



# Land North of Drumshoreland, Pumpherston, West Lothian

Archaeological Evaluation Report No. 3645

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| Commissioned by         | Dundas Building Co. Ltd           |
| Date issued             | March 2018                        |
| Version                 | 2                                 |
| OASIS Reference         | cfaarcha1-311700                  |
| Planning Application No | 0418/MSC/17                       |
| Grid Ref                | NT 0638 7012                      |

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

Land North of Drumshoreland, Pumpherston, West Lothian

**Archaeological Evaluation** 

Report No. 3645

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### 1. INTRODUCTION

### 1.1 General

This report presents the results of an archaeological evaluation undertaken by CFA Archaeology Ltd (CFA) in February and March 2018 in advance of a residential development at Land North of Drumshoreland, Pumpherston, West Lothian (NGR: NT 0638 7012) (Fig.1). The work was commissioned by Dundas Building Co. Ltd.

A Written Scheme of Investigation (WSI) was produced by CFA (dated 25 January 2018), and agreed in advance with West of Scotland Archaeological Service (WoSAS), on behalf of West Lothian Council.

## 1.2 Background

Planning Permission (Reference No. 0418/MSC/17) has been granted for the development of 248 houses and 18 flats, landscaping and accesses, formation of ecological habitat, and land for 20 affordable homes at Land North of Drumshoreland Road, Pumpherston. The planning permission was subject to a condition requiring a programme of archaeological trial trenching

Although the present day village of Pumpherston (which adjoins the larger town of Livingston) grew up around the shale mining of the late 19<sup>th</sup>/early 20<sup>th</sup> century its origins appear to be rather earlier, dating back to the medieval period. Information from the Canmore website suggests that a castle (Site No. NT06NE 6) (depicted on Bleau's Atlas of 1662) was located to the south of the evaluation area within close proximity to the present day Pumpherston Farm. The remains of this castle are recorded as having been entirely removed in the late 18<sup>th</sup>/early 19<sup>th</sup> century.

More recent features within close proximity to the evaluation area include Pumpherston Shale Bings (Site No. NT06NE 29), Pumpherston Shale Oil Works (Site No. NT06NE 36), and Broxburn Roman Camp Shale Oil Works (Site No. NT07SE 111). Early Ordnance Survey map editions suggest that the evaluation area consisted of undeveloped farmland. Two reservoirs depicted on map editions from 1897 onwards may have served the shale-oil industry. One of these reservoirs almost bisects the evaluation area while the other is situated immediately to the east of it. Further details relating to the historic background of the development area are contained within Chapter 8 (Cultural Heritage) of the Drumshoreland Master Plan Environmental Statement.

When this trial trenching evaluation was undertaken in February and March 2018, the area consisted of slightly overgrown farmland. Due to the presence of live services, the extreme southern end and part of the north-eastern corner of the evaluation area were unavailable for trial trenching.

## 1.2 Objectives

The objectives 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 through trial trenching evaluation
- To establish the vulnerability of any archaeological features to the proposed development
- To propose mitigation measures where appropriate to avoid, reduce or offset any predicted negative impacts on the archaeological resource.

### 2. WORKING METHODS

### 2.1 General

Work was conducted with regard to the Chartered Institute for Archaeologists' (CIfA) Standard and Guidance as appropriate.

## 2.2 Evaluation Strategy

The site ran to 25 acres and ninety trenches (Tr.1-90) were to be excavated totalling 8,100m<sup>2</sup> (c.8% of the available area) (Fig.1). An area of around 1.3ha at the south-east corner of the site was missed but the 90 trenches were excavated in the remaining, slightly smaller area. Following consultation WoSAS agreed that the evaluation that had been undertaken was sufficient to characterise the area as being of low potential and no further evaluation was requested.

Appropriate stand-off zones were maintained around overhead and underground services, in addition to minimising any impact on fencing related to a great-crested newt mitigation area.

Topsoil and modern overburden were removed by a tracked 360° mechanical excavator equipped with a 1.8m wide smooth-bladed ditching bucket. All groundbreaking work was carried out under constant archaeological supervision. Any further excavation required to fulfil the objectives of the evaluation was carried out by hand.

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.

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

Trench positions were surveyed using industry standard electronic surveying equipment and all trenches were backfilled.

### 3. ARCHAEOLOGICAL RESULTS

### 3.1 General

The trenches contained no features other than field drains and occasional rig and furrow (Fig. 4). Appendix 1 contains a tabulated summary of all the trench dimensions and a description of the trench. Numbers in bold and parentheses are context numbers and are described in Appendix 3.

