width of 1.4m and a depth of 0.3m. It contained a significant coal content. The sequence of fills was a primary fill of coal chips and clay (**502**) and a secondary fill of coal-flecked orange-brown clay-silt (**503**). No finds were recovered.
- 3.3.6 A deposit of coal (**508**) within the trench had a width of 5m and a depth of 0.1m. It was cut by stone-filled field drains.

Trench 8

3.3.7 Trench 8 was located to investigate the field boundary identified in the desk-based assessment. A single ditch (**801**) was recorded at this location, aligned roughly NW-SE, with a width of 2.5m and surviving depth of 0.2m (Fig. 6). This contained a yellow-brown clay-silt (**802**). No finds were recovered.

Trench 9 (Fig. 7)

- 3.3.8 In Trench 9, a section of ditch (901) was recorded on a roughly E-W alignment in adjacent trenches and may be a continuation of the same feature as they were similar in size, profile and fills (Fig. 8). The ditch was V-profiled, had a width of 1.4m and a depth of 0.3m. The sequence of fills was a primary fill of coal chips and clay (902) and a secondary fill of coal-flecked orange-brown clay-silt (903), sealed by a buff subsoil (002). No finds were recovered. This ditch may be a continuation of ditch 501 in the adjacent Trench 5 as they were similar in size, profile and fills.
- 3.3.9 Also in Trench 9, and slightly to the south of ditch **901**, a shallow ditch (**904**) with an irregular plan and a V-profile was cut by a stone-filled field drain (Fig. 11). It measured up to 0.7m wide by 0.25m deep maximum.
- 3.3.10 A further ditch (908) was recorded in Trench 9 (Fig. 10). This ditch (908) had similar dimensions and profile to the ditches recorded in Trenches 2 (203) and 4 (403), with vertical sides and a flat base. It was aligned roughly N-S and appeared to lead into the airshaft (906, Fig. 3). It cut a deposit of coal (911) and some field drains. It was 0.7m wide by 0.15m deep.

- 3.3.11 At the southern end of Trench 9, a V-profiled linear ditch (913) was recorded, aligned roughly N-S, containing coal-based lower fills (914, 916) with an upper fill of re-deposited clean yellow clay (915) (Fig. 12). It was 1.1m wide by 0.25m deep. This ditch was sealed by the buff subsoil (002). No finds were recovered.
- 3.3.12 A circular feature with a diameter of 3-4m was recorded in Trench 9 (906) (Fig. 9). A sondage with a depth of 0.6m was excavated into the feature and showed that the sides were unlined and vertical. The feature was filled with a coal-flecked grey clay and stones (907). No finds were recovered. This feature was very similar to one (201) recorded in Trench 2. The general location of the feature conforms to that of one of the coal 'Shafts' first shown on the Ordnance Survey map in 1854 (Fig. 4).
- 3.3.13 A loose spread of cobbles (912) with a length of 8m and a width of over 1.5m was exposed near the southern end of Trench 9. This consisted of medium sized rounded cobbles pressed into the undisturbed natural (003). No finds were recovered. It continued beyond the trench edge to the west. Its date and function are unclear.
- 3.3.14 A deposit of coal (911) in Trench 9 had a width of 2.5m and a depth of 0.1m, and was cut by ditch 908. A small patch of mortar (910) abutted it to the north.

Trench 15

3.3.15 In Trench 15 a large cut feature (1501) was partially uncovered at the eastern end of the trench. Its full extent was not uncovered. Excavation revealed it to have vertical sides but rapid water ingress prevented further excavation of this feature below 2.5m. The upper fill (1502) was subsoil and the lower fill was filled with grey clay (1503) which contained occasional twigs. The vertical cut and the fills suggest that this is a fairly recent feature and may be the remains of another air shaft.

Trench 16

3.3.16 Made ground was recorded in Trench 16 and the extent of this was visible on the surface as a slight variation of slope angle associated with a vegetation change (Fig. 1). This made ground (1602) had a depth of up to 1m, and overlay subsoil (1601) which was 0.3m deep and sealed arch-profile clay pipe drains.

Trench 17

3.3.17 In Trench 17, a concentration of stones (1710) with a length of 5m and depth of 0.2m was recorded towards the northern end of the trench. These were distributed within a coal-flecked subsoil (002) and did not appear in the parallel Trench 18.

#### Trench 21

- 3.3.18 In Trench 21 made ground was recorded this may be the edge of the spread of made ground identified in Trench 16. It appeared that the made ground (2101) also filled a shallow cut (2105) (Fig. 14) at this point, however, the form and function of this cut was not identified, but it is not likely to be of any great antiquity as it cut subsoil and nineteenth century finds were present within the made ground and the subsoil.
- 3.3.19 A deposit of coal (2106) with a length of 2m and a depth of 0.1m overlay a subsoil (2103) and underlay made ground (2101).

