HS2 Phase 1 Central Section, Archaeological Works

Trial Trenching at Calvert Depot, Calvert Cutting, Buckinghamshire, Areas 1.1 and 1.2, Site Code 1C17IMDTT - Interim Report

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Revision	Author	Checked by	Approved by	Date Approved	Issued for/Revision details
C01	Ralph Brown	Peter Boyer	I Williamson	16.04.2018	First draft for comment
C02	Ralph Brown	Peter Boyer	I Williamson	29.05.2018	Second draft for acceptance

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1 Summary of works

1.1.1 COPA were commissioned by Fusion to undertake an archaeological trial trench evaluation at Calvert Depot, Calvert Cutting, Buckinghamshire (DES 077-L1) and this interim report concerns two areas within this package, Areas 1.1 and 1.2. The trial trenching addresses an area of land located to the south and south-west of the village of Steeple Claydon, Buckinghamshire (NGR SP 69197 26128) (Figure 1). The Project Plan established the scope, aims, contribution to the Generic Written Scheme of Investigation: Historic Environment Research and Delivery Strategy (GWSI: HERDS) objectives, techniques, deliverable and reporting mechanism for the trial trench investigation (HS2 Doc no. 1EW03-FUS-EV-REP-CS06_CL09-000644 Revision 2). The fieldwork was undertaken between 30 October and 10 November 2017.

1.1.2 The trial trench investigation, comprising thirty-five 30m long machine-excavated trenches, was undertaken on two areas of land at the proposed Calvert Depot, hereafter referred to as the 'Site'. The Site comprised two land parcels comprising Anglian Water and SGN Gas diversions and above ground installation (Area 1.1) and construction of a new WPD electrical substation (Area 1.2). Area 1.1 measured c. 7.4ha and Area 1.2 measured c. 3.2ha. The utilities works are required in advance of construction of the HS2 Phase 1 Infrastructure Maintenance Depot between Calvert and Steeple Claydon.

1.2 Work Rationale

1.2.1 The Site lies within Community Forum Area 13 (Calvert, Steeple Claydon, Twyford and Chetwode), which comprises a single Archaeological Character Area 1, represented by Aylesbury Vale Claylands/Padbury Brook Headwaters. Within this Character Area, archaeological evidence is limited reflecting a lack of archaeological work in the study area. The extensive size of the Site encompasses parts of four contiguous Archaeological Sub-Zones. The greater part is within Sub-Zones 12 and 13, which comprise fields south of Steeple Claydon and Padbury Brook, respectively. The part of the Site located to the south of the Buckinghamshire Railway extends along the northern edge of Sub-Zones 7: Fields to the south of the Buckinghamshire Railway, and 8: Parliamentary enclosure to the south of Infrastructure Maintenance Depot. Chance finds of Palaeolithic and Neolithic material have been recorded in Sub-Zone 13. Whilst no remains are known from the other Sub-Zones, their topography and proximity to watercourses may suggest a potential for settlement, particularly on the gentle south-facing slope of Sub-Zone 12. Trial trenching was therefore required to identify the location, extent, survival and significance of any archaeological finds or features on the Site.

1.2.2 The trial trenching was required to identify the location, extent, survival and significance of any heritage assets at Calvert Depot, to determine further appropriate

investigation/mitigation measures, and to contribute to the following specific GWSI: Historic Environment Research and Delivery Strategy (HERDS) objectives:

- KC5: Identifying settlement location and developing models for settlement patterns for the Mesolithic, Neolithic and Early Bronze Age.
- KC15: Can we identify regional patterns in the in the form and location of Late Bronze Age and Iron Age settlements across the route, and are there associated differences in landscape organisation and enclosure?
- KC21: Assess the evidence for regional and cultural distinctiveness along the length of the route in the Romano-British period, with particular regard to the different settlement types encountered along the route.
- KC31: Identify the location of Middle to Late Saxon settlement, explore processes of settlement nucleation and understand the development of associated field types and agricultural regimes.
- KC35: Investigate the impacts on rural communities of social and economic shocks in the mid-14th century and thereafter and their contribution to settlement desertion.
- KC40: Identify patterns of change within medieval rural settlement from the 11th to mid-14th century.

