Northamptonshire County Council

Northamptonshire Archaeology

Archaeological watching brief of test pits along the A14 improvement Ellington to Fen Ditton Cambridgeshire

August-September 2008

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REGISTERED IFA ORGANISATION

PROJECT DETAILS		
Project name	An archaeological watching brief of test pits along the A14 improvement Ellington to Fen Ditton Cambridgeshire August-September 2008	
Short description (250 words maximum)	Northamptonshire Archaeology was commissioned by Atkins Heritage to carry out an archaeological watching brief during the excavation of test pits along the proposed route of the A14 Ellington to Fen Ditton road improvement scheme in Cambridgeshire. The excavation of a total of 107 test pits were monitored. Although a number of archaeological sites of high potential have been identified in preceding survey work, there were very few archaeological features in the test pits. A ditch was revealed in test pit 3261 and a feature filled with modern debris in test pit 3167. This may, in part, be because the majority of the test pits were located away from the areas of highest archaeological potential.	
Project type (e.g. DBA, field evaluation etc)	Watching brief	
Site status (none, NT, SAM etc)	None	
Previous work (SMR numbers etc)	None	
Current land use	Arable and Pasture	
Future work (yes, no, unknown)	Unknown	
Monument type/period		
Significant finds (artefact type and period)		
PROJECT LOCATION		
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Study area (sq.m or ha)		
OS Easting & Northing (use grid sq. letter code)	TL517723 271755 to TL 548620 261403	
Height OD		
PROJECT CREATORS		
Organisation	Northamptonshire Archaeology	
Project brief originator	Northamptonshire Archaeology	
Project Design originator	Northamptonshire Archaeology	
Director/Supervisor	Mark Patenall	
Project Manager	Andy Mudd	
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QUALITY CONTROL

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ARCHAEOLOGICAL WATCHING BRIEF OF TEST PITS ALONG THE A14 IMPROVEMENT ELLINGTON TO FEN DITTON CAMBRIDGESHIRE AUGUST – SEPTEMBER 2008

Abstract

Northamptonshire Archaeology was commissioned by Atkins Heritage to carry out an archaeological watching brief during the excavation of test pits along the proposed route of the A14 Ellington to Fen Ditton road improvement scheme in Cambridgeshire. The excavation of a total of 104 test pits were monitored. Although a number of archaeological sites of high potential have been identified in preceding survey work, there were very few archaeological features in the test pits. A ditch was revealed in test pit 3261 and a feature filled with modern debris in test pit 3167. This may, in part, be because the majority of the test pits were located away from the areas of highest archaeological potential.

INTRODUCTION

Northamptonshire Archaeology was commissioned by Atkins Heritage to carry out an archaeological watching brief during the excavation of test pits along the proposed route of the A14 Ellington to Fen Ditton road improvement scheme in Cambridgeshire. The route extends for *c*43km, from the A14 west of the village of Ellington (NGR: 518630, 271870) southwards to a point just west of the A1 before turning eastwards from the junction of the A1 and Buckden/Brampton Roads to continue across the Great Ouse, the East Coast Mainline Railway and the A1198 at Godmanchester. The route then continues eastwards and to the south of the present A14 until it converges with it to the east of Fenstanton. It then follows the present A14 to terminate at Fen Ditton.

Topography and geology

The western part of the route comprised solid deposits of Oxford Clay overlain by glacial and post-glacial drift of principally Boulder Clay and gravels. The route between the A1 and Godmanchester encountered alluvium and gravel terraces deposited in the Great Ouse valley. The route towards Cambridge the geology changes to Amptill Clay, Kimmeridge Clay and Corallian formations. The geology of the area around Cambridge and Fen Ditton is dominated by Upper Greensand and Gault Clay (http://www.bgs.ac.uk).

The route transverses undulating countryside of mostly arable farmland as well as several pasture fields with preserved remnants of medieval ridge and furrow field cultivation. Test pits were also excavated on several traffic islands and the Cambridge service area.

ARCHAEOLOGICAL BACKGROUND

Most of the following information has been taken from the Cultural Heritage section of the Scheme Assessment Report (Allen and Clark 2006). Extensive archaeological fieldwork has been undertaken along the A14 improvement areas with finds from the Palaeolithic, Mesolithic and Neolithic recovered from Hemingford Grey, Buckden, Fenstanton, Slatehall Farm, Brampton and Godmanchester areas.

The Bronze Age is sparse for this area, being more evident on the chalk hills to the south-east of the county. Iron Age farmsteads and settlements occur at Longstanton, Brampton and Buckden, with a hillfort at Arbury Camp.

This area is dominated by the forts and subsequent small towns of Godmanchester and Cambridge in the Roman period. Smaller settlement sites and farmsteads have been identified across the area with a number from along the course of the A14. A major road linked Godmanchester and Cambridge along the approximate route of the A14; Ermine Street, now the A1198, passes through Godmanchester and another possible road links Godmanchester to Sandy in Bedfordshire to the south-west.

Saxon finds are sparse in this area, with the only significant activity being the chapel and cemetery at Girton. During this period some of the Roman settlements and farmsteads were re-occupied or, as with Cambridge, had continued occupation.

The Danish invasion and way of life influenced settlement development, grouping together farmhouses to cultivate a collective area of land. With connecting roads and trackways from each settlement they were the blueprint of the later medieval villages around the region.

Castles were built at both Godmanchester and Cambridge during the medieval period. Possible moated manors have been noted at both Fenstanton and Hemingford Abbots. Biggin Abbey, situated in the parish of Fen Ditton, was constructed in the 14th century and was the residence of the Bishops of Ely.

A large number of ridge and furrow earthworks have been noted in the area. These are the remnants of the medieval field-systems. Deserted medieval settlements or reduced areas of occupation caused by the plague during the 14th century are also known, as at Houghton and Lolworth.

The post-medieval period saw population increases, which resulted in town and village expansion and the creation of new villages such as Bar Hill and Milton. Second World War pillboxes can be seen around Cambridge which formed part of a defensive line from Bristol to the River Welland in Cambridgeshire. The road system was upgraded in the 20th century with construction of the M11 and A14 improvements.

An aerial photographic survey was undertaken in 2003 (Palmer 2003). The survey examined at least 200m each side of the proposed routes of some 30km of the proposed A14 improvements between Ellington (TL 1772) and Fen Ditton (TL 4961) in order to map any archaeological and natural features. The survey revealed settlements, enclosures, pit and ditch alignments, field boundaries and medieval ridge and furrow. Geological features were also observed.

A geophysical survey was also undertaken along the majority of *c*27km of the western section which crossed undulating agricultural land from Ellington to just north of the A14-M11 interchange (Preconstruct Archaeology 2006). The survey detected a number of archaeological sites, including probable settlement activity to the immediate east of the East Coast Main Line Railway at Offord Cluny. The survey also detected the residual traces of remnant ridge and furrow along the route as well as former field boundaries present on the First Edition Ordnance Survey map.

OBJECTIVES AND METHODOLOGY

Excavation methodology

The topsoil and subsoil was stripped under the supervision of a Costain engineer using a JCB excavator fitted with a 1m bladed ditching bucket. All archaeological features and finds encountered during excavation were recorded using Pro–Forma sheets and sections were drawn at 1:10 scale in accordance with Northamptonshire Archaeology recording procedures.