Topsoil (001) was generally 0.2 to 0.4m deep. Where present, the underlying subsoil (002) was 0.1m to 0.2m deep comprising orange-brown sandy clays. The natural substrate (003) generally comprised pale orange and blue-grey mixed sandy clays, thoroughly distorted with lignite, manganese and degraded stone inclusions.

Overall ground conditions were moderately wet, particularly following adverse weather and especially along the eastern side of the central fields. At times, pools of standing water quickly formed in and around trenches near this boundary, south of the conserved area dividing the site.

No archaeologically significant features or deposits were identified. Traces of rig and furrow, aligned NE-SW in Trenches 7 and 8, were ephemeral.

### 4. CONCLUSIONS

An archaeological trial trenching evaluation was carried out at Land North of Drumshoreland, Pumpherston in advance of a residential development. The trial trenching uncovered a number of clay field drains relating to recent agricultural improvements. Vestigial remains of rig and furrow cultivation were also uncovered indicating pre-improvement agriculture within the area. There were no features, artefacts, or deposits of archaeological significance identified.

No further mitigation measures are recommended in relation to the area covered by this evaluation. However, it is recognised that the final decision on any mitigation required lies with the planning authority as advised by WoSAS.

The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the NRHE and copies of reports will be lodged with WoSAS.

On completion of the mitigation works a summary statement will be submitted for publication in *Discovery and Excavation in Scotland* (See Appendix 4) and will also be reported on through *OASIS Scotland*.

# **APPENDIX 1: Summary of Evaluation Trenches**

| Trench no. | Size (m) | Depth (m) | Topsoil<br>Depth (m) | Subsoil<br>Depth (m) | Description                                  |
|------------|----------|-----------|----------------------|----------------------|--|
| 01         | 50 x 1.8 | 0.37      | 0.37                 |                      |  |
| 02         | 50 x 1.8 | 0.34      | 0.34                 |                      | Clay field drain                             |
| 03         | 50 x 1.8 | 0.63      | 0.40                 | 0.23                 |  |
| 04         | 50 x 1.8 | 0.70      | 0.30                 | 0.40                 | Modern field drains                          |
| 05         | 50 x 1.8 | 0.30      | 0.30                 |                      | Modern field drains                          |
| 06         | 50 x 1.8 | 0.36      | 0.36                 |                      |  |
| 07         | 50 x 1.8 | 0.35      | 0.35                 |                      | Rig and furrow                               |
| 08         | 50 x 1.8 | 0.50      | 0.50                 |                      | Rig and furrow                               |
| 09         | 50 x 1.8 | 0.30      | 0.30                 |                      | Clay field drain                             |
| 10         | 50 x 1.8 | 0.65      | 0.35                 | 0.30                 | Clay field drains                            |
| 11         | 50 x 1.8 | 0.34      | 0.34                 |                      | -  |
| 12         | 50 x 1.8 | 0.60      | 0.40                 |                      |  |
| 13         | 50 x 1.8 | 0.44      | 0.32                 | 0.12                 | Clay field drains                            |
| 14         | 50 x 1.8 | 0.50      | 0.30                 | 0.12                 | Clay field drains                            |
| 15         | 50 x 1.8 | 0.60      | 0.40                 | 0.20                 | Clay field drains                            |
| 16         | 50 x 1.8 | 0.50      | 0.30                 | 0.20                 | Plough scars, clay field drains              |
| 17         | 50 x 1.8 | 0.55      | 0.30                 | 0.25                 | Clay field drains                            |
| 18         | 50 x 1.8 | 0.47      | 0.39                 |                      |  |
| 19         | 50 x 1.8 | 0.43      | 0.40                 |                      | Clay field drains                            |
| 20         | 50 x 1.8 | 0.50      | 0.42                 |                      |  |
| 21         | 50 x 1.8 | 0.30      | 0.30                 |                      |  |
| 22         | 50 x 1.8 | 0.42      | 0.39                 |                      |  |
| 23         | 50 x 1.8 | 0.37      | 0.33                 |                      | Clay field drain                             |
| 24         | 50 x 1.8 | 0.35      | 0.32                 |                      | Clay field drain                             |
| 25         | 50 x 1.8 | 0.50      | 0.30                 | 0.20                 | Clay field drains                            |
| 26         | 50 x 1.8 | 0.60      | 0.35                 | 0.25                 |  |
| 27         | 50 x 1.8 | 0.60      | 0.25                 | 0.35                 | Rubble and modern bank material, eastern end |
| 28         | 50 x 1.8 | 0.52      | 0.30                 | 0.20                 | Clay field drains                            |
| 29         | 50 x 1.8 | 0.46      | 0.36                 |                      | Clay field drain                             |
| 30         | 50 x 1.8 | 1.40      | 0.50                 | 0.90                 | Natural buried soil, mid-trench depression   |
| 31         | 50 x 1.8 | 0.80      | 0.80                 |                      |  |
| 32         | 50 x 1.8 | 0.50      | 0.50                 |                      |  |
| 33         | 50 x 1.8 | 0.80      | 0.80                 |                      |  |
| 34         | 50 x 1.8 | 0.30      | 0.30                 |                      |  |
| 35         | 50 x 1.8 | 0.45      | 0.45                 |                      |  |
| 36         | 50 x 1.8 | 0.40      | 0.40                 |                      | Plough scars                                 |
| 37         | 50 x 1.8 | 0.60      | 0.60                 |                      | Clay field drains                            |
| 38         | 50 x 1.8 | 0.50      | 0.50                 |                      |  |
| 39         | 50 x 1.8 | 0.60      | 0.60                 |                      |  |
| 40         | 50 x 1.8 | 0.30      | 0.30                 |                      | Clay field drains, plough scars              |
| 41         | 50 x 1.8 | 0.30      | 0.30                 |                      | Clay field drain, plough scars               |
| 42         | 50 x 1.8 | 0.30      | 0.30                 |                      |  |
| 43         | 50 x 1.8 | 0.30      | 0.30                 |                      | Clay field drain                             |
| 44         | 50 x 1.8 | 0.30      | 0.30                 |                      | Plough scars                                 |
| 45         | 50 x 1.8 | 0.30      | 0.30                 |                      | Clay field drain                             |
| 46         | 50 x 1.8 | 0.30      | 0.30                 |                      | Clay field drain                             |
| 47         | 50 x 1.8 | 0.40      | 0.30                 | 0.10                 |  |