1.3 Geology and Topography

1.3.1 The British Geological Survey (BGS)1 records the underlying geology as Peterborough Member mudstone except the eastern end, which comprises Stewartby Member mudstone, both being sedimentary bedrock formed approximately 161-165 million years ago during the Jurassic period in an environment dominated by shallow seas. This is overlain in places by superficial geological deposits comprising areas of alluvium associated with the streams and, additionally, areas of terrace gravel north-east of Portway Farm and north of Rose Hill Farm. The parent geology is overlain by slowly permeable, seasonally wet, slightly acid but base-rich loamy and clay soils.2

1.3.2 The Site is fairly flat at c. 80-85m aOD and comprises arable fields.

[1] British geological Society 2018 Geology of Britain Viewer [0nline] accessed 26 January 2018 from http://mapapps.bgs.ac.uk/geologyofbritain/home.html
[2] Cranfield Soil and Agrifood Institute 2018 Soilscapes [online] accessed 26 January 2018 from http://www.landis.org.uk/soilscapes/

2 Working Methodology

2.1 Works Documents

2.1.1 A Project Plan detailing the scope, aims and methodologies required to address specific GWSI:HERDS research objectives identified as being applicable to this Site was prepared for the works; Project Plan for Trial Trench Evaluation at Calvert Depot, Calvert Cutting, Buckinghamshire (Document No.: 1EW03-FUS-EV-REP-CS06_CL09-000644 Revision 2).

2.1.2 The LSWSI for the trial trench evaluation (Document No. 1EW03-FUS-EV-REP-CS05-001585) had been prepared in accordance with the standards and guidance provided by the GWSI: HERDS, the Technical Standards for Specification for historic environment project plans and location specific written schemes of investigation (Document No. HS2-HS2-EVSTD-000-000036) and Specification for Historic Environment Investigations (Document No. HS2-HS2-EV-STD-000-000035) and relevant CIfA Standards.

2.1.3 The baseline archaeological resource established by the HS2 Phase 1 environmental statement, including geophysical survey and LiDAR survey, has previously been reported in the Cultural Heritage Baseline Report for Community Forum Area 13 (Calvert, Steeple Claydon, Twyford and Chetwode). The archaeological baseline was discussed in the Project Plan and is summarised below.

2.1.4 Prehistoric activity in the area surrounding the Site is represented by a Neolithic polished stone axe (CAL042) that was found near to Three Bridge Mill, a short distance north of Area 1.2, and a flint flake of similar date from an allotment on the southern outskirts of Steeple Claydon (CAL035). Animal bones of Pleistocene date have also been found 320m north of Area 1.1 within a gravel extraction pit (CAL041), enhancing our understanding of the environment in this area during the Palaeolithic period.

2.1.5 Roman pottery has been recovered from the Steeple Claydon allotments (CAL035) but no other evidence from this period is known in the immediate vicinity.

2.1.6 The Site lies within the agricultural landscape of the village of Steeple Claydon, which is recorded in the Domesday Survey and is of early medieval origin. The Anglo-Saxon origin of the village is also supported by a small quantity of pottery recovered from the allotments (CAL035). The village appears to have originally developed around the Grade II* listed Church of St Michael (NHLE 1214937), although the modern village lies mostly to the north-east of this. Earthworks of the shrunken medieval village (CAL035 and CAL 036) survive to the north and south of the church and extend to within close proximity to Area 1.2. The village of Twyford, c. 1km north-west of Area 1.1, also has earthworks that suggest a larger settlement during the medieval period (CAL050, CAL051, CAL052 and CAL054). Levelled ridge and furrow has been recorded throughout the parts of the Site that have been subject to

geophysical survey and surviving earthworks lie immediately to the north (CAL124). A possible medieval moated site has been recorded at Allen's Ground (CAL044), c. 500m west of Area 1.1, but is no longer extant.

2.1.7 Steeple Claydon watermill (CAL040) is recorded by Historic England immediately to the north of the Sites. No features are recorded in this area, however, and a 1930s survey of watermills in Buckinghamshire has suggested that the mill actually lay to the north of the village, where a mill race has been identified.

2.1.8 Although shrunken, Steeple Claydon continued in occupation through the post-medieval period to the present day (CAL039). The earthworks to the south of the village (CAL035) also include defences that were constructed during the Civil War when Oliver Cromwell's army camped here overnight. The post-medieval and modern settlement pattern in the area around the Site is dispersed and comprises scattered settlements and hamlets. Two complexes of hedgerows represent survivals of the arrangement as recorded in 1796 (CAL120 and CAL121). Another hedgerow to the west of the Sites marks the medieval parish boundary between Steeple Claydon and Twyford and is therefore a historically 'important' hedgerow (CAL030). The most notable feature of the surrounding landscape is the Buckinghamshire Railway (CAL016), which runs through a series of cuttings and embankments south of Steeple Claydon.