#### 4. CONCLUSIONS AND RECOMMENDATIONS

- 4.1 The National Monuments Record of Scotland indicated that no known cultural heritage sites existed within the proposed development area at Suttieslea Road, Newtongrange. Cartographic evidence indicated that a rig-and-furrow field system, airshafts and a field boundary lay within the development area. All of these were located and recorded during the evaluation.
- 4.2 Twenty-two trial trenches were excavated. The main results of the evaluation include:
  - Linear furrows representing the truncated remains of rig-and-furrow agriculture were recorded in Trenches 1, 3, 4, 7, 13, 14, 17, 18 and 20. These were aligned mostly NW-SE. The profiles of the cuts were also fairly consistent, with gently sloping sides and flattish bases. Widths varied from less than 1m to more than 3m, with 1-2m being most common. Their truncated nature is indicated by substantial gaps between individual furrows, and the excavated sections showed a general depth of less than 0.1m although up to 0.3m was recorded, with the deeper furrows recorded in Trench 17. These furrows appeared to be the product of Narrow Straight Rig-and –furrow cultivation (Dixon 1994) of the late eighteenth and nineteenth centuries. The field boundary ditch in Trench 8 may be contemporary with these furrows.
  - A field drainage system (comprising either arched-profile clay pipes or stone-filled drains), in most cases aligned with the cultivation furrows and often inserted into the fills of the furrows. The Arched profile drains are likely to date to the first half of the 19<sup>th</sup> century (Douglas & Oglethorpe 1993).
  - Two airshafts (Trenches 2 and 9) depicted on the 1854 Ordnance Survey mapping which probably related to Newbattle Colliery. A large vertical sided cut in Trench 15 may be a third shaft. Features such as ditches (Trenches 5 & 9) and a possible cobbled surface in Trench 9 may be associated with the construction or use of the airshafts.
  - Spreads of poor quality coal / coal waste (Trenches 5, 9 & 17) and other made ground deposits (Trenches 16 & 21) have been identified. The coal deposits are likely to be waste from the colliery operations within the general vicinity of the site, or possibly from the excavation of the airshafts. The made ground may be related to the excavation of air shafts in this area or similar activities.
- 4.3 As a result of this desk-based assessment and evaluation CFA recommend that no further work in mitigation is required; however, the responsibility for deciding whether further work is required lies solely with the archaeological advisor to Midlothian Council, the East Lothian Council Archaeology Officer.
- 4.4 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 Midlothian Council.

4.5 A summary statement of the results of this evaluation will be submitted for publication in *Discovery and Excavation in Scotland 2009* (Draft as Appendix 5).

#### 5. REFERENCES

**Bibliographic** 

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Scottish Mining Museum (not dated) 'Surface transport from Easthouses Mine to Lady Victoria Colliery, Midlothian', Scran ID: 000-000-015-023-C Licensor www.scran.ac.uk

Cartographic

Adair, J 1682 Map of Midlothian

Blaeu, J & D. 1654. Lothian and Linlitquo. Amsterdam

Laurie, J. 1766. A plan of Edinburgh and places adjacent. Edinburgh

Ordnance Survey 1<sup>st</sup> Edition Map, 1854. Sheet 13, 6" to the mile.

Ordnance Survey 2<sup>nd</sup> Edition Map, 1898. Sheet 32, 1" to the mile.

Ordnance Survey Popular Edition, 1926. Sheet 74, 1" to the mile.

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Roy, W 1747-1755 Lowlands Map C.9.b 7/5f