| 48 | 50 x 1.8 | 0.35 | 0.35 |      | Clay field drains, plough scars          |
|----|----------|------|------|------|--|
| 49 | 50 x 1.8 | 0.65 | 0.30 | 0.35 | Clay field drains                        |
| 50 | 50 x 1.8 | 0.47 | 0.27 | 0.20 | Clay field drain                         |
| 51 | 50 x 1.8 | 0.36 | 0.23 | 0.13 | Clay field drain                         |
| 52 | 50 x 1.8 | 0.64 | 0.35 | 0.29 | -  |
| 53 | 50 x 1.8 | 0.38 | 0.23 | 0.15 |  |
| 54 | 50 x 1.8 | 0.35 | 0.35 |      | Clay field drain, site investigation pit |
| 55 | 50 x 1.8 | 0.35 | 0.35 |      | Clay field drain, plough scars           |
| 56 | 50 x 1.8 | 0.37 | 0.27 | 0.10 |  |
| 57 | 50 x 1.8 | 0.35 | 0.35 |      |  |
| 58 | 50 x 1.8 | 0.40 | 0.40 |      |  |
| 59 | 50 x 1.8 | 0.47 | 0.27 | 0.20 |  |
| 60 | 50 x 1.8 | 0.30 | 0.30 |      | Clay field drain                         |
| 61 | 50 x 1.8 | 0.30 | 0.30 |      | Plough scars                             |
| 62 | 50 x 1.8 | 0.49 | 0.38 | 0.11 |  |
| 63 | 50 x 1.8 | 0.44 | 0.24 | 0.20 |  |
| 64 | 50 x 1.8 | 0.40 | 0.21 | 0.19 |  |
| 65 | 50 x 1.8 | 0.36 | 0.23 | 0.13 |  |
| 66 | 50 x 1.8 | 0.36 | 0.16 | 0.20 |  |
| 67 | 50 x 1.8 | 0.38 | 0.24 | 0.14 |  |
| 68 | 50 x 1.8 | 0.40 | 0.26 | 0.14 |  |
| 69 | 50 x 1.8 | 0.35 | 0.35 |      |  |
| 70 | 50 x 1.8 | 0.40 | 0.40 |      | Site investigation pit                   |
| 71 | 50 x 1.8 | 0.40 | 0.40 |      | Plough scars                             |
| 72 | 50 x 1.8 | 0.40 | 0.28 | 0.12 |  |
| 73 | 50 x 1.8 | 0.35 | 0.35 |      | Clay field drain                         |
| 74 | 50 x 1.8 | 0.40 | 0.40 |      |  |
| 75 | 50 x 1.8 | 0.35 | 0.35 |      |  |
| 76 | 50 x 1.8 | 0.35 | 0.35 |      |  |
| 77 | 50 x 1.8 | 0.35 | 0.35 |      | Site investigation pit                   |
| 78 | 50 x 1.8 | 0.40 | 0.40 |      |  |
| 79 | 50 x 1.8 | 0.40 | 0.40 |      | Site investigation pit, clay field drain |
| 80 | 50 x 1.8 | 0.35 | 0.35 |      |  |
| 81 | 50 x 1.8 | 0.30 | 0.30 |      |  |
| 82 | 50 x 1.8 | 0.40 | 0.28 | 0.12 |  |
| 83 | 50 x 1.8 | 0.30 | 0.30 |      |  |
| 84 | 50 x 1.8 | 0.40 | 0.40 |      |  |
| 85 | 50 x 1.8 | 0.30 | 0.30 |      | Site investigation pit                   |
| 86 | 50 x 1.8 | 0.30 | 0.30 |      |  |
| 87 | 50 x 1.8 | 0.30 | 0.30 |      | Plough scars                             |
| 88 | 50 x 1.8 | 0.34 | 0.25 | 0.09 |  |
| 89 | 50 x 1.8 | 0.40 | 0.40 |      |  |
| 90 | 50 x 1.8 | 0.38 | 0.27 | 0.11 |  |