2.1.9 Most of the features on the sites identified by geophysical survey are likely to be medieval plough furrows (CS017 Calvert AV0AE and CS018 Calvert). This potentially includes a group of linear anomalies within the north-western part of the site.

2.2 Works Variations

2.2.1 Thirty-one trenches were planned for excavation within the area of Area 1.1 of which two, Trenches 46 and 47 couldn't be excavated owing to issues with access. The remaining trenches in Area 1.1 and six trenches within Area 1.2 were excavated in the pre-determined positions identified in the project plan. Each trench was excavated using a tracked excavator fitted with a toothless bucket.

3 Results

3.1 Archaeology

3.1.1 The results will be presented by areas Area and these relate to Figures 2.and 3.

3.1.2 The evaluation did not reveal any archaeological evidence to inform or contribute to the HERDS objectives set out in the project plan.

Area 1.1 (Figure 2a)

3.1.3 Area 1.1 includes Trenches 17 to 45.

3.1.4 In the western half of this area two ditches were found within Trench 29, which continued into Trench 33, and Trench 21 orientated on an east/west alignment. A perpendicularly orientated ditch aligned north/south was also revealed within Trench 37 in the centre of Area 1.1. No dating material was recovered from any of these ditches, which measured between 0.66m and 2.03m wide and 0.22m to 0.35m deep. Five furrows were revealed in a similar area to these ditches, in Trenches 33 and 36, also aligned east/west and it is likely that the ditches are part of a field system formed around the furrows or vice-versa.

3.1.5 Two possible undated pits were found within Trench 19; one 0.16m deep and one with a depth of 0.52m. The deeper pit appears to be later and is cut from the top of the subsoil.

Area 1.2 (Figure 3)

3.1.6 Area 1.2 includes Trenches 76-81.

3.1.7 No archaeology was observed in any of the trenches within this area and all showed a consistent stratigraphy of dark grey yellow clay natural sub strata sealed by topsoil.

Finds quantification

3.1.8 No finds were recovered from any of the trenches.

3.2 Discussion

3.2.1 The results of trial trench evaluation have recorded a small amount of archaeology of limited significance clustered within the western half of Area 1.1, which is likely to derive from the medieval period or later.

3.2.2 Trenches 21, 29, 33 and 37 all exposed ditches forming a field system that respected the furrows which were also identified in the vicinity. It is likely that the current field system grew out of an amalgamation of these smaller plots. Two undated pits were also recorded close by in Trench 19. One of these was demonstrated to cut the subsoil and is therefore unlikely to be of any significant age.

4 References

4.1 Glossary of terms

4.1.1 The following terms have been used in this report:

- Archaeological Contractor - the organisation undertaking the specific historic environment works for the Contractor.
- Contractor – Fusion; the organisation undertaking the Enabling Works for Area Central on behalf of the Employer.
- Detailed Desk Based Assessment (DDBA) – analytical document that builds on the information gathered previously in the Environmental Statement to address particular issues, questions or uncertainties within a given area. It may be developed to provide a more detailed understanding of the resource in an area to inform design development or construction programming.
- Employer – HS2 Ltd, the organisation responsible for delivery of HS2 Phase One Scheme and all terms and conditions, policies, procedures, and payments
- Generic Written Scheme of Investigation: Historic Environment Research and Delivery Strategy (GWSI: HERDS) – the framework for delivering all historic environment investigations undertaken as part of the HS2 Phase 1 programme.
- Location – a specific HS2 worksite or group of worksites that are being addressed as a combine historic environment investigation programme of assessment, evaluation and investigation.
- Location Specific Written Scheme of Investigation (LSWSI) - specification document assembling one or more Project Plans within an area of land defined primarily for construction programme purposes. The LS-WSIs will be agreed with the Project Manager and would provide a costed and programmed approach to delivering outcomes.
- Project Plans – specification document for each specific package of activity (e.g. a survey, desk based assessment, excavation, recoding project). The plans would respond to the Specific Objectives set out in the GWSI: HERDS and be delivered within an agreed budget.
- Works – the specific historic environment assessment, evaluation or investigation works at each location.

