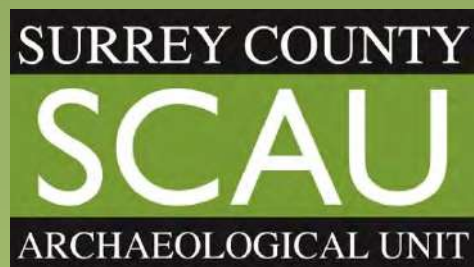


**PROPOSED NEW HOUSING AT
OLD COMMON, HEATHFIELD,
EAST SUSSEX**

MAGNETOMETER SURVEY



**PROPOSED NEW HOUSING AT OLD COMMON,
HEATHFIELD, EAST SUSSEX.**

MAGNETOMETER SURVEY

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1 INTRODUCTION

1.1 A planning application for 42 new dwellings at Old Common, Heathfield, East Sussex, has been submitted to Wealden Borough Council in 2016 (WD/2016/3063/MAO).

1.2 The County Archaeologist recommended the need 'to clarify the archaeological significance of this site with a geophysical survey and dependant on the results, trial trenching. The results will then inform the planning decision process.'

1.3 Surrey County Archaeological Unit commissioned Abingdon Archaeological Geophysics to undertake the field survey and preparation of the technical report, on behalf of their client Lucas Design.

2 METHODOLOGY

2.1 The survey was carried out on 9 and 10 November. The long vegetation was cut in order to facilitate the survey. The site is in two parts. The eastern part has a house and gardens and there is a grass field to its west. The ground is fairly level and slopes downwards from east to west.

2.2 The geology is, from the Geology of Britain viewer, understood to be Ashdown Formation - Sandstone, Siltstone and Mudstone. No superficial deposits are recorded. The soil appeared to be a sticky clay.

2.3 The total area surveyed was 0.73 hectares with a traverse separation of 1metre and a reading / sample interval of 8 per metre. A Bartington Grad 601/2 fluxgate gradiometer was used to undertake the survey. The main survey area was laid out with 30 metre grids, the first line start NW corner going east zig zag.

2.4 TerraSurveyor was used to process the data. Destagger was used to remove the lag between the readings being taken and being logged. It also used clipping to prevent very high readings from dominating the appearance of the survey. As the initial balancing of the equipment was not is a magnetically quiet area, de-stripe was also used to remedy this.

2.5 The 30 metre grids were set off a baseline running through the field and garden. The grids were set out using tapes and an optical square. The main grid corners were recorded using a Trimble pro XR GPS with a beacon differential correction.

2.6 GPS grid references

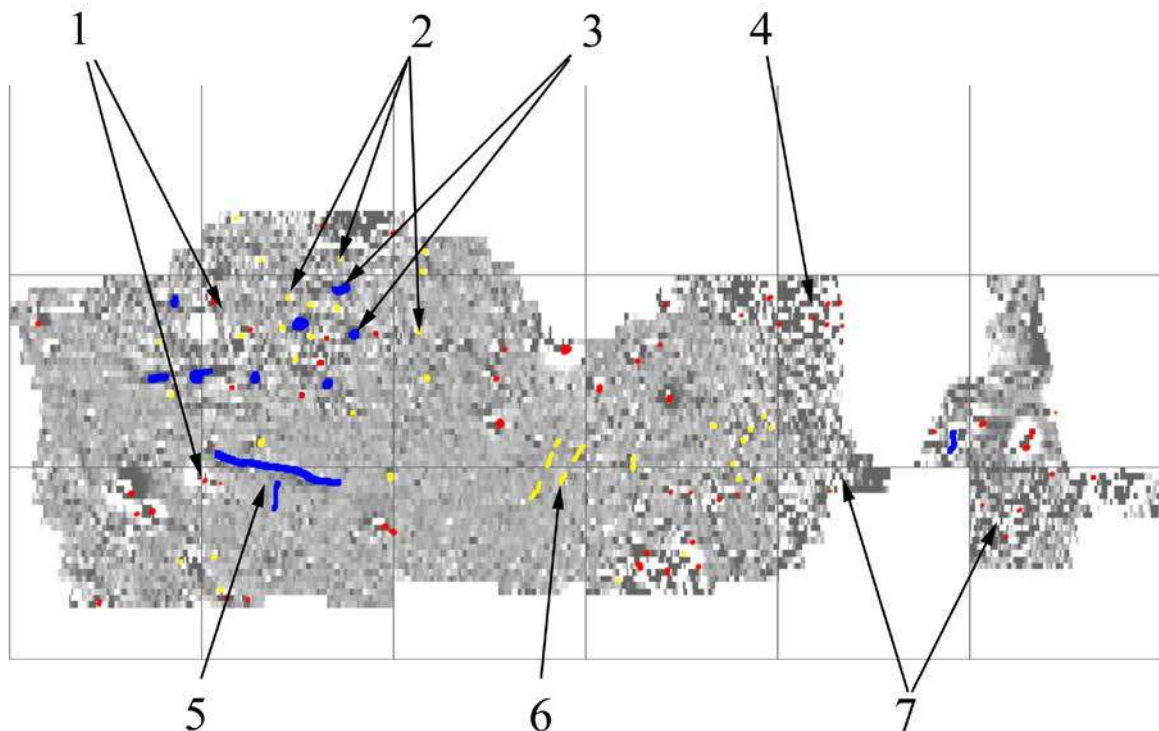
NE corner grid 5	556846.0E 121388.6N
NE corner grid 9	556871.7E 121403.3N
NE corner grid 6	556860.4E 121362.4N
NE corner grid 7	556886.6E 121377.3N
NE corner grid 12	556912.7E 121392.0N
NE corner grid 14	556938.5E 121407.0N
NE corner grid 13	556923.9E 121433.6N
SE corner grid 1	556990.7E 121436.1N
SW corner grid 1	556964.7E 121421.3N