Thomson, J 1832 Map of Scotland, Edinburghshire. Edinburgh

## **APPENDIX 1: SUMMARY OF EVALUATION TRENCHES**

Abbreviation: CPFD - Clay-pipe field drain

Trench	Length	Width	Depth of	Comments
No.	( <b>m</b> )	( <b>m</b> )	overburden (m)	
1	50	2	0.3	2 linear ditches, probable furrows
				3 arch profile CPFDs
2	50	2	0.3	1 probable mine shaft (201)
				1 linear ditch (203)
3	50	2	0.3	1 linear ditch, probable furrow (301)
				2 arch profile CPFDs
				2 stone-filled field drains
4	50	2	0.3	2 linear ditches, probable furrows (401, 405)
				1 linear ditch (403)
				5 arch profile CPFDs
				2 stone-filled field drains
5	50	2	0.3 / 0.4	1 linear ditch (501(=901))
				1 spread of coal (508)
				6 stone-filled field drains
6	50	2	0.3 / 0.25	Subsoil containing quantities of coal at W end of trench.
				Close to deposits in Trench 5
7	50	2	0.3 / 0.2	2 linear ditches, probable furrows (701, 703)
8	50	2	0.3 / 0.1	1 linear field boundary ditch (801)
				4 arch profile CPFDs
9	75	2	0.3 / 0.3	1 probable mine shaft (906) with associated ditch (908)
				1 linear ditch (901(=501))
				2 other ditches (904, 913)
				1 cobbled surface (912)
				1 spread of coal with adjacent spread of mortar (910, 911)
1.0			0.010.0	6 stone-filled field drains
10	50	2	0.3 / 0.2	3 stone-filled field drains
11	50	2	0.3 / 0.1	1 stone-filled field drain
12	50	2	0.3 / 0.1	-
13	50	2	0.3 / 0.2	4 linear ditches, probable furrows (1301, 1303, 1305, 1307)
14	50	2	0.3 / 0.2	2 linear ditches, probable furrows (1401, 1403)
1.	50	_	0.3 / 0.2	6 arch profile CPFDs
15	50	2	0.3 / 0.1	2 arch profile CPFDs
10		-	0.0 / 0.1	Deep cut feature (1501) at E end of trench.
16	50	2	0.3	Topsoil over 0.5m-1m made ground (1601) over subsoil
	• •	_		(1602) over arch profile CPFDs
17	75	2	0.3 / 0.3	5 linear ditches, probable furrows (1701, 1703, 1706,
			0.0 / 0.0	1708, 1711) one (1703) containing upper fill of coal chips
				4 arch profile CPFDs
18	25	2	0.3 / 0.1	2 linear ditches, probable furrows (1801, 1805)
				3 arch profile CPFDs
				1 modern test-pit (1803)
19	50	2	0.3 / 0.25	2 arch profile CPFDs
20	50	2	0.3 / 0.25	4 linear ditches, probable furrows (2001, 2003, 2005,
				2007)
				4 arch profile CPFDs
				1 other field drain
21	50	2	0.3 / 0.25	Made ground at SW end of trench
22	50	2	0.3	6 arch profile CPFDs
				1 stone-filled field drain

### **APPENDIX 2: CONTEXT REGISTER**

Context	Trench	Fill of	Type	Description
001	-	-	Topsoil	Dark-brown or black clay-silt topsoil
002	-	-	Soil under	Overall (site-wide) context for soil deposits
			topsoil	under topsoil
003	-	-	Natural	Varied undisturbed natural. Mostly sandy clay-
				silt & stones
101	1		Cut	Linear cut for probable furrow
102	1	101	Deposit	Orange-brown sandy clay-silt
103	1		Cut	Linear cut for probable furrow
104	1	103	Deposit	Orange-brown sandy clay-silt
201	2		Cut	Circular cut for probable airshaft
202	2	201	Deposit	Mixed clay/stones/soil backfill
203	2		Cut	Cut for linear ditch around airshaft (=403)
204	2	203	Deposit	Mixed redeposited subsoil/topsoil
301	3		Cut	Linear cut for probable furrow
302	3	301	Deposit	Orange-brown sandy clay-silt
401	4		Cut	Linear cut for probable furrow
402	4	401	Deposit	Orange-brown sandy clay-silt
403	4		Cut	Cut for linear ditch around airshaft (=203)
404	4	403	Deposit	Mixed redeposited subsoil/topsoil
405	4		Cut	Linear cut for probable furrow
406	4	405	Deposit	Orange-brown sandy clay-silt
501	5	100	Cut	Linear cut for ditch (=901)
502	5	501	Deposit	Coal chips & dross
503	5	501	Deposit	Coal flecked yellow-brown clay-silt
504	5	301	Cut	Probable shallow cut
505	5	504	Deposit	Mixed coal/clay/soil/stones
506	5	301	Cut	Linear cut for field drain
507	5	507	Deposit	Field clearance cobbles
508	5		Deposit	Coal deposit under 001
701	7		Cut	Linear cut for probable furrow
702	7	701	Deposit	Orange-brown sandy clay-silt
703	7	701	Cut	Linear cut for probable furrow
704	7	703	Deposit	Orange-brown sandy clay-silt
801	8	703	Cut	Linear cut for probable field boundary
802	8	801	Deposit	Orange-brown sandy clay-silt
901	9	001	Cut	Linear cut for ditch (=501)
902	9	901	Deposit	Coal chips & dross
903	9	901	Deposit	Coal flecked yellow-brown clay-silt
904	9	701	Cut	Cuts for shallow ditches
905	9	904	Deposit	Mixed grey clay & coal
906	9	704	Cut	Circular cut for probable airshaft
907	9	906	Deposit	Mixed clay/stones/soil backfill
907	9	300	Cut	Modern Linear ditch leading into 906
909	9	908		
910	9	300	Deposit Deposit	Mixed clay/stones/soil and vegetation  Patch of mortar
910	9		-	Patch of coal chips & dross
911	9	+	Deposit	*
	9		Surface	Area of cobbles
913	9	012	Cut	Linear cut for ditch
914		913	Deposit	Clear redenseited subseil over 014
915	9	913	Deposit	Clean redeposited subsoil over 914
916	9	913	Deposit	Coal chips, primary fill