4.2 References

Title	Reference
British Geological Survey, Geology of Britain viewer	http://mapapps.bgs.ac.uk/geologyofbritain/home.html
CIfA 2014 Standard and guidance for archaeological field evaluation. Chartered Institute for Archaeologists	CIfA 2014
Cranfield Soil and Agrifood Institute, Soilscapes	http://www.landis.org.uk/soilscapes/index.cfm
Fusion Urgent Works Package 1 Quality Plan	1EW03-FUS-QY-PLN-C000-000022
Generic Written Scheme of Investigation: Historic Environment Research and Delivery Strategy	HS2-HS2-EV-STR-000-000015
HS2 Phase One Environmental Statement and Supplementary Environmental Statements	ES 3.5.2.13.4 ES 3.5.2.13.5 ES 3.5.2.13.5 ES 3.5.2.13.5
HS2 Technical Standard: Cultural Heritage GIS Specification	HS2-HS2-GI-SPE-000-000004
HS2 Technical Standard: Temporary Works	HS2-HS2-CV-STD-000-000005
HS2 Technical Standard: - Route wide soil resources plan	HS2-HS2-EV-STD-000-000008
HS2 Technical Standard: Generic Written Scheme of Investigation: Historic Environment Research and Delivery Strategy	HS2-HS2-EV-STR-000-000015
HS2 Technical Standard: Specification for historic environment investigations	HS2-HS2-EV-STD-000-000035
HS2 Project Plan for Trial Trench Evaluation at Calvert Depot, Calvert Cutting, Buckinghamshire	1EW03-FUS-EV-REP-CS06_CL09-000644 Revision 2
HS2 Standard Template for Reports	HS2-HS2-PM-TEM-000- 000004
Fusion, 2017 Location Specific Written Scheme of Investigation for Trial Trenching at Calvert Depot, Calvert Cutting, Buckinghamshire	1EW03-FUS-EV-REP-CS05-0001585

4.3 List of acronyms

AIMS	Asset Information Management System
CIfA	Chartered Institute for Archaeologists
CoCP	Code of Construction Practice
DDBA	Detailed Desk Based Assessment
EIA	Environmental Impact Assessment
ES	Environmental Statement
GIS	Geographical Information Systems

GWSI: HERDS	Generic Written Scheme of Investigation: Historic Environment Research and Delivery Strategy
HER	Historic Environment Record
LLAU	Limits of Land to be Acquired or Used
LOD	Limit of Deviation
LSWSI	Location Specific Written Scheme of Investigation
OASIS	Online Access to the Index of archaeological investigations
OS	Ordnance Survey
PDF	Portable Document Format
PGM	Permanent Ground Markers
QA	Quality Assurance
SMR	Strip, Map and Record
TBM	Temporary Bench Mark
TST	Total Station Theodolite

5 Appendices

5.1 Appendix 1 – Contextual Summary by Trench

Trench 17						
General description					Orientation	NE-SW
Trench devoid of archaeology. Consists of ploughsoil and natural geology of sandy gravelly clays.					Length (m)	30
					Width (m)	1.8
					Avg. depth (m)	0.32
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
1700	Layer	-	0.32	Ploughsoil: friable dark greyish brown silty clay, occasional small pebble inclusions	None	n/a
1701	Natural	-	0.32+	Natural geology: friable to firm light reddish brown sandy clay with coarse gravel		n/a

Trench 18						
General description					Orientation	NW-SE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly sand.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.30
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
1800	Layer	-	0.24	Topsoil: friable mid greyish brown silty sand, stones and weed inclusions	None	n/a
1801	Layer	-	0.24 - 0.30	Subsoil: friable mid greyish brown silty sand, larger stones inclusions	None	n/a
1802	Layer	-	0.30+	Natural geology: friable mid brownish orange gravelly sand with large patches of stones		n/a

Trench 19						
General description					Orientation	NW-SE
Trench contained two pits bordered by the limit of excavation and a field drain orientated NNW-SSE. Consists of topsoil, subsoil and natural geology of gravelly sand.					Length (m)	30
					Width (m)	1.80
					Max. depth (m)	0.33
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
1900	Layer	-	0.25	Topsoil: friable mid brownish grey silty clay, small stones inclusions	None	n/a
1901	Layer	-	0.25 - 0.33	Subsoil: friable light greyish brown silty clay, some small stone inclusions	None	n/a
1902	Layer	-	0.33+	Natural geology: loose mottled light brownish yellow and brownish grey with large patches of coarse gravel		n/a
1903	Cut	0.65	0.16	Oval pit, shallow with moderate sloping sides, a flat base		-
1904	Fill	0.65	0.16	Fill of [1903]. Firm mid yellowish grey silty clay, inclusions of small rounded pebbles <10% and manganese <2%	None	-
1905	Cut	0.73	0.52	Circular pit or possibly modern posthole, steep to vertical sides, a concave to flat base		-
1906	Fill	0.73	0.52	Fill of [1905]. Firm mid greyish brown clayey silt, inclusions of small rounded pebbles <30%	None	-