3 RESULTS

3.1 The anomalies identified during the survey are listed below and highlighted on the interpretation plan below.

1. Probably pieces of iron. There are many of these scattered over the field.
2. Probably pieces of fired ceramic material. Some could be ferrous, just more deeply buried. Whilst they occur all over the field they appear to be concentrated in this northern part.
3. Areas of higher magnetic readings. Could be tree holes or similar pits.
4. Area of high readings. As this is near a gate it could be where bricks have been put down to improve the surface. This is also an area where we are told there is a modern field drain with flint pebbles over it.
5. High linear anomalies. These could be ditches or similar.
6. Parallel lines of slight low anomalies. Purpose unknown, but often tractor wheel ruts can cause slight linear anomalies like this.
7. Areas of small high anomalies in the garden and near the gate. Could be modern, as in 5 above.

Fig 2 Heathfield Old Common. Interpretation plan



4 CONCLUSIONS

4.1 Geophysics is not always successful in locating sites. The ability of the survey to locate buried features is influenced by ground conditions and the state of preservation of remains. Graves and spreads of material are seldom located. The failure to locate remains does not mean that they are not there. Geophysics on its own cannot give a date to remains. On this occasion the magnetometry results were relatively clear. A possible ditch and area of small high readings was however located. Often magnetometry only locates buildings by the scatter of roof tile and ferrous objects, as the walls may be magnetically undetectable.

4.2 In view of the results the layout of the proposed trial trenches has been revised, in order to test the anomalies identified within the survey. The updated layout would need the approval of the Local Planning Authority, generally acting on the advice of the East Sussex County Archaeologist.

Fig 3 Heathfield Old Common. Magnetometry approximately located on Google earth base.



Fig 4 Heathfield Old Common. Plan showing grid order

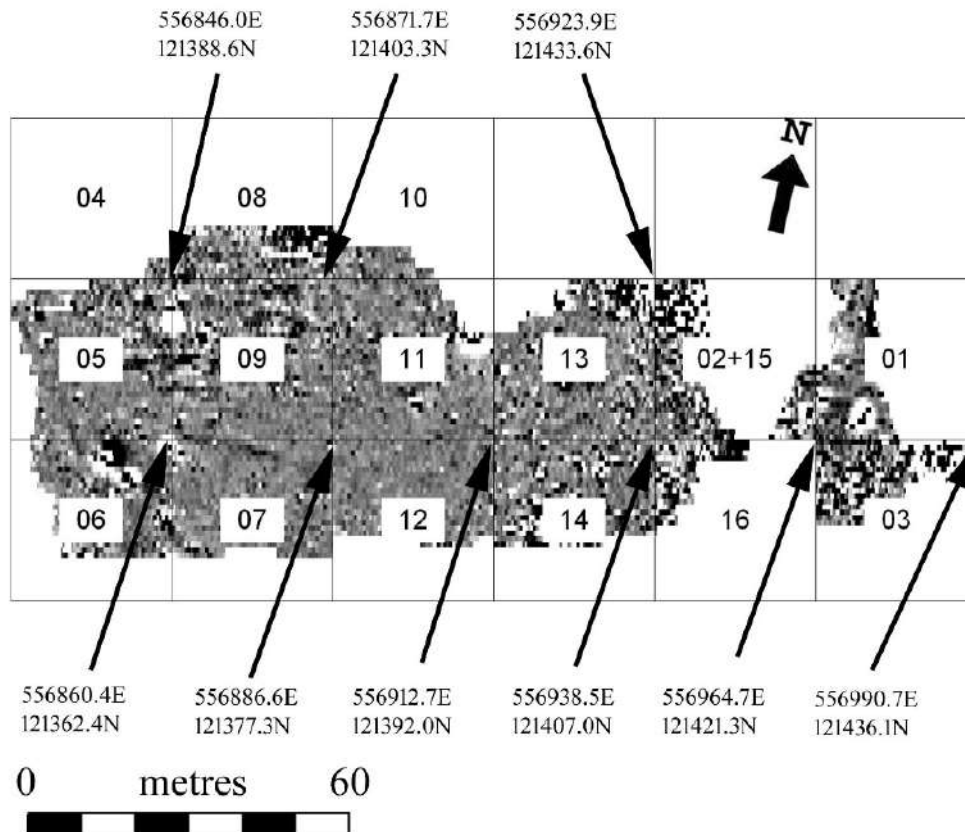
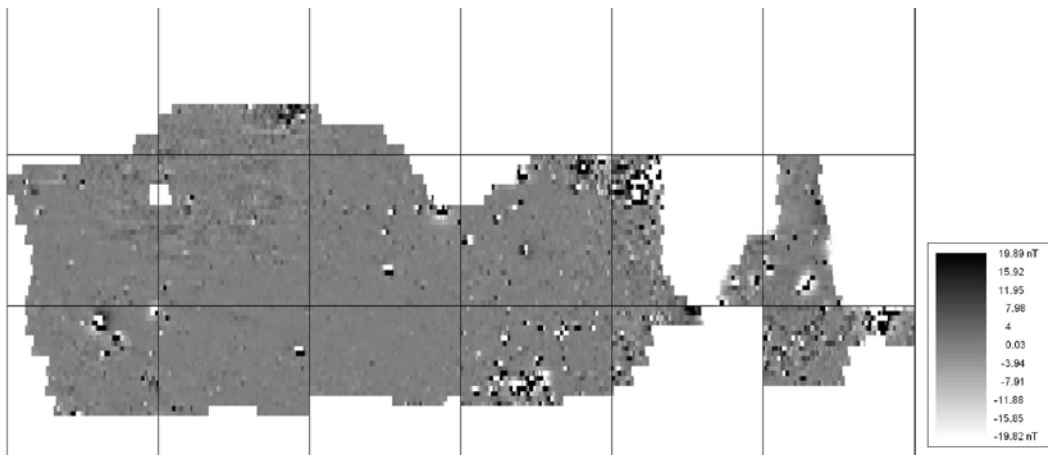
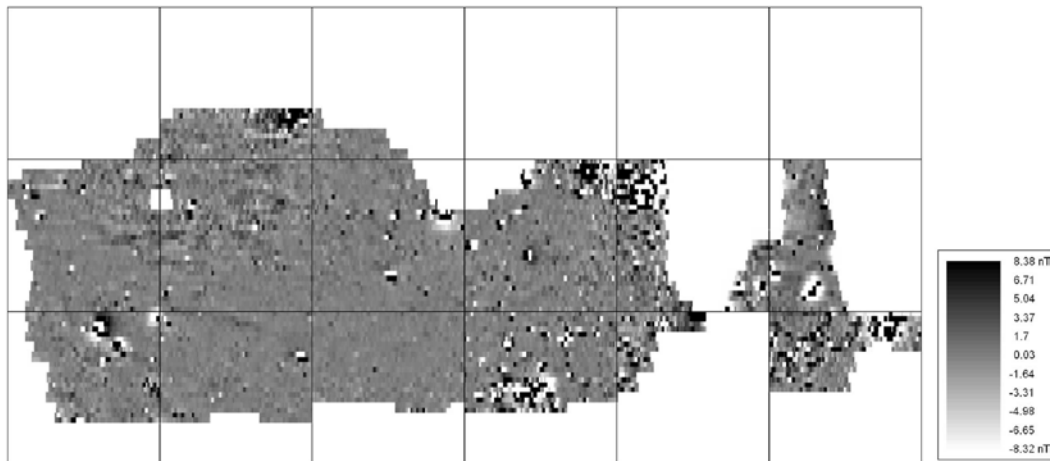