Context	Trench	Fill of	Type	Description
1301	13		Cut	Linear cut for probable furrow
1302	13	1301	Deposit	Orange-brown sandy clay-silt
1303	13		Cut	Linear cut for probable furrow
1304	13	1303	Deposit	Orange-brown sandy clay-silt
1305	13		Cut	Linear cut for probable furrow
1306	13	1305	Deposit	Orange-brown sandy clay-silt
1307	13		Cut	Linear cut for probable furrow
1308	13	1307	Deposit	Orange-brown sandy clay-silt
1401	14		Cut	Linear cut for probable furrow
1402	14	1401	Deposit	Orange-brown sandy clay-silt
1403	14		Cut	Linear cut for probable furrow
1404	14	1403	Deposit	Orange-brown sandy clay-silt
1405	14		Cut	Linear cut for field drain
1406	14	1405	Deposit	Clay pipe & fills
1501	15		Cut	Deep possibly mining-related cut
1502	15	1501	Deposit	Inner (upper) fill. Re-deposited subsoil
1503	15	1501	Deposit	Outer (lower) fill. Grey-black clay
1601	16		Deposit	Buried topsoil
1602	16		Deposit	Made ground over 1601
1701	17		Cut	Linear cut for probable furrow
1702	17	1701	Deposit	Orange-brown sandy clay-silt
1703	17		Cut	Linear cut for probable furrow
1704	17	1703	Deposit	Orange-brown sandy clay-silt lower fill
1705	17	1703	Deposit	Coal chips & dross upper fill
1706	17		Cut	Linear cut for probable furrow
1707	17	1706	Deposit	Orange-brown sandy clay-silt
1708	17		Cut	Linear cut for probable furrow
1709	17	1708	Deposit	Orange-brown sandy clay-silt
1710	17		Deposit	Deposit of med-large cobbles in the base of the
			F	topsoil
1711	17		Cut	Linear cut for probable furrow
1712	17	1711	Deposit	Orange-brown sandy clay-silt
1801	18		Cut	Linear cut for probable furrow
1802	18	1801	Deposit	Orange-brown sandy clay-silt
1803	18		Cut	Modern test-pit
1804	18	1803	Deposit	Mixed subsoil/topsoil
1805	18		Cut	Linear cut for probable furrow
1806	18	1805	Deposit	Orange-brown sandy clay-silt
2001	20		Cut	Linear cut for probable furrow
2002	20	2001	Deposit	Orange-brown sandy clay-silt
2003	20		Cut	Linear cut for probable furrow
2004	20	2003	Deposit	Orange-brown sandy clay-silt
2005	20		Cut	Linear cut for probable furrow
2006	20	2005	Deposit	Orange-brown sandy clay-silt
2007	20		Cut	Linear cut for probable furrow
2008	20	2007	Deposit	Orange-brown sandy clay-silt
2101	21	2105	Deposit	Made ground, mixed clayey subsoil
2102	21		Deposit	Coal & soil lens under 2101
2103	21		Deposit	Buried topsoil under 2106
2104	21		Deposit	Yellow-brown subsoil
2105	21		Cut	possible cut filled with re-deposited subsoil
				forming made ground
2106	21		Deposit	Coal & soil over 2103