# **APPENDIX 2: Photographic Register**

| No. 001 002 003 004 005  | Title Shot General pre-ex shots of site | N/A   |
|--------------------------|---|-------|
| 002<br>003<br>004<br>005 | General pre-ex shots of site            |       |
| 003<br>004<br>005        | -                                       | NE    |
| 004<br>005               | General pre-ex shots of site            | N     |
| 005                      | General pre-ex shots of site            | NW    |
|                          | Trench 3                                | NW    |
| 006                      | Trench 2                                | NW    |
| 007                      | Trench 5                                | NE    |
| 008                      | Trench 7                                | W     |
| 009                      | Trench 8                                | SW    |
| 010                      | Trench 1                                | NW    |
| 010                      | Trench 4                                | SW    |
| 012                      | Trench 5                                | S     |
| 013                      | Trench 6                                | E     |
| 013                      | Trench 8                                | SW    |
| 014                      | Trench 11                               | SE    |
| 013                      | Trench 12                               | E     |
| 017                      | Trench 10                               | NE    |
| 017                      | Trench 9                                | NE NE |
| 019                      | Trench 13                               | NE NE |
| 020                      | Trench 14                               | E     |
| 020                      | Trench 19                               | E     |
| 021                      | Trench 20                               | NE    |
| 023                      | Trench 17                               | N     |
| 023                      | Trench 18                               | E     |
| 025                      | Trench 16                               | N     |
| 026                      | Trench 22                               | SW    |
| 027                      | Trench 24                               | N     |
| 028                      | Trench 15                               | W     |
| 029                      | Trench 23                               | NNE   |
| 030                      | Trench 21                               | N     |
| 031                      | Trench 29                               | SE    |
| 032                      | Trench 28                               | E     |
| 033                      | Trench 27                               | NW    |
| 034                      | Trench 26                               | NNW   |
| 035                      | Trench 25                               | W     |
| 036                      | Trench 49                               | W     |
| 037                      | Trench 44                               | S     |
| 038                      | Trench 48                               | WNW   |
| 039                      | Trench 43                               | W     |
| 040                      | Trench 42                               | NE    |
| 040                      | Trench 41                               | NNE   |
| 041                      | Trench 41                               | SE    |
| 042                      | Trench 35                               | NE NE |
| 043                      | Trench 36                               | E     |
| 045                      | Trench 45                               | W     |
| 045                      | Trench 38                               | S     |
| 047                      | Trench 47                               | W     |
| 047                      | Trench 37                               | W     |