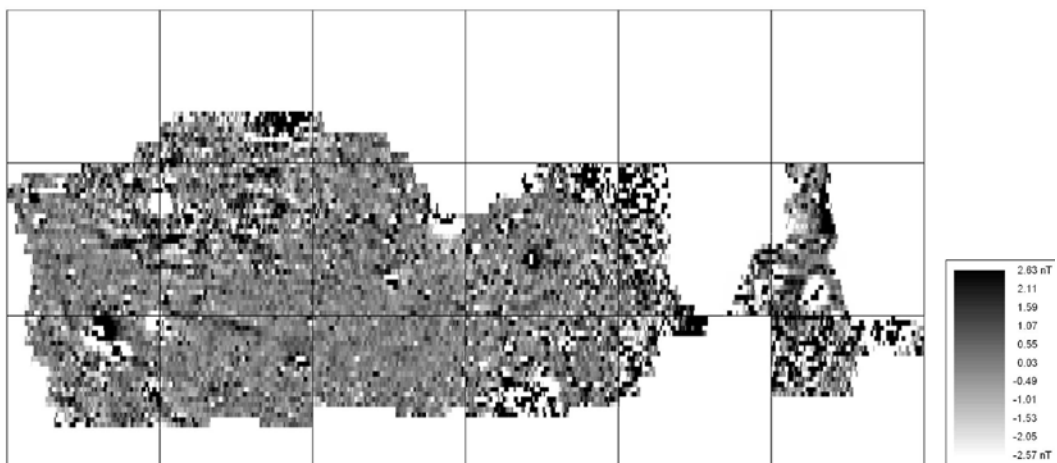
Fig 5 Heathfield Old Common. Magnetometry Greyscale with scales