A full photographic record comprising both 35mm monochrome negatives, and colour transparencies was maintained, and was supplemented with digital photographs.

All works were carried out in accordance with the IFA *Code of Conduct* (1995, revised 2002), the *Standard and Guidance for Archaeological Field Evaluation* (IFA 1994, revised 2001) and *Policy & Guidance for Archaeological Fieldwork Projects in Northamptonshire* (NCCNH 1995). All procedures complied with the Northamptonshire County Council Health and Safety provisions and Northamptonshire Archaeology Health and Safety at Work Guidelines (NA 2003).

EXCAVATION EVIDENCE

The excavation of 104 test pits was monitored. Some further test pits were excavated without archaeological supervision ([3078, 3169, 4118, 4130, 4129, 4136, 4198, 4210, 4202, 4215, 5023 and 5069]). The pits were on average 1m wide by 2m long and a maximum of 4m deep, the size being controlled by the Costain engineer. A number of the pits were excavated through preserved ridge and furrow earthworks ([3088 (Plate 4), 3217, 3219, 3224, 3227] Figs 2 and 3). The remains of ploughed-out ridge and furrow were observed during excavation of several test pits in a further field ([3239, 3263, 3264, 3267, 3268]; Fig 3).

No archaeological features or modern disturbance was revealed in 97 of the test pits, with only the natural geology, subsoil and topsoil observed. Three test pits had redeposited topsoil and made ground overlaying the natural substrate, these were on traffic islands or the Cambridge service area ([TP 4076 (Fig 3), TP 4117, and TP 4173]; (Fig 4)). TP 5058 was heavily disturbed by modern debris and service pipes (Fig 5).

Three of the test pits revealed features ([TP 3167, TP 3261 and TP 4092]; Fig 3). A cut was observed in test pit 3167 and was approximately 5m wide by 1.5m deep. The fills at the base of the feature contained modern building debris, including tile, and burnt wood (Plate 1).

TP 3261 revealed a possible linear feature aligned east to west, this consisted of two cuts ([326105] and [326107]). The most recent feature ([326105]) was cut through the subsoil and had 45° slightly concave sides and a slightly convex base which had a stony clay loam fill. This cut the stony, orange brown clay primary fill of [326107] which had a steep-sided U-shaped profile. No dating evidence was present from either feature, but since the most recent feature cut through the subsoil it is possible that both features are historically recent and may relate to land drainage of some kind (Fig 6, Section 1 and Plate 2).

One side of a feature with a concave side and base was found within TP 4092 (Fig 3, Plate 3). The feature was more than 1.03m wide and a 0.63m deep. The fill comprised yellow brown silty clay with frequent small stones and brick fragments. This was overlain by a thin re-deposited layer of blue grey clay 0.12m thick which in turn was overlain by the topsoil. The feature may represent the base of a furrow.

THE FINDS

The topsoil in TP 4058 produced one flint flake. This was translucent grey brown with a partial whitish cortex remaining on the dorsal and one lateral edge. Several flakes were also removed from the dorsal surface. No reworking of the edges was evident and it had been plough damaged. A Neolithic to Bronze Age date seems probable.

Three fragments of *c*18th-century handmade brick was recovered from the subsoil of TP 3201. It was fired to a reddish brown with a light grey core. It had a very sandy fabric with coarse flint and chalk inclusions.

Finds were sparse throughout the test pit excavations, with abraded Victorian and possibly one sherd of Roman pottery recovered from the topsoil of TP 3123 (Fig 2) and *c*18th to 20th-century domestic refuse noted on the surfaces of ploughed fields, probably due to rubbish disposal from the villages in these periods.

DISCUSSION

The test pits identified areas of remnant ridge and furrow already picked up through aerial photograph and geophysical surveys. The below-ground remains of ridge and furrow were identified in a further field. Although the preceding surveys had identified a number of archaeological sites, the test pits were either not located within those specific locations or appeared to have been sited within archaeologically 'empty' areas.

BIBLIOGRAPHY

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Palmer, R, 2003 *Aerial photographic survey, A14 Improvement Ellington (TL 1772) to Fen Ditton (TL4961) Cambridgeshire*, Air Photo Services Report No: 2003/16

Pre-Construct Geophysics 2006 *A geophysical survey of the proposed route of the A14 between Ellington and Fen Ditton, Cambridgeshire*

Northamptonshire Archaeology
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APPENDIX A1: SITE DATA

Test Pits	Context	Deposit Type	Description	Finds
3002	Topsoil		Firm brown sandy clay loam with occasional stones 0.3m thick	
	Natural		Firm yellow brown sandy clay with occasional stones	
3007	Topsoil		Firm brown sandy clay with occasional stones 0.3m thick	
	Natural		Firm orange brown sandy clay with occasional stones	
3013	Topsoil		Firm dark grey brown sandy clay loam with frequent small stones 0.29m thick	
	Subsoil		Firm orange brown sandy clay with gravel lenses 0.2m thick	
	Natural		Firm orange brown sandy gravels	
3018	Topsoil		Firm dark brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm orange brown sandy clay with occasional stones 0.08m thick	
	Natural		Firm orange brown sandy clay with gravel lenses	
3022	Topsoil		Firm dark brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm yellow to orange brown clay with frequent stones 0.3m thick	
	Natural		Firm orange brown to grey clay with occasional stones	
3025	Topsoil		Firm dark brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm yellow to orange brown clay with frequent stones 0.3m thick	
	Natural		Firm orange brown to grey clay with occasional stones	
3030	Topsoil		Firm brown clay loam with occasional stones 0.5m thick	
	Natural		Firm yellow clay with occasional stones	
3035	Topsoil		Firm brown clay loam with occasional stones 0.5m thick	
	Natural		Firm yellow clay with occasional stones	
3041	Topsoil		Firm mid grey brown sandy clay loam with frequent stones 0.3m thick	
	Natural		Firm orange brown sandy gravel with clay	
3044	Topsoil		Firm mid grey brown sandy clay loam with frequent stones 0.3m thick	
	Natural		Firm orange brown sandy gravel with clay	
3049	Topsoil		Firm mid grey brown sandy clay loam with frequent stones 0.3m thick	
	Subsoil		Firm orange brown sandy clay with occasional stones 0.2m thick	
	Natural		Firm orange brown sandy gravel with clay lenses	
3051	Topsoil		Firm mid grey brown sandy clay loam with frequent stones 0.3m thick	
	Subsoil		Firm orange brown sandy clay with occasional stones 0.3m thick	
	Natural		Firm orange brown sandy gravel with clay lenses	
3056	Topsoil		Firm grey brown sandy clay loam with frequent stones 0.3m thick	
	Natural		Firm orange brown sandy clay with gravels	
3057	Topsoil		Firm grey brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm orange brown sandy clay with occasional stones 0.4m thick	
	Natural		Firm orange brown sand and gravel with clay lenses	
3058	Topsoil		Firm dark greyish brown sandy loam with frequent stones 0.27m thick	
	Natural		Firm orange brown sand with gravel lenses	
3060	Topsoil		Firm brown sandy clay loam with frequent stones 0.35m thick	
	Natural		Firm orange brown sandy clay with gravel lenses	
3061	Topsoil		Firm brown sandy clay loam with frequent stones 0.35m thick	
	Natural		Firm orange brown sandy clay with gravel lenses	
3063	Topsoil		Firm brown sandy clay loam with frequent stones 0.35m thick	
	Natural		Firm orange brown sandy clay with gravel lenses	
3064	Topsoil		Firm brown sandy clay loam with frequent stones 0.35m thick	
	Natural		Firm orange brown sandy clay with gravel lenses	
3067	Topsoil		Firm brown sandy clay loam with frequent stones 0.25m thick	
	Natural		Firm orange brown sandy gravel with yellow brown clay	
3070	Topsoil		Firm grey brown sandy clay loam with frequent stones 0.3m thick	