| 049 | Trench 39  | SW    |
|-----|------------|-------|
| 050 | Trench 46  | SW    |
| 050 | Trench 40  | S     |
| 051 | Trench 30  | SW    |
| 052 |            | WSW   |
| 053 | Trench 31  | SE    |
|     | Trench 33  |       |
| 055 | Trench 34  | NE NE |
| 056 | Trench 32  | NE NE |
| 057 | Trench 50  | NW    |
| 058 | Trench 51  | W     |
| 059 | Trench 65  | NE    |
| 060 | Trench 66  | NE    |
| 061 | Trench 67  | E     |
| 062 | Trench 68  | W     |
| 063 | Trench 69  | SE    |
| 064 | Trench 62  | W     |
| 065 | Trench 70  | SE    |
| 066 | Trench 63  | W     |
| 067 | Trench 71  | SE    |
| 068 | Trench 61  | WNW   |
| 069 | Trench 59  | NW    |
| 070 | Trench 64  | WNW   |
| 071 | Trench 60  | NW    |
| 072 | Trench 55  | NW    |
| 073 | Trench 56  | S     |
| 074 | Trench 54  | W     |
| 075 | Trench 52  | N     |
| 076 | Trench 57  | W     |
| 077 | Trench 58  | N     |
| 078 | Trench 73  | N     |
| 079 | Trench 77  | NW    |
| 080 | Trench 75  | W     |
| 081 | Trench 76  | N     |
| 082 | Trench 83  | N     |
| 083 | Trench 74  | NE    |
| 084 | Trench 84  | N     |
| 085 | Trench 85  | N     |
| 086 | Trench 86  | NE    |
| 087 | Trench 87  | NW    |
| 088 | Trench 78  | NW    |
| 089 | Trench 81  | N     |
| 090 | Trench 53  | NE    |
| 091 | Trench 82  | WNW   |
| 092 | Trench 79  | WNW   |
| 093 | Trench 80  | NW    |
| 094 | Trench 88  | N     |
| 095 | Trench 90  | W     |
| 096 | Trench 89  | W     |
| 090 | Trench 72  | ENE   |
| 071 | TICHCH / L | ENE   |

# **APPENDIX 3: Context Register**

| Context | Fill of | Type    | Description  |
|---------|---------|---------|--|
| no.     |         |         |  |
| 001     |         | Deposit | Topsoil; dark brown silty clay                           |
| 002     |         | Deposit | Subsoil; mid orange-brown sandy clay                     |
| 003     |         | Deposit | Natural; very mixed orange and blue-grey sandy clays     |
|         |         |         | with frequent inclusions of manganese and degraded stone |

## APPENDIX 4: DISCOVERY AND EXCAVATION IN SCOTLAND ENTRY

| LOCAL AUTHORITY:  | West Lothian   |
|---|--|
|   | Land North of Drumshoreland, Pumpherston, West Lothian   |
| PROJECT TITLE/SITE NAME:  | Land North of Drumshoreland, Lumpherston, West Lounan  |
| PROJECT CODE:   | PUMP   |
| PARISH:   | Mid Calder   |
| NAME OF CONTRIBUTOR:  | Bruce Glendinning  |
| NAME OF ORGANISATION:   | CFA Archaeology Ltd  |
| TYPE(S) OF PROJECT:   | Evaluation   |
| NMRS NO(S):   | N/A  |
| SITE/MONUMENT TYPE(S):  | N/A  |
| SIGNIFICANT FINDS:  | N/A  |
| NGR (2 letters, 8 figures)  | NT 0638 7012   |
| START DATE (this season)  | February 2018  |
| END DATE (this season)  | March 2018   |
| PREVIOUS WORK (incl. DES ref.)  | None   |
| MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields) | An archaeological trial trenching evaluation was carried out at Land North of Drumshoreland, Pumpherston in advance of a residential development. The trial trenching uncovered a number of clay field drains relating to recent agricultural improvements. Vestigial remains of rig and furrow cultivation were also uncovered indicating preimprovement agriculture within the area. There were no features, artefacts, or deposits of archaeological significance identified. |
| PROPOSED FUTURE WORK:   | None   |
| CAPTION(S) FOR ILLUSTRS:  | None   |
| SPONSOR OR FUNDING BODY:  | Dundas Building Co. Ltd  |
| ADDRESS OF MAIN<br>CONTRIBUTOR:   | CFA Archaeology Ltd, Old Engine House, Eskmills Park,<br>Musselburgh, EH21 7PQ.  |
| EMAIL ADDRESS:  | bglendinning@cfa-archaeology.co.uk   |
| ARCHIVE LOCATION (intended/deposited)                                     | Archive to be deposited in NRHE, Reports lodged with SMR.  |