Clipped to +/-19nT

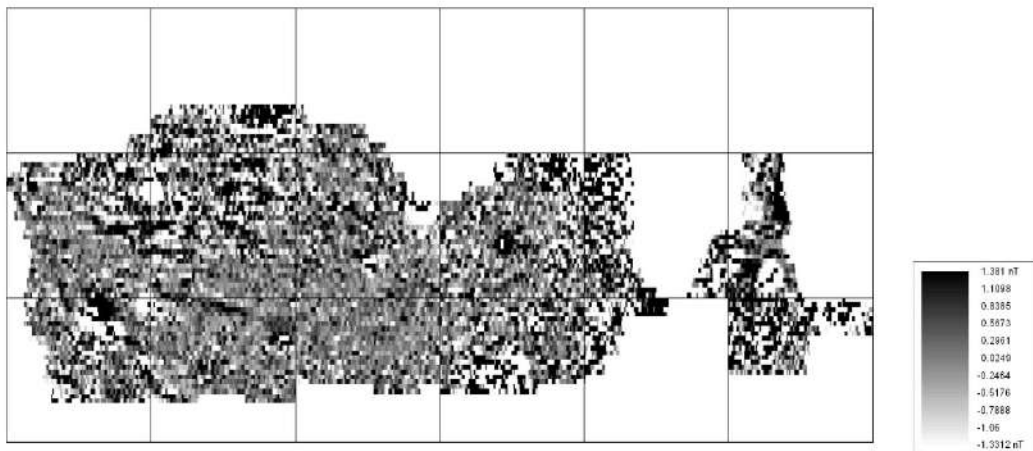


Clipped to +/- 8nT



Clipped to +/- 2.5nT

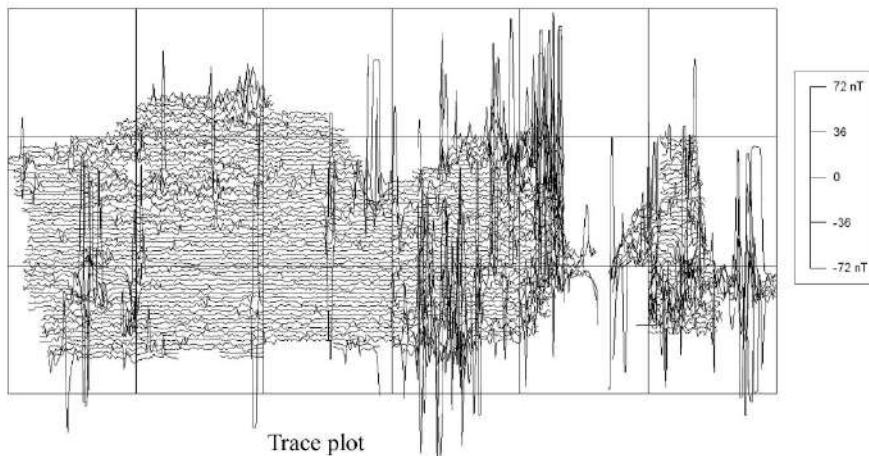
Fig 6 Heathfield Old Common. Magnetometry plots and trace plot



Clipped to +/- 1.3nT



Clipped to +/-2.5nT without grid lines



Trace plot

LEGEND

B	BOLLARD
BL	BASE LEVEL
CATV	CABLE TV COVER
CL	COVER LEVEL
DHL	DOOR HEAD LEVEL
DP	DOWN PIPE
EIC	ELECTRICAL INSPECTION COVER
EP	ELECTRICITY POLE
FH	FIRE HYDRANT
FL	FLOOR LEVEL
G	GULLY
GIC	GAS SERVICE INSPECTION COVER
IC	INSPECTION COVER
IL	INVERT LEVEL
JB	JUNCTION BOX
LC	LIGHTING COLUMN
MH	MAN-HOLE COVER
	(S) STORM, (F) FOUL, (C) COMBINED
P	POST
RE	RODDING EYE
RNP	ROAD NAME PLATE
RS	ROAD SIGN
RWP	RAINWATER PIPE
SC(G)	STOP COCK (GAS)
SC(W)	STOP COCK (WATER)
STN	SURVEY STATION WITH LEVEL
SV	STOP VALVE
SVP	SOIL VENT PIPE
TCB	TELEPHONE CALL BOX
THL	THRESHOLD LEVEL
TIC	TELEPHONE INSPECTION COVER
TOW	TOP OF WALL
TP	TELECOM POLE
TS	TREE STUMP
US	UNDERSIDE
WCL	WINDOW CILL LEVEL
WHL	WINDOW HEAD LEVEL
WM	WATER METER
WIC	WATER SERVICE INSPECTION COVER
TREE DESCRIPTION	
SYCAMORE	= SPECIES
ht=12m	= TREE HEIGHT
2 BOLES	= EXTRA INFORMATION

NOTES

1. ALL LEVELS RELATED TO ORDNANCE SURVEY DATUM DERIVED FROM GPS OBSERVATIONS.
2. SURVEY GRID IS RELATED TO ORDNANCE SURVEY GRID DERIVED FROM GPS OBSERVATIONS AND WITH A SCALE FACTOR OF 1.
3. NO RESPONSIBILITY CAN BE TAKEN FOR THE INCORRECT IDENTIFICATION OF TREE, HEDGE OR VEGETATION SPECIES.
4. TREE BOLE AND AVERAGE CANOPY SPREADS HAVE BEEN SHOWN TO SCALE AND WHERE POSSIBLE THE EXTENT OF TREE CANOPIES HAVE BEEN SURVEYED.
5. ONLY TREES WITH A BOLE DIAMETER GREATER THAN 0.3 METRES HAVE BEEN SURVEYED UNLESS THE SPECIES IS OF INTEREST.
6. MINOR PLANT AND PIPEWORK DETAIL HAVE NOT BEEN SURVEYED.
7. DUE TO THE OVERGROWN NATURE OF PARTS OF THE SITE NO GUARANTEE CAN BE GIVEN THAT ALL RELEVANT DETAIL HAS BEEN SURVEYED.