## **APPENDIX 3: PHOTOGRAPHIC REGISTER**

SLR No. Digital No.		Contexts/description	Taken from	Conditions
FILM 1			_	1
	1-3	General site views pre-ex from W at old	W	Overcast
		railway bridge on Suttieslea Road		
	4	The old railway bridge	SW	Overcast
	5-9	General site views from top of Eighth Street	Е	Overcast
	10-11	Fenced mine-shaft area pre-ex	NW	Overcast
1-2	12	Trench 1, general view	W	Overcast
3-4	13	Trench 1, furrow 103	WNW	Overcast
5-6	14	Trench 1, furrow 103	NNW	Overcast
7-8	15	Trench 1, CPFD aligned with furrow	NNW	Overcast
9-10	16	Trench 2, general view	NNW	Overcast
11-12	17	Trench 2, possible in-filled shaft 201	W	Overcast
13-14	18	Trench 2, ditch 203	SE	Overcast
15-16	19	Trench 2, general view	SW	Bright
13 10	20	Trench 3, 301	WNW	Bright
17-18	21	Trench 4, general view	ENE	Overcast
19-20	22	Trench 4, furrow 401	NW	Overcast
21-22	23	Trench 4, ditch 403	N	Overcast
23-24	24	Trench 4, ducti 403  Trench 5, general view	NNE	Overcast
23-24	25-26	Trench 5 section in mid-trench showing coal	WNW	
	23-26	deposit 508 over FCFD	WINW	Overcast
25-26	27	Trench 5, general view	SSW	Overcast
27-28	28-29	Trench 5 ditch 501	WNW	Overcast
	30		E	
29-30		Trench 7, general view		Overcast
31-32	31	Trench 7, general view	WSW	Overcast
33-34	32	Trench 8, general view	NIXI	Overcast
25.26	33	Trench 8, ditch 801	NW	Overcast
35-36	34	Trench 9, general view	NW	Overcast
FILM 2	T			Ta
1-2	35-37	Trench 9, ditches 904 general view & sections	NW/NE	Overcast
3-6	38-39	Trench 9, airshaft 906 general view & section	NNE	Overcast
7-8	40	Trench 9, ditch 908	NNE	Bright
	41	Trench 9, coal & mortar patches 910-11	NNE	Bright
9-10	42	Trench 9, cobbles 912	NE	Bright
11-12	43-44	Trench 9, ditch 913	NNE	Bright
13-14	45	Trench 9, general view	SSW	Bright
15-16	46	Trench 9, general view	NNE	Bright
17-18	47	Trench 10, general view	NNE	Bright
19-20	48	Trench 11, general view	SSE	Bright
21-22	49	Trench 12, general view	NNE	Bright
23-24	50	Trench 13, general view	SSW	Bright
25-26	51	Trench 13, furrow 1301	WNW	Bright
27-28	52	Trench 13, general view of furrows 1303, 1305, 1307 at NNE end of trench	SW	Overcast
29-30	53	Trench 14, general view	WSW	Overcast
31-32	54-55	Trench 15 deep cut 1501	SW	Overcast
33-34	56	Trench 16, general view	SSW	Overcast
35-36	57-58	Trench 16, sondage 1	E	Overcast
37-38	59-60	Trench 16, sondage 4	E	Overcast
2, 30	61	Trench 16, general view	N	Overcast
	62	Trench 16, general view	S	Overcast

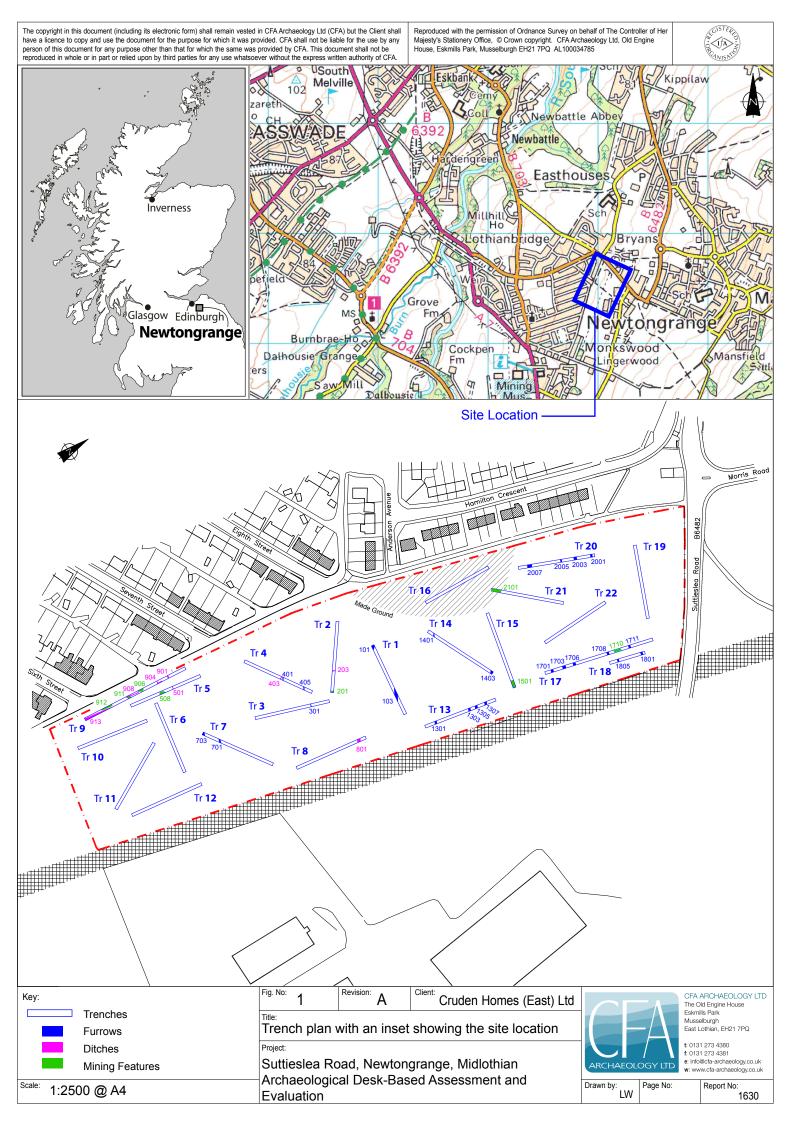
SLR No.	R No. Digital Contexts/description No.		Taken from	Conditions
FILM 3				•
1-2	63-64	Trench 14, furrow 1401 cut by CPFD	SW	Overcast
	65-67	General view of the ends of Trenches 14-15 showing vegetation change which indicates the extend of the made ground recorded in Trench 16	Е	Overcast
	68-69	General views of backfilled trenches		Bright
3-4	70	Trench 19, general view	SE	Bright
5-6	71	Trench 19, soil section at NW end	SW	Bright
7-8	72-73	Trench 17 furrow 1703 with fill 1704 under coal 1705	WNW	Bright/Sha de
9-10	74	Trench 17, general view	SSW	Sunny
11-12	75-76	Trench 17, stony spread in trench section	WNW	Sunny
13-14	77	Trench 17, general view	NNE	Bright/Sun
15-16	78	Trenches 17 & 18, general view from Suttieslea Road	NNE	Sunny
	79	Trench 18, modern test-pit 1803	ESE	Sunny
	80	Trench 17 furrow 1703 with fill 1704 under coal 1705	WNW	Overcast
17-18	81	Trench 20, general view	SSW	Sunny
19-20	82	Trench 20, furrow 2005	WNW	Sun/Shade
21-23	83-85	Trench 21, cut for made ground 2105 & fills at SW end of trench	SE	Sunny
24-25	86	Trench 21, general view	NE	Sunny
26-27	87	S	Sunny	
28-29	88	Trench 22, soil profile in mid trench	Е	Bright