Trench 20						
General description					Orientation	NW-SE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.37
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2000	Layer	-	0.19	Topsoil: friable mid greyish brown silty sand, small stone inclusions	None	n/a
2001	Layer	-	0.37	Subsoil: firm mid greyish brown silty clay, small stone inclusions	None	n/a
2002	Layer	-	0.37+	Natural geology: compact mid brownish orange gravelly clay, frequent stone and manganese inclusions		n/a

Trench 21						
General description					Orientation	NW-SE
Trench contained one ditch orientated ENE-WSW. Consists of topsoil and natural geology of clayey gravel and gravelly sand.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.39
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2100	Layer	-	0.28	Topsoil: firm mid greyish brown very clayey silt, inclusions of occasional poorly sorted flint 2-4mm and 5-10mm	None	n/a
2101	Layer	-	0.39+	Natural geology: very compact clayey gravel, inclusions of frequent sub-rounded flint 5-10mm and 10-20mm.	None	n/a

				Moderately compact dark brownish orange gravelly sand, inclusions of frequent sub-angular to sub-rounded flint and sandstone 2-8mm and 8-15mm throughout		
2102	Cut	2.03	0.35	Linear ditch, very shallow with moderate sloping sides, concave base. Orientated ENE-WSW.		-
2103	Fill	2.03	0.35	Fill of [2102]. Moderately compact mid greyish yellow sandy clay, occasional poorly sorted sub-rounded flint and sandstone 2-4mm and 5-10mm	None	-

Trench 22						
General description					Orientation	NW-SE
Trench contained two field drains, one orientated N-S and one E-W. Consists of topsoil, subsoil and natural geology of coarse gravel.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.30
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2200	Layer	-	0.24	Topsoil: friable mid brownish grey silty clay, small stone inclusions	None	n/a
2201	Layer	-	0.30	Subsoil: light greyish brown silty clay, small stone inclusions	None	n/a
2202	Layer	-	0.30+	Natural geology: loose light brownish yellow with patches of brownish grey, large patches of coarse gravel		n/a

Trench 23						
General description					Orientation	NW-SE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of clay with gravel and sand patches.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.29
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2300	Layer	-	0.15	Topsoil: firm mid greyish brown sandy silt	None	n/a
2301	Layer	-	0.29	Subsoil: firm mid greyish brown clayey silt, inclusions of sub-angular flint <0.01%	None	n/a
2302	Layer	-	0.29+	Natural geology: mixed yellowish grey clay and mid brown gravels with patches of orange sands and gravels, moderate manganese inclusions		n/a

Trench 24						
General description					Orientation	NW-SE
Trench contained one tree bole oriented NW-SE. Consists of topsoil and subsoil and natural geology of silty clay and silty sand with gravel.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.30
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2400	Layer	-	0.16	Topsoil: compact mid greyish brown sandy silt, inclusions of small stones 10%	None	n/a
2401	Layer	-	0.26	Subsoil: compact mid greyish brown clayey silt, inclusions of small sub-angular flint 20%	None	n/a
2402	Layer	-	0.30+	Natural geology: mixed compact/ friable yellowish grey/ bluish		n/a

				grey silty clay/ orangey brown silty sand with gravel		
2403	Cut	>0.9	>0.54	Irregular 'keyhole' shaped tree bole orientated NW-SE. Irregular gentle to steep sides with rounded edges, concave irregular base, rounded break of slope.		-
2404	Fill	>0.90	0.24	Lower fill of [2403]. Friable mid yellowish grey silty sand, inclusions of small to mid sized sub-angular to rounded stones 10% and sandstones 5%	None	-
2405	Fill	>0.46	0.32	Upper fill of [2403]. Compact/ friable mid brownish grey silty clayey sand, inclusions of sub-angular stones 5% and charcoal flecks 5%	None	-

Trench 25						
General description					Orientation	N-S
Trench contained two field drains orientated NE-SW. Consists of topsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.34
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2500	Layer	-	0.26	Topsoil: mid greyish brown clayey silt	None	n/a
2501	Layer	-	0.26+	Natural geology: light yellowish grey clay, small rounded pebbles and small sub-angular flint inclusions <0.01%		n/a