SURVEY STATIONS				
Name	Eastings	Northing	Height	Remark
1	556948.240	121587.353	147.718	Survey Nail
2	557021.510	121489.711	147.876	Survey Nail
3	557065.877	121421.235	150.932	Survey Nail
4	557036.910	121466.193	148.495	Survey Nail
50	556933.319	121412.622	140.520	Peg
51	556866.147	121374.517	134.541	Peg
52	556819.552	121390.459	129.187	Peg
53	556972.318	121430.517	138.076	Peg
54	556933.957	121454.401	141.412	Survey Nail
55	556968.800	121408.362	143.710	Peg
56	556946.351	121462.295	141.983	Survey Nail
57	556968.300	121470.661	143.944	Survey Nail
58	556987.787	121481.449	145.470	Survey Nail
59	556989.265	121460.024	145.096	Survey Nail
60	557001.696	121484.017	146.658	Survey Nail
61	557001.030	121496.271	147.188	Peg
62	557006.843	121447.185	147.357	Peg
63	557013.681	121431.217	148.276	Peg
64	556995.050	121436.611	146.120	Peg
65	556996.721	121420.266	147.023	Peg
66	556973.796	121425.817	143.728	Peg

Surveyed by
G.D.BAGSHAW
Land & Engineering Surveyor
Mill Cottage, Mill Lane, Preston
Canterbury, Kent, CT3 1HG

Drawing Title
TOPOGRAPHICAL SURVEY OF LAND AT
OLD COMMON, LITTLE LONDON ROAD
CROSS IN HAND, HEATHFIELD, TN21 0LT

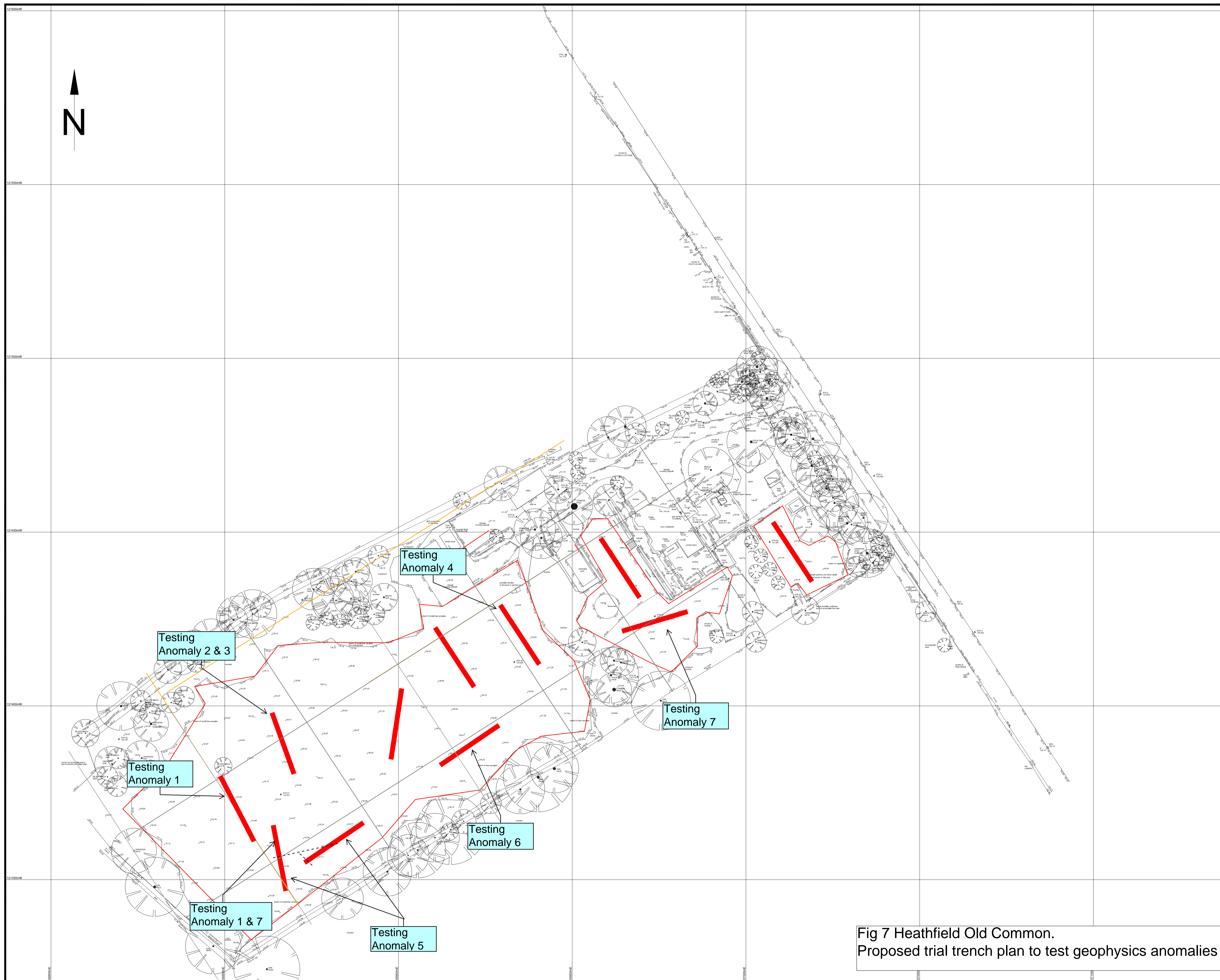
Client
LUCAS DESIGN

Drawing Number 1 OF 4
Original Sheet Size A1 AT 1/500

Drawn By: A.NICHOLSON
Cad Filename: OLD COMMON AL4.dwg

Date: 27th AUGUST 2015
Revision:

Fig 7 Heathfield Old Common.
Proposed trial trench plan to test geophysics anomalies



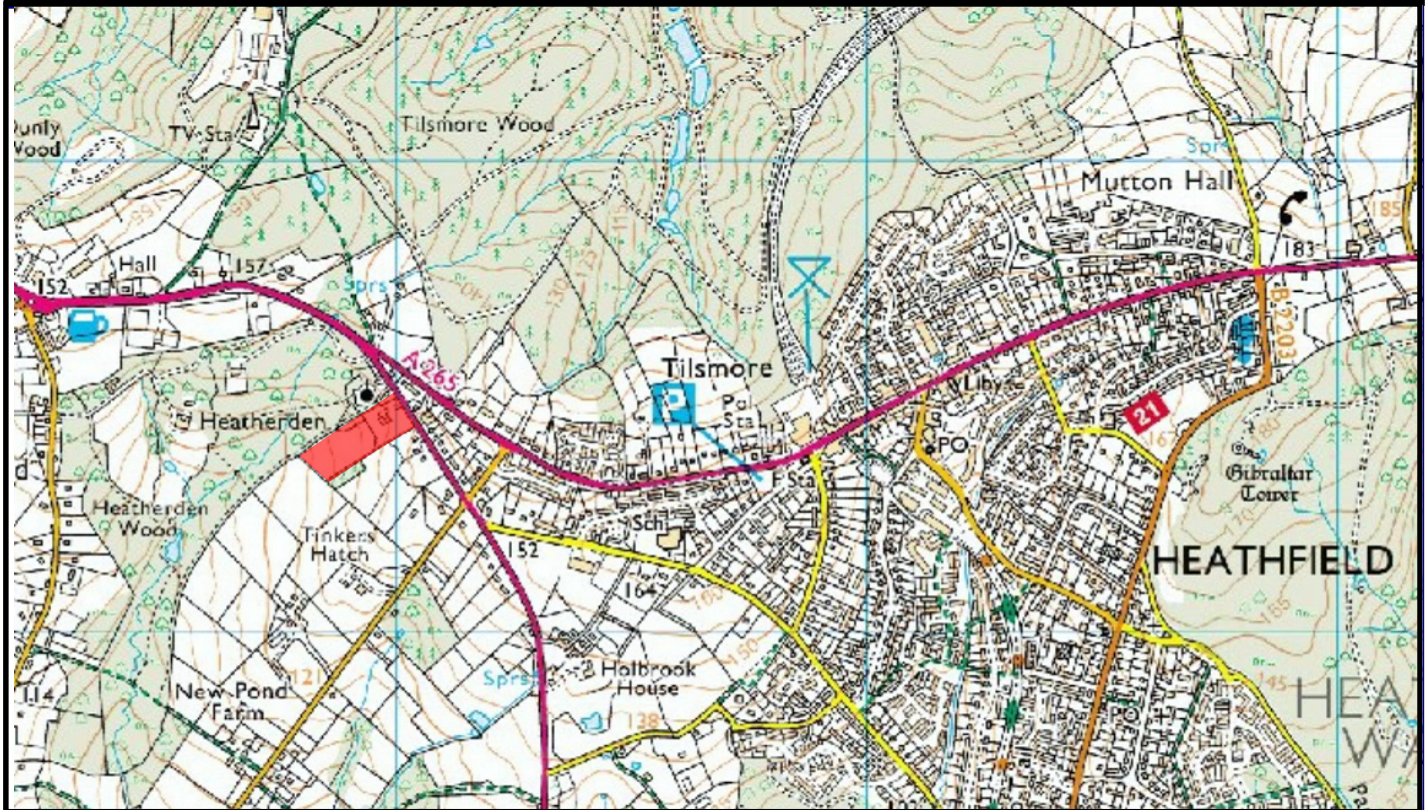


Fig 8 Heathfield Old Common. General location map

EAST SUSSEX HISTORIC ENVIRONMENT RECORD.
 OLD COMMON, HEATHFIELD

HER POINT RECORDS

MonUID	RecordType	Name	MonType
MES26177	BLD	Olives Farm, Cross in Hand : C19 Oasthouse	BUILDING; OASTHOUSE
MES26178	BLD	Olives Farm, Cross in Hand : PM Farmstead	FARMSTEAD
MES26179	BLD	Woodcote, Back Lane : C19 building	BUILDING
MES33620	BLD	Pook Reed, Pook Lane : C19 Building	BUILDING; BUNGALOW; CHIMNEY
MES34334	BLD	Maynard Gate : C18 buildings	BUILDING
MES34334	BLD	Maynard Gate : C18 buildings	BUILDING
MES34336	BLD	Fairfield Cottage : C18 building	BUILDING
MES4302	FS	New Pond Hill: Roman coin	FINDSPOT
MES21613	MON	Tilsmore Wood: Rom Bloomery (site of)	BLOOMERY
MES21704	MON	Pook Reed: Medieval Farm	FARMSTEAD
MES26033	MON	Pook Reed : C19 building	BUILDING
MES26033	MON	Pook Reed : C19 building	BUILDING
MES26033	MON	Pook Reed : C19 building	BUILDING
MES30313	MON	Outfarm north of Cross in Hand, Heathfield And Waldron : C19 Outfarm (site of)	OUTFARM
MES30314	MON	Woodbine Farm, Heathfield And Waldron : C19 Farmstead	FARMSTEAD
MES30315	MON	Newpond Farm, Heathfield And Waldron : C19 Farmstead	FARMSTEAD
MES30316	MON	Homestalls, Heathfield And Waldron : C19 Farmstead	FARMSTEAD
MES30334	MON	Well Cottage, Heathfield And Waldron : C19 Farmstead	FARMSTEAD
MES33686	MON	Tilsmore Farm, Heathfield : C19 farm	FARM
MES33687	MON	Snatchells Farm, Heathfield : C18 farm	FARM
MES33892	MON	Land adjoining Tilsmore Lodge, Heathfield : Possible Field Boundary	FIELD BOUNDARY
MES34335	MON	NE of Cross In Hand : C18 buildings	BUILDING
MES34394	MON	Thorns Farm: C18 buildings (Site of)	BUILDING
MES34394	MON	Thorns Farm: C18 buildings (Site of)	BUILDING
MES34394	MON	Thorns Farm: C18 buildings (Site of)	BUILDING