### **APPENDIX 4: FIELD DRAWINGS REGISTER**

Dwg No.	Sheet No.	Scale	Plan / Section	Description/contexts
1	1	1:100	P	Trench 1, General Plan
2	1	1:20	S	Trench 1, furrow 103
3	1	1:100	P	Trench 2, General Plan
4	1	1:10	S	Trench 2, ditch 203
5	1	1:20	S	Trench 2, airshaft 201
6	1	1:100	P	Trench 3, General Plan
7	1	1:10	S	Trench 3, ditch 301
8	1	1:100	P	Trench 4, General Plan
9	1-2	1:10	S	Trench 4, ditch 403
10	2	1:10	S	Trench 4, furrow 401
11	2	1:100	P	Trench 5, General Plan
12	2	1:100	P	Trench 7, General Plan
13	2	1:100	P	Trench 8, General Plan
14	2	1:20	S	Trench 8, furrow 801
15	3	1:10	S	Trench 5, ditch 501
16	3	1:20	S	Trench 5, coal layer 508 cut by QSFD
17	3	1:10	S	Trench 7, furrow 701
18	3	1:10	S	Trench 14, furrow 1401 cut by CPFD 1405
19	4	1:100	P	Trench 1, General Plan
20	4	1:10	S	Trench 9, ditch 913
21	4	1:10	S	Trench 9 ditch 908
22	4	1:10	S	Trench 9, ditch 904
23	4	1:10	S	Trench 9, ditch 904
24	4	1:10	S	Trench 9, airshaft 906
25	DB	1:200	P	Trench 1, General Plan
26	DB	1:200	P	Trench 1, General Plan
27	DB	1:200	P	Trench 1, General Plan
28	4	1:100	P	Trench 1, General Plan
29	4	1:20	S	Trench 13, furrow 1301
30	5	1:100	P	Trench 1, General Plan
31	5	1:100	P	Trench 1, General Plan
32	5	1:100	P	Trench 1, General Plan
33	5	1:20	S	Trench 16, sondage 1
34	5	1:20	S	Trench 16, sondage 4
35	DB	1:200	P	Trench 1, General Plan
36	DB	1:200	P	Trench 1, General Plan
37	6	1:100	P	Trench 1, General Plan
38	6	1:20	S	Trench 17, furrow 1703
39	6	1:20	S	Trench 17, stony deposit 1710
40	6	1:100	P	Trench 1, General Plan
41	6	1:100	P	Trench 1, General Plan
42	6	1:10	S	Trench 20, furrow 2005
43	7	1:20	S	Trench 21, section at SW end 2101-6