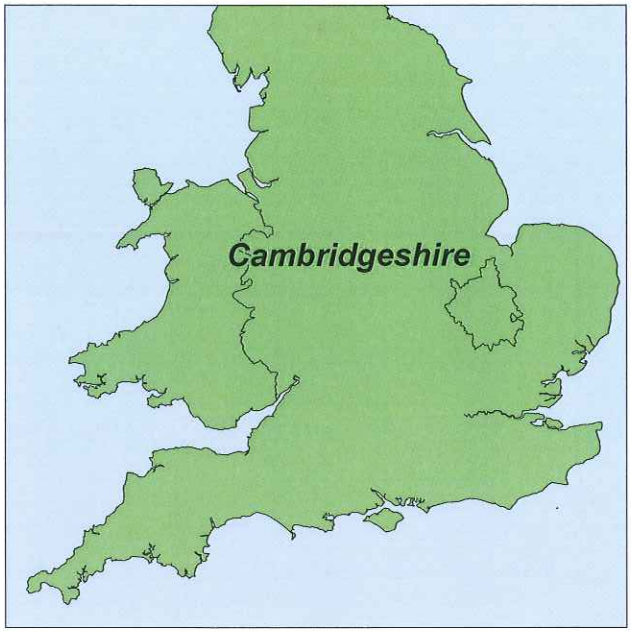
Test Pits	Context	Deposit Type	Description	Finds
	Subsoil		Firm orange brown sandy clay with gravels 0.25m thick. Possible plough interface?	
	Natural		Firm orange brown sandy clay with gravels	
3071	Topsoil		Firm brown sandy clay with frequent stones 0.25m thick	
	Natural		Firm orange brown sandy gravel with yellow brown clay	
3072	Topsoil		Firm mid grey clay loam with frequent stones 0.28m thick	
	Subsoil		Firm brown clay loam with lenses of orange brown sand and occasional small stones 0.08m thick, plough horizon?	
	Natural		Firm orange brown sandy clay with occasional stones	
3074	Topsoil		Firm brown clay loam with frequent stones 0.25m thick	
	Natural		Firm sandy gravel with lenses of yellow brown clay	
3083	Topsoil		Firm grey brown sandy loam with frequent stones 0.27m thick	
	Natural		Firm orange brown sand with gravel lenses	
3088	Topsoil	Ridge and furrow	Firm sandy clay loam with occasional stones 0.23m thick	
	Subsoil		Firm orange brown sandy clay with occasional stones 0.34m thick	
	Natural		Firm orange brown sandy clay with gravels	
3103	Topsoil		Firm dark grey sandy clay loam with frequent stones 0.34m thick	
	Natural		Firm orange brown sandy clay with frequent stones	
3111	Topsoil		Firm dark mid grey brown silty clay loam with frequent stones 0.3m thick	
	Subsoil		Firm orange brown to grey brown sandy silt with frequent stones 0.15m thick	
	Natural		Firm mid grey clay with stones and chalk nodules	
3114	Topsoil		Firm grey brown clay loam with occasional stones 0.35m thick	
	Subsoil		Firm brown to orange brown sandy clay with occasional stones 0.28m thick	
	Natural		Firm orange brown sandy clay with gravel and chalk	
3118	Topsoil		Firm mid grey brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm brown clay loam with frequent stones 0.14m thick	
	Natural		Firm light grey clay with orange brown sandy mottling and frequent stones	
3123	Topsoil		Firm dark grey brown clay loam with frequent stones 0.44m thick	Victorian and ?Roman pottery
	Subsoil		Firm orange brown sandy clay with occasional stones 0.12m thick	
	Natural		Firm light grey clay with orange sands and chalk	
3131	Topsoil		Firm grey brown clay loam with occasional stones 0.33m thick	
	Subsoil		Firm brown sandy clay with occasional stones 0.3m thick	
	Natural		Firm yellow brown sandy clay with frequent stones	
3133	Topsoil		Firm grey brown clay loam with occasional stones 0.3m thick	
	Subsoil		Firm brown sandy clay with occasional stones 0.34m thick	
	Natural		Firm yellow brown sandy clay with frequent stones	
3136	Topsoil		Firm grey brown clay loam with occasional stones 0.28m thick	
	Subsoil		Firm brown sandy clay with occasional stones 0.34m thick	
	Natural		Firm yellow brown sandy clay with frequent stones	
3148	Topsoil		Firm brown clay loam with frequent stones 0.25m thick	
	Natural		Firm yellow brown sandy clay with frequent stones	
3167	Topsoil	Fill	Firm grey brown clay loam containing modern debris approximately 5m wide by 1.5m deep	Modern feature
3168	Topsoil		Firm dark brown clay loam with frequent stones 0.2m thick	
	Subsoil		Firm mid grey brown clay with occasional stones 0.8m thick	
	Natural		Firm pale yellow brown to white silty clay mottled with orange brown clay	
3172	Topsoil		Firm dark brown silty clay loam with occasional stones 0.3m thick	
	Subsoil		Firm did orange brown sandy silt with occasional stones 0.2m thick	
	Natural		Firm orange brown sandy gravel with clay lenses	
3174	Topsoil		Firm dark brown clay loam with frequent stones 0.28m thick	
	Subsoil		Firm mid brown clay 0.3m thick	
	Natural		Firm dark orange brown sandy gravel	