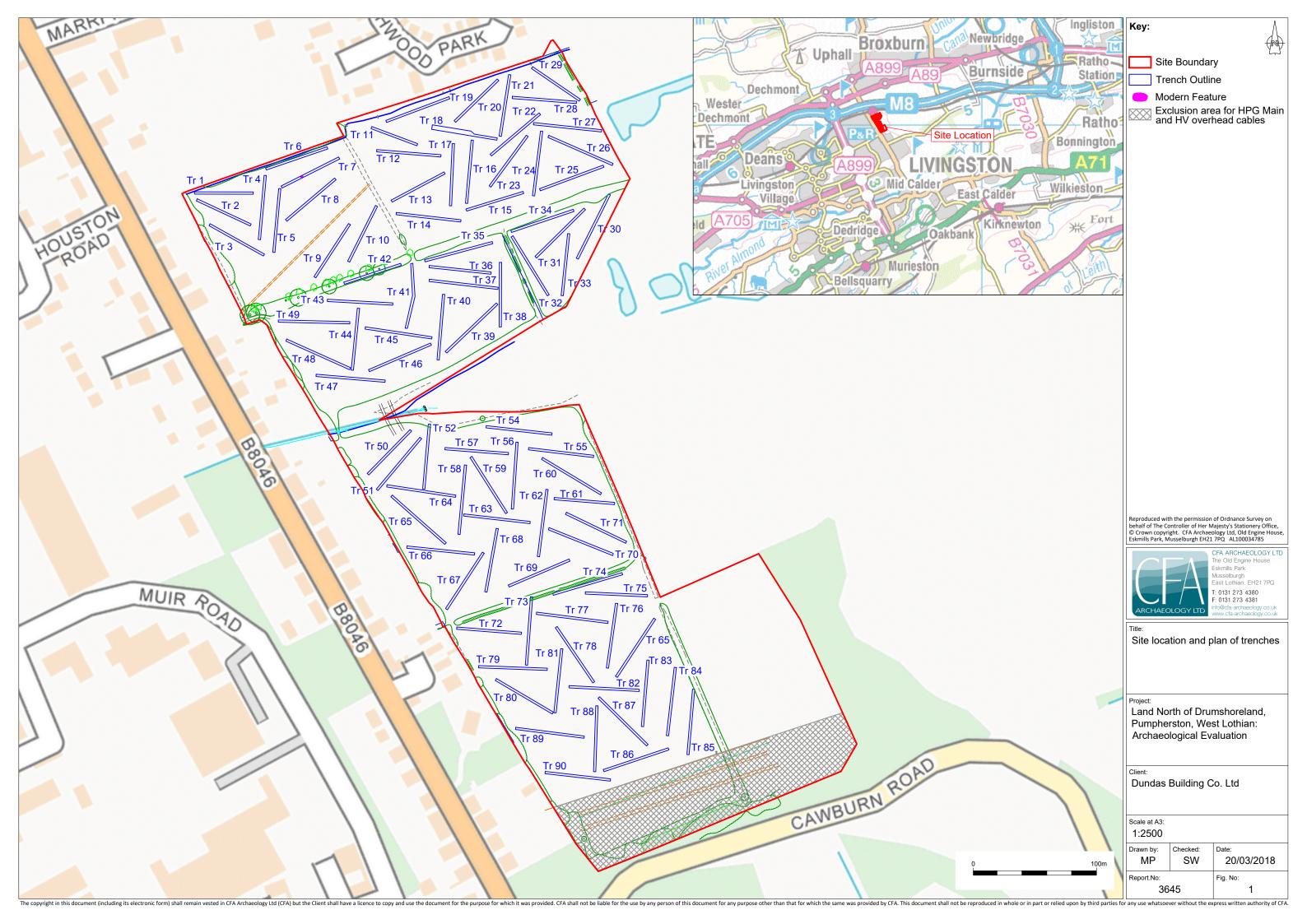




Fig. 2 - General view of site pre-excavation; northern field, facing northeast



Fig. 3 - Trench 62, facing West, showing shallow depth of trench and mixed composition of the natural

<sup>Project:</sup> Land North of Drumshoreland, Pumpherston, West Lothian: Archaeological Evaluation



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| Checked: | Date:    |
|----------|----------|
| SW       | 20/03/18 |
|          | Fig. No: |
| 45       | 2-3      |
|          | SW       |



Fig. 4 - Trench 14, facing East; minimal traces of clay field drains

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 Drawn by:
 Checked:
 Date:

 MP
 SW
 20/03/18

 Report No:
 Fig. No:

 3645
 4



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