Trench 26						
General description					Orientation	NNW-SSE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.32
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2600	Layer	-	0.10	Topsoil: firm/ friable mid greyish brown silty clay, some small stone inclusions	None	n/a
2601	Layer	-	0.20	Subsoil: moderately compact mid orangey greyish brown silty clay, odd stone inclusions	None	n/a
2602	Layer	-	0.20+	Natural geology: compact mid blueish orange clay, pebbley with occasional large stone inclusions		n/a

Trench 27						
General description					Orientation	NE-SW
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.35
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2700	Layer	-	0.10	Topsoil: friable mid greyish brown silty clay, small stone inclusions	None	n/a
2701	Layer	-	0.20	Subsoil: firm mid greyish brown silty clay, stone inclusions	None	n/a
2702	Layer	-	0.20+	Natural geology: compact mid bluish orange clay, large pebble inclusions		n/a

Trench 28						
General description					Orientation	E-S
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.56
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2800	Layer	-	0.20	Topsoil: firm mid greyish brown sandy silt	None	n/a
2801	Layer	-	0.32	Subsoil: firm mid greyish brown clayey silt, occasional sub-angular flint inclusions <0.01%	None	n/a
2802	Layer	-	0.32+	Natural geology: mixed greyish yellow and bluish grey clay, occasional small rounded pebbles and small sub-angular flint inclusions <0.01%		n/a

Trench 29						
General description					Orientation	N-S
Trench contained one ditch, one furrow and one field drain, all orientated NW-SE. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.35
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
2900	Layer	-	0.10	Topsoil: friable mid greyish brown silty clay, small rounded stone inclusions	None	n/a
2901	Layer	-	0.20	Subsoil: firm mid greyish brown silty clay, some small stone inclusions	None	n/a
2902	Layer	-	0.20+	Natural geology: firm mid brownish gravelly clay with stone inclusions		n/a

2903	Cut	0.80	0.32	Linear ditch orientated NW-SE. Gentle to moderate sides, concave base.		-
2904	Fill	0.33	0.28	Lower fill of [2903]. Firm mottled mid orangey grey silty clay, occasional pebble inclusions <5%	None	-
2905	Fill	0.65	0.33	Upper fill of [2903]. Firm mid greyish orangey brown silty clay, small rounded stone inclusions <6%	None	-
2906	Cut	1.43	0.19	Linear furrow orientated NW-SE. Shallow with gentle sides, flat base		Medieval/ post medieval
2907	Fill	1.43	0.19	Fill of [2906]. Friable mid orangey brown silty clay, some small rounded stone inclusions <5%	None	Medieval/ post medieval

Trench 30						
General description					Orientation	NW-SE
Trench contained one field drain orientated ESE-WNW. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.36
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3000	Layer	-	0.12	Topsoil: friable mid greyish brown silty clay, small rounded stone inclusions	None	n/a
3001	Layer	-	0.28	Subsoil: firm mid greyish brown silty clay, some small stone inclusions	None	n/a
3002	Layer	-	0.28+	Natural geology: firm mid brownish gravelly clay with stoney		n/a

				inclusions		

Trench 31						
General description					Orientation	NE-SW
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.45
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3100	Layer	-	0.26	Topsoil: friable light greyish brown silty clay, some rooting, small stone inclusions	None	n/a
3101	Layer	-	0.35	Subsoil: friable mid orangey greyish brown silty clay, some stone inclusions	None	n/a
3102	Layer	-	0.35+	Natural geology: mid orangey brown	-	n/a

Trench 32						
General description					Orientation	NNE-SSW
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly silt.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.40
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3200	Layer	-	0.23	Topsoil: friable mid greyish brown silty clay, some rooting, some stone inclusions	None	n/a
3201	Layer	-	0.31	Subsoil: friable mid greyish brown with orange silty clay, stone inclusions	None	n/a
3202	Layer	-	0.31+	Natural geology: loose mid brownish orange gravelly silt with large patches of gravel		n/a