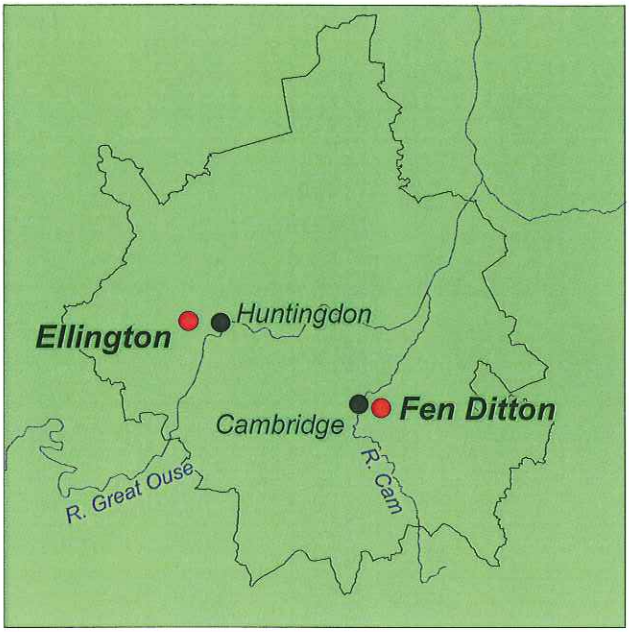
Test Pits	Context	Deposit Type	Description	Finds
3176	Topsoil		Firm dark grey brown silty clay loam with frequent stones 0.25m thick	
	Subsoil		Firm did brown clay loam with frequent stones 0.15m thick	
	Natural		Firm yellowy orange sandy gravel and chalk pebbles	
3179	Topsoil		Firm dark grey brown clay loam with frequent stones 0.3m thick	
	Natural		Firm orange brown sandy gravel	
3185	Topsoil		Firm grey brown sandy clay loam with frequent stones 0.24m thick	
	Subsoil		Firm mid orange brown sandy clay with frequent stones 0.25m thick	
	Natural		Firm orange brown sandy gravel	
3189	Topsoil		Firm dark grey brown clay loam with frequent stones 0.32m thick	
	Subsoil		Firm mid orange brown sandy clay with frequent stones 0.25m thick	
	Natural		Firm light orange brown gravels	
3191	Topsoil		Firm dark brown silty clay loam with occasional stones 0.3m thick	
	Subsoil		Firm light orange brown sandy silt with frequent gravel 0.4m thick	
	Natural		Light orange brown sandy gravel with clay lenses	
3194	Topsoil		Firm dark brown silty clay loam with occasional stones 0.35m thick	
	Subsoil		Firm light orange brown sandy silt with frequent gravel 0.4m thick	
	Natural		Light orange brown sandy gravel with clay lenses	
3197	Topsoil		Firm dark brown silty clay loam with occasional stones 0.3m thick	
	Subsoil		Firm light orange brown sandy silt with frequent gravel 0.2m thick	
	Natural		Light orange brown sandy gravel with clay lenses	
3201	Topsoil		Firm mid grey clay loam with occasional stones 0.3m thick	
	Subsoil		Firm brown sandy clay with frequent stones 0.42m thick	*c*18th century brick
	Natural		Firm brown clay with frequent stones	
3204	Topsoil		Firm mid grey clay loam with occasional stones 0.3m thick	
	Subsoil		Firm brown sandy clay with frequent stones 0.25m thick	
	Natural		Firm orange brown sand and gravel	
3207	Topsoil		Firm mid grey clay loam with occasional stones 0.3m thick	
	Subsoil		Firm brown sandy clay with frequent stones 0.28m thick	
	Natural		Firm blue grey clay with lenses of sand and gravel	
3212	Topsoil		Firm grey brown clay loam with occasional stones 0.3m thick	
	Subsoil		Firm orange brown sandy clay with occasional stones 0.25m thick	
	Natural		Firm grey clay with lenses of sandy gravel	
3213	Topsoil		Firm dark grey clay loam with occasional stones 0.34m thick	
	Subsoil		Firm yellowy brown sandy clay with occasional stones 0.34m thick	
	Natural		Firm brown to yellowy brown sandy clay with occasional stones	
3217	Topsoil		Firm brown clay loam with occasional stones 0.25m thick	
	Subsoil	Ridge and furrow	Firm grey brown clay with occasional stones 0.32m thick	
	Natural		Firm grey clay with lenses of gravels	
3219	Topsoil		Firm dark grey brown clay loam with occasional stones 0.5m thick	
	Subsoil	Ridge and furrow	Firm brown sandy clay with occasional stones 0.65m thick	
	Natural		Firm mid grey clay with lenses of gravel	
3223	Topsoil		Firm dark grey clay loam with occasional stones 0.45m thick	
	Natural		Firm orange brown sand with gravels	
3224	Topsoil		Firm grey brown clay loam 0.23m thick	
	Subsoil	Ridge and furrow	Firm brown clay loam with occasional stones 0.42m thick	
	Natural		Firm orange brown sandy clay with lenses of gravel and blue grey clay	
3227	Topsoil		Firm brown clay loam with occasional stones 0.25m thick	
	Subsoil	Ridge and furrow	Firm grey brown clay with occasional stones 0.5m thick	
	Natural		Firm grey clay with lenses of gravels	
3228	Topsoil		Firm brown clay loam with occasional stones 0.35m thick	
	Subsoil		Firm yellowy brown sandy clay with occasional stones 0.35m thick	
	Natural		Firm orange brown sand with lenses of grey clay and gravels	
3239	Topsoil		Firm dark brown clay loam with frequent stones 0.34m thick	