HER LINEAR RECORDS

MonUID	RecordType	Name	MonType
MES33523	MON	Polegate - Eridge Railway : C19 Railway (site of)	RAILWAY
MES33523	MON	Polegate - Eridge Railway : C19 Railway (site of)	RAILWAY
MES33620	BLD	Pook Reed, Pook Lane : C19 Building	BUILDING; BUNGALOW; CHIMNEY

EVENTS

EVENTs POINT RECORDS

EvUID	Name	EventTypes
EES17644	Pook Reed, Pook Lane : Historic Building Record	BUILDING SURVEY
EES17650	Tilsmore Lodge, Heathfield : Desk-Based Assessment	DESK BASED ASSESSMENT
EES17683	Pook Reed, Pook Reed Lane, Heathfield : Watching Brief	WATCHING BRIEF
EES17786	Land adjoining Tilsmore Lodge, Heathfield : Geophysical Survey	GEOPHYSICAL SURVEY
EES9215	Flat Farm: Excavation	EXCAVATION

EVENTS AREA RECORDS

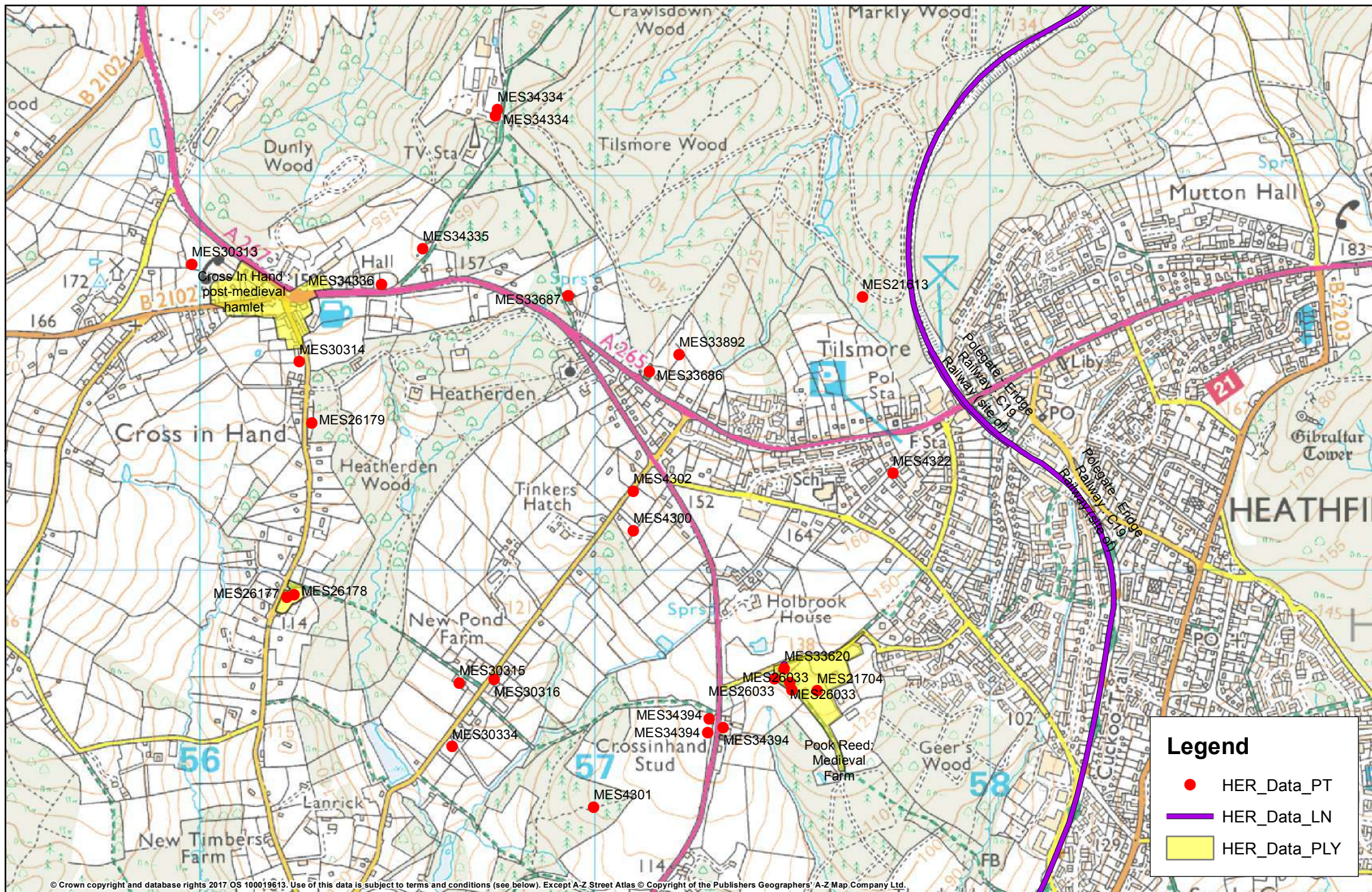
EvUID	Name	EventTypes
EES17668	Heathfield : Extensive Urban Survey	DESK BASED ASSESSMENT
EES17786	Land adjoining Tilsmore Lodge, Heathfield : Geophysical Survey	GEOPHYSICAL SURVEY
EES17786	Land adjoining Tilsmore Lodge, Heathfield : Geophysical Survey	GEOPHYSICAL SURVEY