Trench 33						
General description					Orientation	NW-SE
Trench contained one ditch orientated E-W a furrows orientated NW-SE and a furrow orientated N-S. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.43
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3300	Layer	-	0.16	Topsoil: friable mid greyish brown silty clay, occasional small pebble inclusions	None	n/a
3301	Layer	-	0.33	Subsoil: mid greyish brown silty clay	None	n/a
3302	Layer	-	0.33+	Natural geology: firm mid brownish gravelly clay with stone inclusions		n/a
3303	Cut	0.66	0.31	Linear ditch orientated E-W. Concave sides with steep break of slope, rounded base		-
3304	Fill	0.51	0.19	Lower fill of [3303]. Friable dark brownish grey silty clay, moderate charcoal/ burnt wood inclusions <10%	None	-
3305	Fill	0.66	0.19	Upper fill of [3303]. Friable mid greyish brown clayey silt, occasional small pebble inclusions <5%	None	-
3306	Cut	1.70	0.11	Linear furrow orientated NW-SE. Gentle sides with rounded break of slope, flat base		-
3307	Fill	1.70	0.11	Fill of [3306]. Friable light reddish brown silty clay, occasional small stone inclusions <5%	None	-
3308	Cut	1.30	0.19	Linear furrow	None	-

				orientated N-S. Gentle sides, flat base		
3309	Fill	1.30	0.19	Fill of [3308]. Friable mid greyish brown clayey sand, occasional angular pebble inclusions <5cm, 10%	None	-

Trench 34						
General description					Orientation	NE-SW
Trench contained one field drain orientated E-W. Consists of topsoil, subsoil and natural geology of clay and gravels.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.36
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3400	Layer	-	0.21	Topsoil: firm mid greyish brown sandy silt	None	n/a
3401	Layer	-	0.32	Subsoil: firm mid greyish brown clayey silt	None	n/a
3402	Layer	-	0.32+	Natural geology: mixed orangey grey clay and gravels, moderate manganese content		n/a

Trench 35						
General description					Orientation	E-W
Trench contained one field drain orientated NE-SW. Consists of topsoil, subsoil and natural geology of silty clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.40
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3500	Layer	-	0.20	Topsoil: friable mid greyish brown silty clay, small stone inclusions	None	n/a
3501	Layer	-	0.30	Subsoil: firm mid greyish brown silty clay, some stone inclusions	None	n/a
3502	Layer	-	0.30+	Natural geology: compact mid orangey		n/a

				brown silty clay, larger pebbles and stone inclusions		

Trench 36						
General description					Orientation	N-S
Trench contained four furrows all orientated E-W. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.30
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3600	Layer	-	0.20	Topsoil: friable mid greyish brown silty clay, small rounded stone inclusions	None	n/a
3601	Layer	-	0.27	Subsoil: firm mid greyish brown silty clay, some small stone inclusions	None	n/a
3602	Layer	-	0.27+	Natural geology: firm mid brownish gravelly clay with stone inclusions		n/a
3603	Cut	1.90		Not excavated		-
3604	Fill	1.90		Fill of [3603]	None	-
3605	Cut	2.17		Not excavated		-
3606	Fill	2.17		Fill of [3605]	None	-
3607	Cut	1	0.10	Linear furrow orientated E-W. Shallow, gentle symmetrical sides, flat base		Medieval/ post-medieval
3608	Fill	1	0.10	Fill of [3607]. Friable mid orangey greyish brown silty clay, some small stone inclusions <5%	None	Medieval/ post-medieval
3609	Cut	1.10		Not excavated		-
3610	Fill	1.10		Fill of [3609]	None	-

Trench 37						
General description					Orientation	E-S
Trench contained one ditch orientated N-S. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.42
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3700	Layer	-	0.20	Topsoil: friable light greyish brown silty clay, small stone inclusions	None	n/a
3701	Layer	-	0.35	Subsoil: friable mid greyish brown silty clay, small to medium stone inclusions	None	n/a
3702	Layer	-	0.35+	Natural geology: friable mid greyish orange gravelly clay with patches of gravel		n/a
3703	Cut	1.45	0.22	Linear ditch orientated N-S. Concave sides, flat base centrally with rounded break of slope		-
3704	Fill	1.45	0.22	Fill of [3703]. Friable light greyish brown clayey sand, small rounded pebble inclusions <5%	None	-

Trench 38						
General description					Orientation	NW-SE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of silty/ gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.50
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3800	Layer	-	0.28	Topsoil: friable mid brownish grey silty clay, rooting, small stone inclusions	None	n/a
3801	Layer	-	0.36	Subsoil: friable mid	None	n/a

				orangey brown silty clay, medium stone inclusions		
3802	Layer	-	0.36+	Natural geology: mixed orangey grey silty/ gravelly clay with large patches of gravel		n/a

Trench 39						
General description					Orientation	NE-SW
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.46
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
3900	Layer	-	0.20	Topsoil: friable light greyish brown silty clay with rooting, small stone inclusions	None	n/a
3901	Layer	-	0.30	Subsoil: friable mid orangey greyish brown silty clay, small and medium stone inclusions	None	n/a
3902	Layer	-	0.30+	Natural geology: friable mid greyish orange gravelly clay with gravel patches		n/a