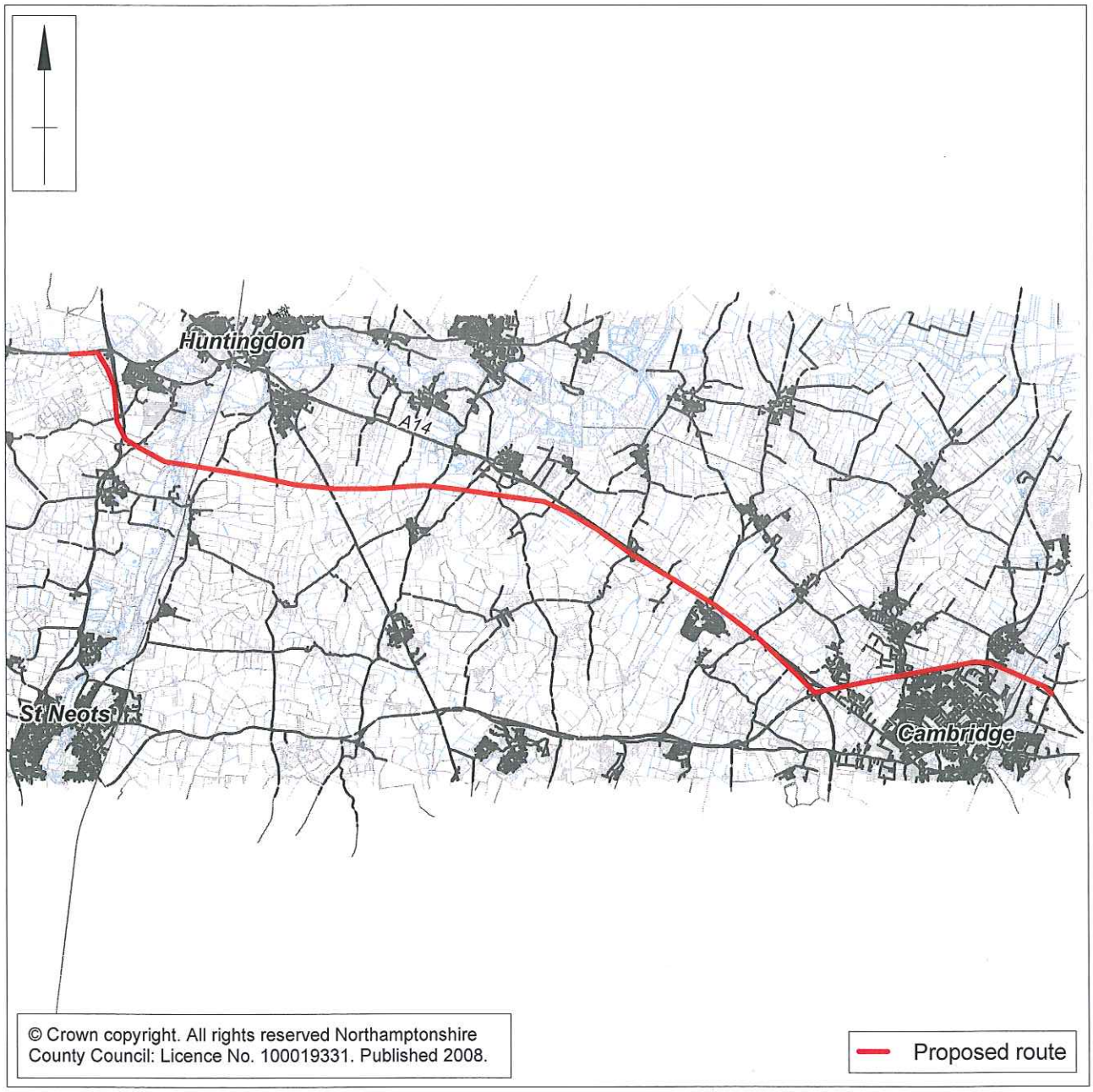
Test Pits	Context	Deposit Type	Description	Finds
	Subsoil	Ridge and furrow	Firm mid orange brown sandy clay with frequent stones 0.44m thick	
	Natural		Firm mid orange brown sandy gravel	
326101	Topsoil		Loose dark brown to black clay loam with frequent stones 0.34m thick	
326102	Subsoil		Firm orange brown sandy clay with occasional stones 0.21m thick	
326103	Natural		Firm orange brown sandy clay with gravels	
326104	Gully	Fill	Firm dark grey brown clay loam with frequent stones and root disturbance, 0.77m wide 0.26m depth	Undated
326105	Gully	Cut	Linear aligned east west approximately 45˚ concave sides and slightly concave base 0.77m wide 0.26m depth	Undated
326106	Gully	Fill	Firm orange brown to grey clay with occasional stones 0.44m wide 0.22m depth	Undated
326107	Gully	Cut	Linear aligned east west approximately 60˚ to 70˚ straight sides with a flat base, 0.44m wide 0.22m depth	Undated
3263	Topsoil		Firm dark brown clay loam with frequent stones 0.34m thick	
	Subsoil	Ridge and furrow	Firm mid orange brown sandy clay with frequent stones 0.21m thick	
	Natural		Firm mid orange brown sandy gravel	
3264	Topsoil		Firm dark brown clay loam with frequent stones 0.26m thick	
	Subsoil	Ridge and furrow	Firm mid orange brown sandy clay with frequent stones 0.20m thick	
	Natural		Firm mid orange brown sandy gravel	
3267	Topsoil		Firm dark brown clay loam with frequent stones 0.35m thick	
	Subsoil	Ridge and furrow	Firm mid orange brown sandy clay with frequent stones 0.20m thick	
	Natural		Firm orange brown sandy gravels with lenses of grey blue clay	
3268	Topsoil	Ridge and furrow	Firm dark brown clay loam with frequent stones 0.34m thick	
	Natural		Firm mid orange brown sandy clay with gravel	
4008	Topsoil		Firm dark grey brown sandy clay loam with frequent stones 0.3m thick	
	Subsoil		Firm mid orange brown sandy loam with frequent stones 0.3m thick	
	Natural		Firm orange brown sandy gravel with grey clay	
4027	Topsoil		Firm dark grey sandy clay loam with frequent stones 0.3m thick	
	Subsoil		Firm mid orange brown sandy clay 0.2m thick	
	Natural		Firm orange brown sandy gravel with grey clay	
4028	Topsoil		Firm grey brown clay loam with occasional stones 0.2m thick	
	Subsoil		Firm brown clay with occasional stones 0.3m thick	
	Natural		Firm grey clay with occasional stones	
4033	Topsoil		Firm dark grey brown sandy clay loam 0.3m thick	
	Subsoil		Firm mid orange brown sandy clay 0.15m thick	
	Natural		Firm orange brown sandy gravel with grey clay	
4037	Topsoil		Firm dark grey brown sandy silt loam with frequent stones 0.3m thick	
	Subsoil		Firm mid orange brown to grey silty clay with occasional stones 0.2m thick	
	Natural		Firm orange brown sandy gravel with grey clay	
4042	Topsoil		Firm grey brown clay loam with occasional stones 0.25m thick	
	Subsoil		Firm brown clay with occasional stones 0.4m thick	
	Natural		Firm grey brown clay with frequent stones and chalk	
4048	Topsoil		Firm mid brown clay loam with occasional stones 0.3m thick	
	Natural		Firm light blue grey clay with orange brown sand lenses	
4052	Topsoil		Firm mid grey clay loam 0.3m thick	
	Natural		Firm light grey brown clay with orange sandy mottling	
4058	Topsoil		Firm dark grey brown clay loam with frequent stones 0.36m thick	Flint blade
	Natural		Firm orange brown gravel with blue grey clay lenses	
4061	Topsoil		Firm grey brown clay loam with frequent stones 0.27m thick	
	Natural		Firm grey brown to orange brown clay with gravel lenses	
4063	Topsoil		Firm mid grey clay loam with occasional stones 0.27m thick	
	Subsoil		Firm brown clay with orange brown sandy mottling 0.3m thick	
	Natural		Firm grey brown clay with lenses of gravel	

Test Pits	Context	Deposit Type	Description	Finds
4067	Topsoil		Firm mid grey clay loam with occasional stones 0.25m thick	
	Subsoil		Firm brown clay with small lenses of gravel 0.5m thick	
	Natural		Firm grey brown clay with lenses of gravel	
4076	Topsoil		Firm mid grey brown clay loam with frequent stones 0.25m thick	
	Made ground		Firm grey / orange brown to blue grey clays with orange brown gravels 0.77m thick, made ground, Cambridge services	
	Natural		Firm blue grey clay with chalk fragments	
4084	Topsoil		Firm dark grey brown clay loam with frequent stones 0.19m thick	
	Subsoil		Firm mid grey brown to orange brown silty clay with frequent stones 0.28m thick	
	Natural		Firm mid grey clay with orange brown gravel lenses	
4092	Topsoil		Firm dark grey brown clay loam with frequent stones 0.22m thick	
	Layer		Firm blue grey clay 0.12m thick	
	Feature	Fill	Firm yellow brown silty clay with occasional stones and brick fragments 0.63m depth, and more than 1.30m wide	Post - medieval
	Feature	Cut	Approximately 45˚ sloping side and concave base 0.63m depth and more than 1.30m wide	Post - medieval
	Natural		Firm mid blue grey clay with chalk fragments	
4097	Topsoil		Firm dark grey brown clay loam with frequent stones 0.29m thick	
	Subsoil		Firm mid orange brown silty clay with frequent stones 0.22m thick	
	Natural		Firm yellow brown to grey clay with frequent chalk fragments	
4103	Topsoil		Firm mid grey brown clay loam with occasional stones 0.29m thick	
	Subsoil		Firm mid orange brown sandy clay with occasional stones 0.19m thick	
	Natural		Firm blue grey to orange brown clay with occasional stones	
4110	Topsoil		Firm dark grey brown clay loam with occasional stones 0.29m thick	
	Subsoil		Firm mid orange to grey brown sandy clay with frequent stones 0.24m thick	
	Natural		Firm orange brown to blue grey sandy clay with gravel lenses	
4117	Made ground		Heavily disturbed with modern debris, concrete, tarmac, broken pipes and mixed soils, 1.5m thick. Traffic roundabout.	
	Natural		Firm grey brown clay with occasional stones	
4134	Topsoil		Firm mid grey brown sandy loam with frequent stones 0.27m thick	
	Natural		Soft orange sand (lower green sand)	
4142	Topsoil		Firm mid grey brown clay loam with occasional stones 0.2m thick	
	Subsoil		Firm mid orange brown sandy clay with occasional stones 0.22m thick	
	Natural		Firm grey brown clay with occasional chalk flecks	
4147	Topsoil		Dark grey loam containing construction debris from nearby road, 0.93m thick	
	Natural		Firm light orange brown clay with frequent stones	
4159	Topsoil		Firm grey brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm yellowy orange brown clay with light grey lenses and occasional stones 0.4m thick	
	Natural		Firm light to mid grey clay with occasional stones, (Gault clay)	
4167	Topsoil		Firm dark grey clay loam with frequent stones 0.29m thick	
	Subsoil		Firm mid grey brown sandy gravely clay with frequent stones and modern rubble, 0.18m thick	
	Natural		Firm mid brown clay with reddish brown sandstones	
4173	Topsoil		Firm grey brown clay with occasional stones 0.25m thick	
	Made ground		Mixed clays, soils and modern rubble, 1.6m thick, road island	
	Natural		Firm dark grey clay with occasional stones	
4175	Topsoil		Firm grey clay loam with occasional stones 0.3m thick	
	Subsoil		Firm yellowy brown clay with occasional stones 0.22m thick	
	Natural		Firm light to mid grey clay with occasional stones	
4177	Topsoil		Firm grey brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm brown clay with occasional stones 0.14m thick	
	Natural		Firm light grey clay with frequent stones (Gault clay)	
4179	Topsoil		Firm grey brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm yellowy brown clay with occasional stones 0.25m thick	
	Natural		Firm light to mid grey clay with occasional stones (Gault clay)	