# **APPENDIX 5: Discovery and Excavation in Scotland Entry**

LOCAL AUTHORITY:	Midlothian
PROJECT TITLE/SITE NAME:	Suttieslea Road, Newtongrange, Midlothian
PROJECT CODE:	SUTT
PARISH:	Newbattle
NAME OF CONTRIBUTOR:	Ian Suddaby
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Desk-based assessment and Evaluation
NMRS NO(S):	None
SITE/MONUMENT TYPE(S):	Rig and Furrow, Mine (air) shafts
SIGNIFICANT FINDS:	None
NGR (2 letters, 8 or 10 figures)	NT 3405 6465
START DATE (this season)	May 2009
END DATE (this season)	May 2009
PREVIOUS WORK (incl. DES ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	CFA Archaeology Ltd carried out a desk-based-assessment and invasive evaluation (2250m²) of a proposed residential housing development on the eastern edge of Newtongrange, Midlothian. The desk-based assessment showed that mining related "shafts" and rig-and-furrow cultivation were formerly present within the development area. The evaluation revealed truncated rig-and-furrow cultivation remains, aligned mostly NW-SE, two in-filled air shafts, with some possible related features and a field boundary recorded on the historical maps.
PROPOSED FUTURE WORK:	N/A
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	Cruden Homes (East) Ltd
ADDRESS OF MAIN CONTRIBUTOR:	Old Engine House, Eskmills Business Park, Musselburgh, EH21 7PQ
EMAIL ADDRESS:	isuddaby@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	NMRS / Midlothian SMR





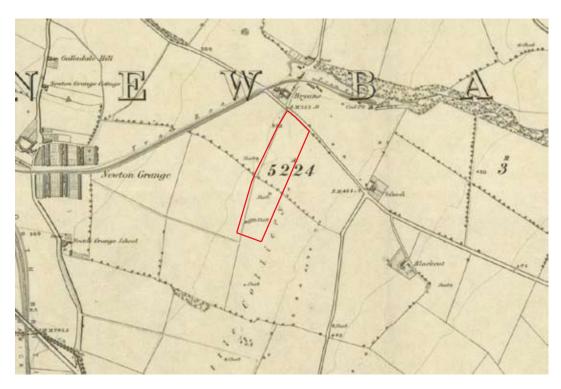


Fig. 2 - Extract from First Edition Ordnance Survey map 1854



Fig. 3 - Extract from Second Edition Ordnance Survey map 1898

Key:	Fig. No: 2-3	Revision: A	Cruden Homes (East) Ltd		The	A ARCHAEOLOGY LTD Old Engine House
	Title: Historica	al map extra	cts		Mis	nils Park selburgh Lothan, EH21 7PQ
	Project: Suttieslea Re		ARCHAEOLOGY LTD  Drawn by: Page No:		31 273 4380 31 273 4381 folicta-archaeology.co.uk rew.cfa-archaeology.co.uk	
Scale:	Evaluation	Archaeological Desk-Based Assessment and Evaluation				Report No: 1630





Fig. 4 - Trench 2, ditch 203 section



Fig. 5 - Trench 4, ditch 403 section

Key:	Fig. No: 4-5	Revision: A	Cruden Homes (East) Ltd	$\sim$	The The	FA ARCHAEOLOGY LTD e Old Engine House
	Title:			MA MA	kmills Park usselburgh et Lotivan, EH21 7PQ	
	Suttieslea R  Archaeologi		ARCHAEOL	/ \ 60	0131 273 4380 0131 273 4381 info@cta-archaeology.co.uk www.cfa-archaeology.co.uk	
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Fig. 6 - Trench 8, ditch 801 section