EVENTS LINEAR RECORDS

EvUID	Name	EventTypes
EES17683	Pook Reed, Pook Reed Lane, Heathfield : Watching Brief	WATCHING BRIEF

ARCHAEOLOGY NOTIFICATION AREA

DesigUID	Name	Tier	Descriptio
DES11015	Pook Reed	2	Medieval and post-medieval farm complex



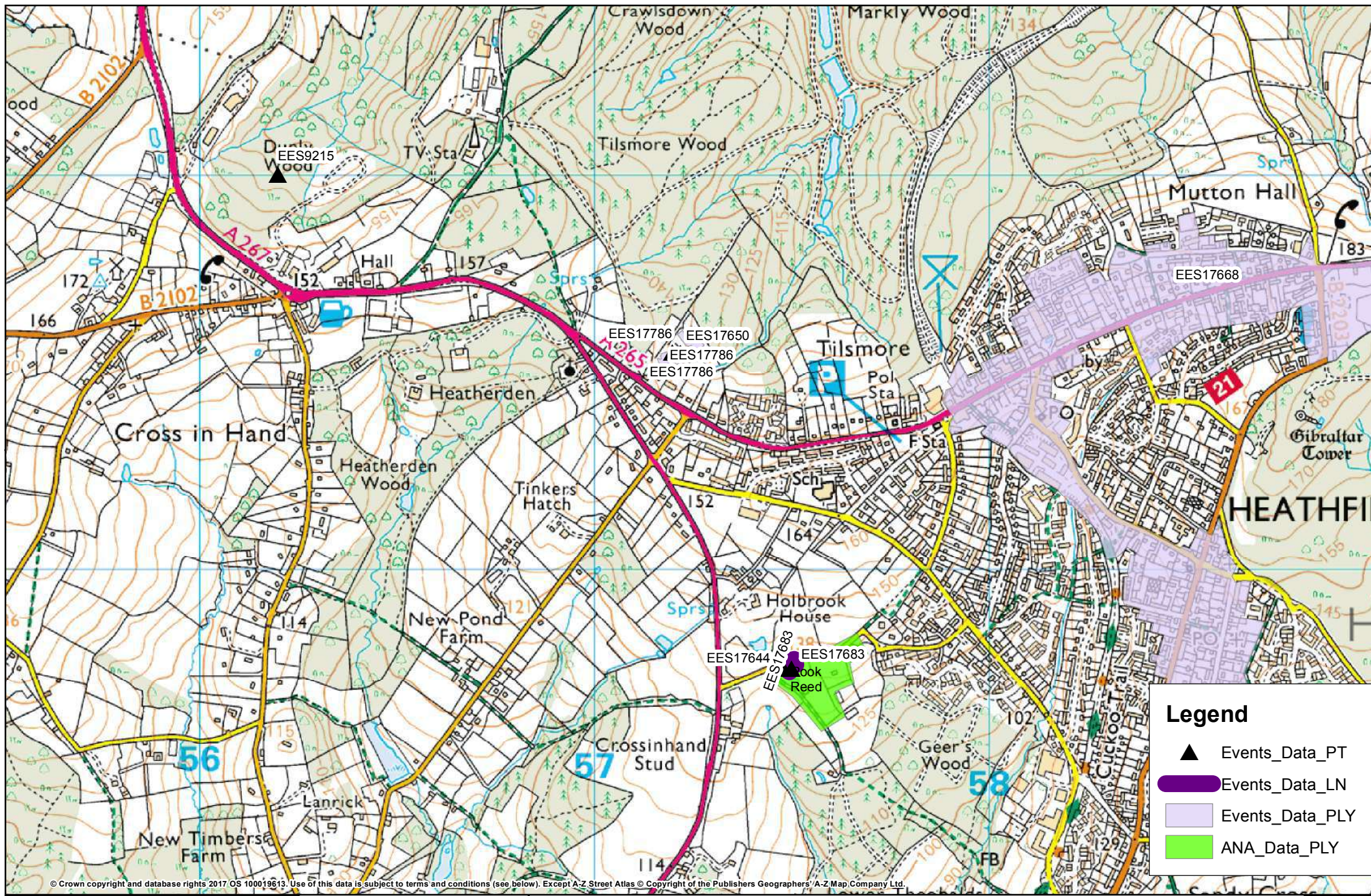
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Map showing HER Events within a 1km radius of 'Old Common', Little London Road Heathfield,





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Map showing HER Events within a 1km radius of 'Old Common', Little London Road, Heathfield



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