Test Pits	Context	Deposit Type	Description	Finds
4186	Topsoil		Firm grey brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm yellowy brown clay with occasional stones 0.14m thick	
	Natural		Firm light to mid grey clay with occasional stones (Gault clay)	
4192	Topsoil		Firm grey brown clay loam with frequent stones 0.3m thick	
	Subsoil		Firm yellow brown clay with occasional stones 0.25m thick	
	Natural		Firm light grey clay with occasional stones (Gault clay)	
4216	Topsoil		Firm mid grey brown clay loam with occasional stones 0.1m thick	
	Subsoil		Firm light grey brown silty clay with occasional stones 0.19m thick	
	Natural		Firm light yellow brown to blue grey clay with chalk fragments	
4229	Topsoil		Firm mid grey brown clay loam with occasional stones 0.9m thick	
	Subsoil		Firm mid brown silty clay with frequent stones 0.16m thick	
	Natural		Firm light grey brown clay with frequent stones	
4270	Topsoil		Firm grey clay loam with occasional stones 0.28m thick	
	Natural		Firm grey brown clay with frequent stones and gravel	
4271	Topsoil		Firm grey clay loam with occasional stones 0.28m thick	
	Natural		Firm grey brown clay with frequent stones and gravel	
4272	Topsoil		Firm brown sandy clay loam with occasional stones 0.3m thick	
	Subsoil		Firm orange brown sandy clay with occasional stones 0.3m thick	
	Natural		Firm dark orangey brown sandy clay with limestone fragments	
4279	Topsoil		Firm grey brown clay loam with occasional stones 0.3m thick	
	Subsoil		Firm yellow brown clay with occasional stones 0.22m thick	
	Natural		Firm light to mid grey clay with occasional stones	
5058	Topsoil		Firm dark brown silty clay loam heavily disturbed by modern activity 0.2m thick	
	Subsoil		Firm mid brown sandy silt with gravels 0.18m thick	
	Natural		Orange brown sandy gravels and blue grey clays	
5069	Topsoil		Firm dark brown silty clay loam heavily disturbed by modern activity 0.2m thick	
	Subsoil		Firm mid brown sandy silt with gravels 0.2m thick	
	Natural		Orange brown sandy gravels and blue grey clays	