	Key:	Fig. No:	6	Revision: A		Cruden Homes (East) Ltd			A ARCHAEOLOGY LTD o Old Engine House
		Title:			•			M.	kmills Park sselburgh st Lothan, EH21 7PQ
		Project:							131 273 4380 131 273 4381
			Suttieslea Road, Newtongrange, Midlothian Archaeological Desk-Based Assessment and					OGY LTD	nfollicta-archaeology.co.uk www.cfa-archaeology.co.uk
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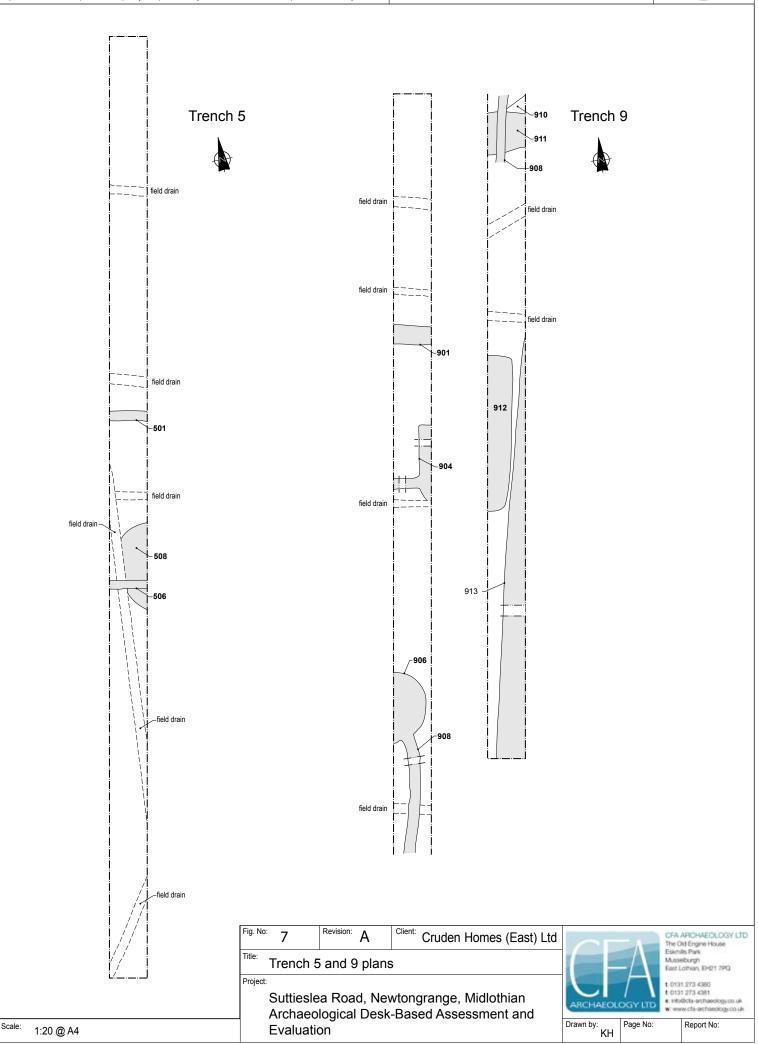






Fig. 8 - Trench 9, ditch 901 section



Fig. 9 - Trench 9, airshaft 906 in the foreground with ditches containing coal and soil fills beyond  $\,$ 

Key:	Fig. No:	8-9	Revision: A	Client: Cruden Homes (East) Ltd		The The	A ARCHAEOLOGY LTD Old Engine House
	Title:				Mis	Eskmills Park Musselburgh East Lothan, EH21 7PQ	
	Project: Suttieslea Road, Newtongrange, Midlothian Archaeological Desk-Based Assessment and			ARCHAEOLOGY LTD		t 0131 273 4380 t 0131 273 4381 e infolicta-archaeology.co.uk w www.cfa-archaeology.co.uk	
Scale:				Drawn by:	Page No:	Report No: 1630	





Fig. 10 - Trench 9, ditch 908 section



Fig. 11 - Trench 9, ditch 904 section

Key:	Fig. No: 10-11 Revision: A	Cruden Homes (East) Ltd		The	A ARCHAEOLOGY LTD o Old Engine House
Title:				M.	imilis Park isselburgh st Lothan, EH21 7PQ
	Project: Suttieslea Road, Newton Archaeological Desk-Bas			t: 0131 273 4380 t: 0131 273 4381 e: info@cta-archaeology.co.uk w: www.cfa-archaeology.co.uk	
Scale:	Evaluation		Drawn by: LW	Page No:	Report No: 1630

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Fig. 12 - Trench 9, ditch 913 section

Кеу:	Fig. No: 12 Revision: A Client: Cruden Homes (East) Ltd		CFA ARICHAEOLOGY LTD The Old Engine House	
	Title:	$\Gamma = \Lambda$	Eskrills Park Musselburgh East Lothan, EH21 7PQ	
	Project: Suttieslea Road, Newtongrange, Midlothian Archaeological Desk-Based Assessment and	ARCHAEOLOGY LTD	t 0131 273 4380 t 0131 273 4381 e info@da-archaeology.co.i.k w www.cfa-archaeology.co.i.k	
Scale:	Evaluation	Drawn by: Page No:	Report No:	





Fig. 13 - Trench 17, Section through furrow 1703 showing the primary fill of soil (1704) overlain by an upper fill of coal chips (1705)



Fig. 14 - Trench 21, made ground 2101 over subsoil 2103

Key:	Fig. No: 13-14 Revision: A	Cruden Homes (East) Ltd		The	ARCHAEOLOGY LTD Did Engine House
	Title:			Miss	nils Park seburgh Lothian, EH21 7PQ
	Project: Suttieslea Road, Newton Archaeological Desk-Bas	ARCHAEOLOGY LTD		31 273 4386 31 273 4381 oBcts-archaeology.co.uk ww.cfs-archaeology.co.uk	
Scale:	Evaluation		Drawn by:	Page No:	Report No: 1630