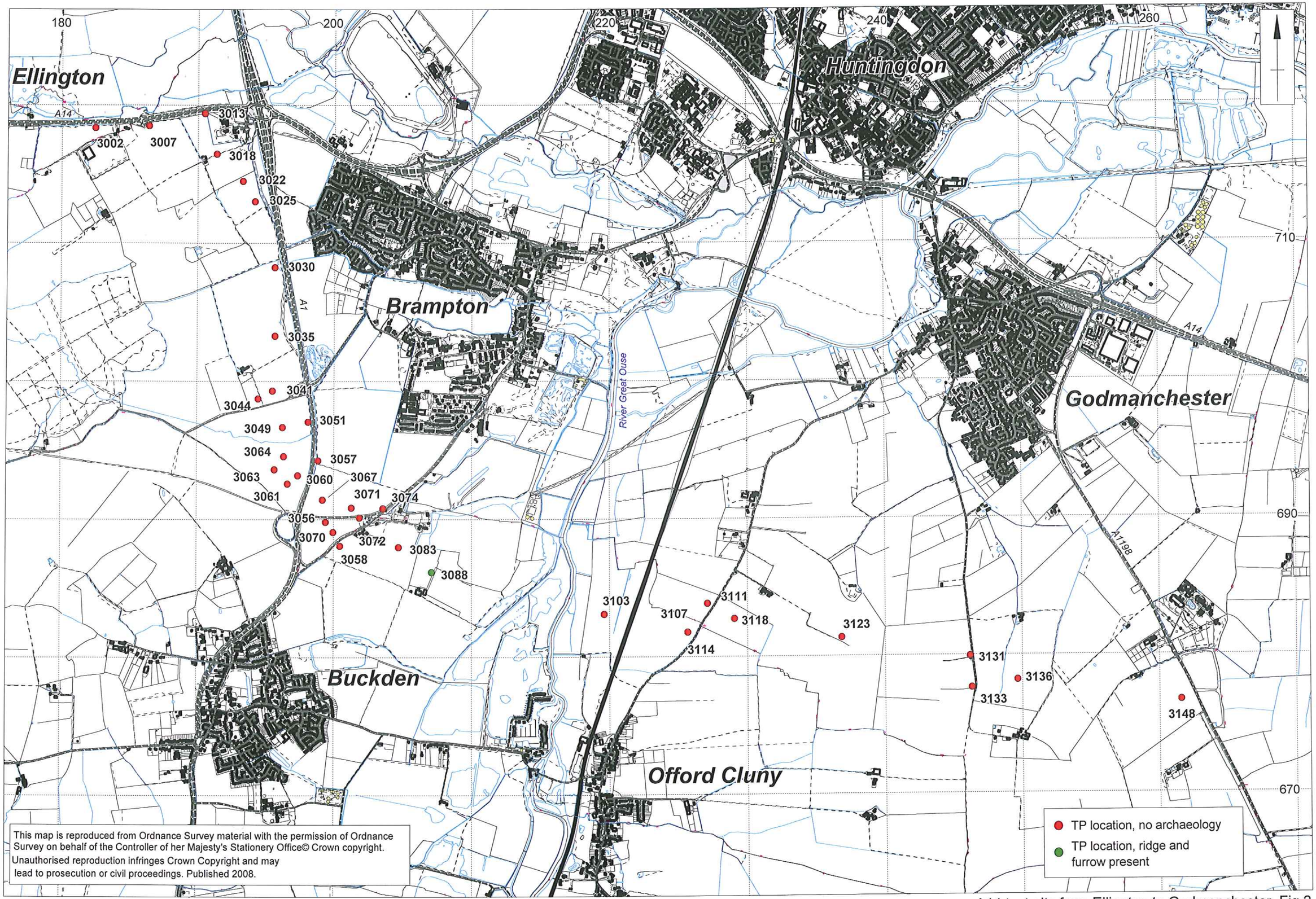




Proposed route

Scale 1:200,000

Site Location Fig 1



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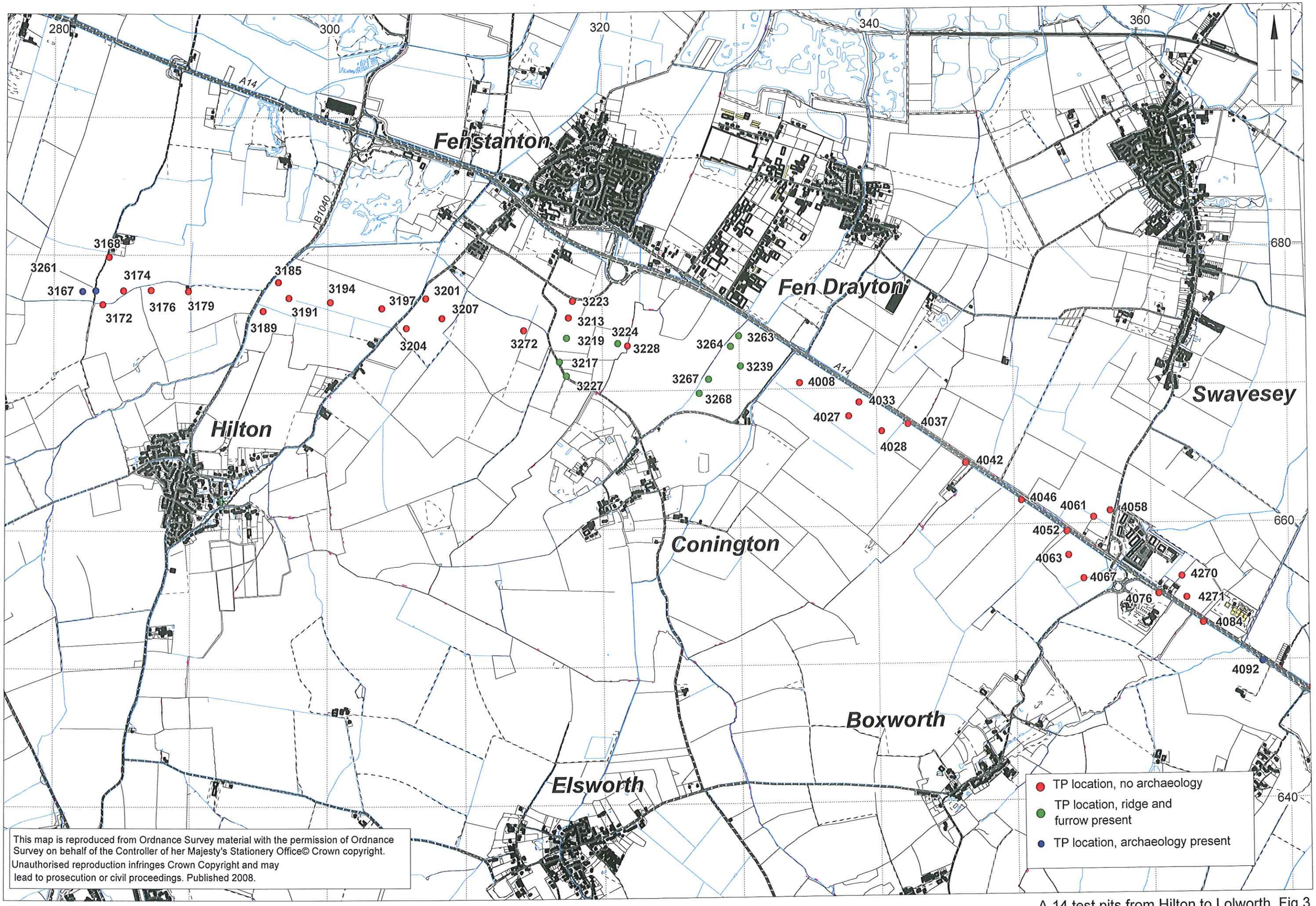
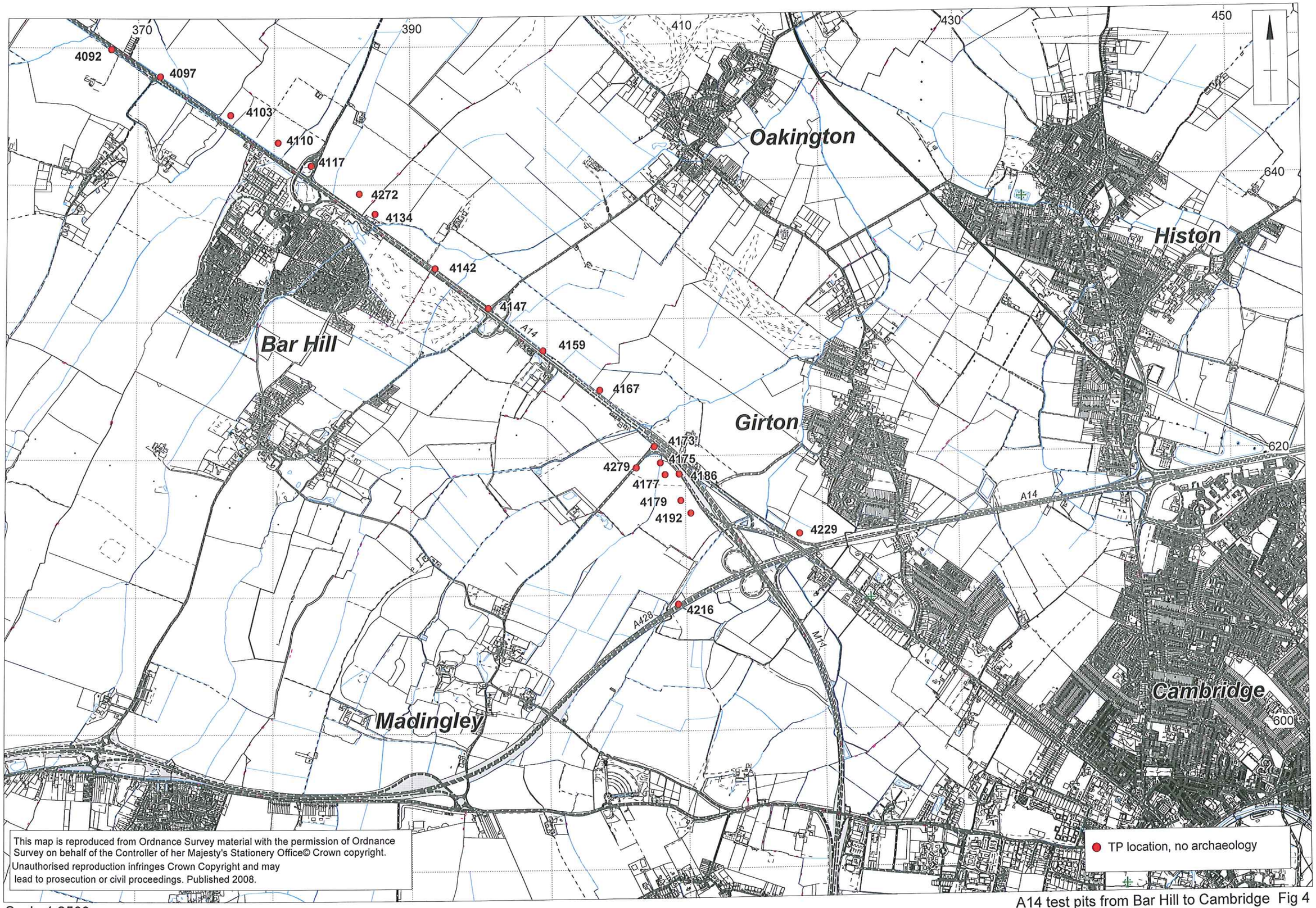
A14 test pits from Ellington to Godmanchester Fig 2



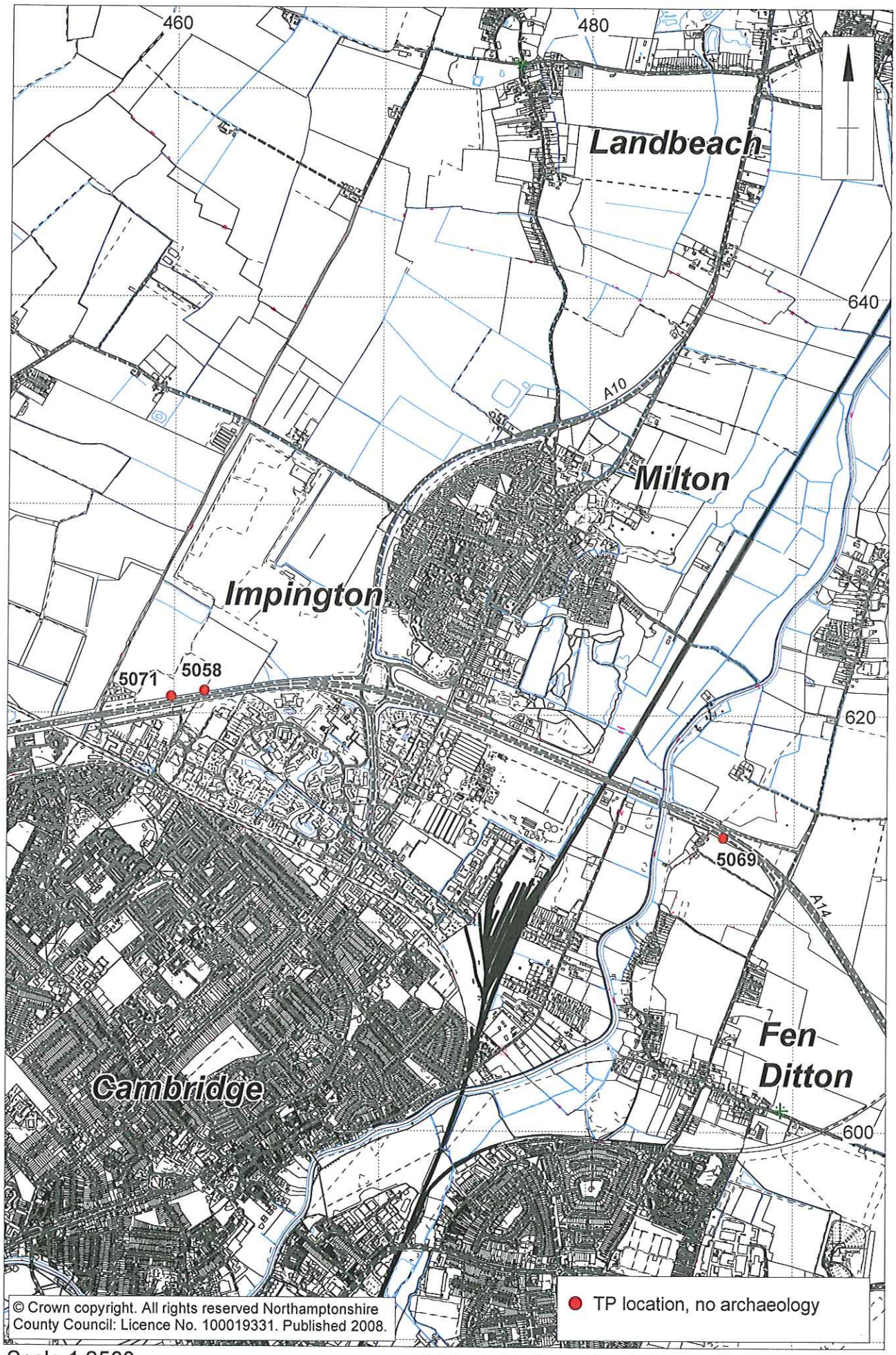
Scale 1:2500

A 14 test pits from Hilton to Lolworth Fig 3



Scale 1:2500

A14 test pits from Bar Hill to Cambridge Fig 4



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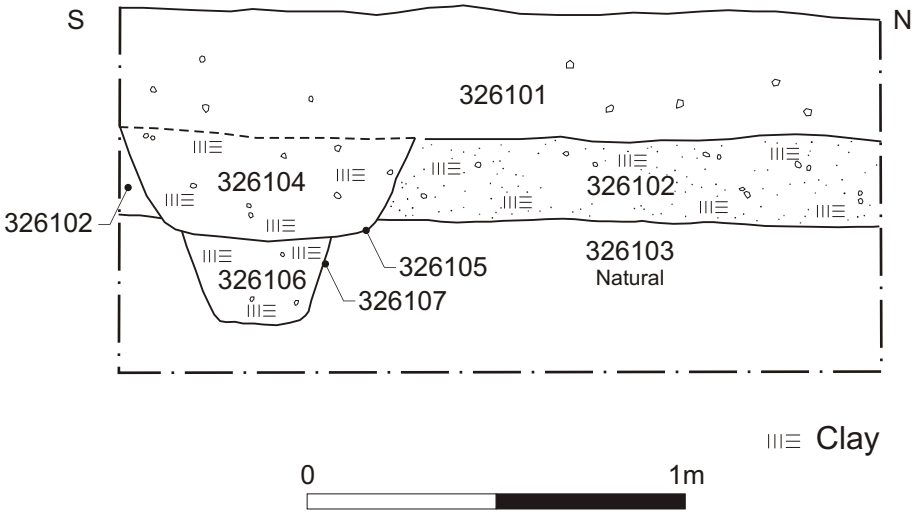
A14 test pits from Cambridge to Fen Ditton Fig 5

Test pit 3261, Section 1



Undated ditches in TP 3261 Fig 6

Plate 1: Test Pit 3167, section looking north

Plate 2: Test Pit 3261, section looking west

Plate 3: Test Pit 4092

Plate 4: Test Pit 3088, prior to excavation looking south, slight ridge and furrow visible

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