Trench 40						
General description					Orientation	NE-SW
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.56
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
4000	Layer	-	0.21	Topsoil: friable light greyish brown silty clay, small stone inclusions	None	n/a
4001	Layer	-	0.32	Subsoil: friable mid	None	n/a

				greyish brown silty clay, small to medium stone inclusions		
4002	Layer	-	0.32+	Natural geology: friable mid greyish orange gravelly clay with patches of gravel		n/a

Trench 41						
General description					Orientation	NW-SE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.40
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
4100	Layer	-	0.20	Topsoil: friable light greyish brown silty clay, small stone inclusions	None	n/a
4101	Layer	-	0.31	Subsoil: friable mid greyish brown silty clay, small to medium stone inclusions	None	n/a
4102	Layer	-	0.31+	Natural geology: friable mid greyish orange gravelly clay with patches of gravel		n/a

Trench 42						
General description					Orientation	NE-SW
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.50
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
4200	Layer	-	0.20	Topsoil: friable light greyish brown silty clay, small stone inclusions	None	n/a
4201	Layer	-	0.36	Subsoil: friable mid greyish brown silty clay,	None	n/a

				small to medium stone inclusions		
4202	Layer	-	0.36+	Natural geology: friable mid greyish orange gravelly clay with patches of gravel		n/a

Trench 43						
General description					Orientation	NW-SE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.57
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
4300	Layer	-	0.20	Topsoil: friable light greyish brown silty clay, small stone inclusions	None	n/a
4301	Layer	-	0.35	Subsoil: friable mid greyish brown silty clay, small to medium stone inclusions	None	n/a
4302	Layer	-	0.35+	Natural geology: friable mid greyish orange gravelly clay with patches of gravel		n/a

Trench 44						
General description					Orientation	NW-SE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.50
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
4400	Layer	-	0.22	Topsoil: friable light greyish brown silty clay, small stone inclusions	None	n/a
4401	Layer	-	0.31	Subsoil: friable mid greyish brown silty clay, small to medium stone inclusions	None	n/a

4402	Layer	-	0.31+	Natural geology: friable mid greyish orange gravelly clay with patches of gravel		n/a

Trench 45						
General description					Orientation	NW-SE
Trench devoid of archaeology. Consists of topsoil, subsoil and natural geology of gravelly clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.52
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
4500	Layer	-	0.20	Topsoil: friable light greyish brown silty clay, small stone inclusions	None	n/a
4501	Layer	-	0.31	Subsoil: friable mid greyish brown silty clay, small to medium stone inclusions	None	n/a
4502	Layer	-	0.31+	Natural geology: friable mid greyish orange gravelly clay with patches of gravel		n/a

Trench 76						
General description					Orientation	E-W
Trench contained one field drain orientated NW-SE. Consists of topsoil, subsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.56
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
7600	Layer	-	0.34	Topsoil: friable mid greyish brown clayey silt, very occasional small pebble and sub-angular stone inclusions <0.01%	None	n/a
7601	Layer	-	-	Subsoil: not visible	None	n/a

7602	Layer	-	0.34+	Natural geology: greyish yellow and blue clay with very occasional small pebble and sub-angular stone inclusions <1%		n/a

Trench 77						
General description					Orientation	NE-SW
Trench contained two possible furrows orientated E-W. Consists of topsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.42
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
7700	Layer	-	0.26	Topsoil: moderately compact mid greyish brown very clayey silt, occasional poorly sorted sub-rounded flint 2-4mm and 8-15mm	None	n/a
7701	Layer	-	0.26+	Natural geology: very compact dark greyish yellow clay, inclusions of occasional manganese 2-6mm throughout, occasional poorly sorted sub-rounded flint 2-4mm and 5-10mm. Very compact orange with mottled grey very clayey gravel, moderate sub-rounded/ sub-angular flint and sandstone 4-10mm and 10-20mm throughout		n/a

Trench 78						
General description					Orientation	NW-SE
Trench contained one field drain orientated N-S. Consists of topsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.41
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
7800	Layer	-	0.29	Topsoil: moderately compact mid greyish brown very clayey silt, occasional poorly sorted sub-rounded flint inclusions 2-4mm and 10-15mm	None	n/a
7801	Layer	-	0.29+	Natural geology: very compact dark greyish yellow clay, occasional poorly sorted sub-rounded flint 5-8mm and occasional poorly sorted sub-angular sandstone 4-8mm		n/a

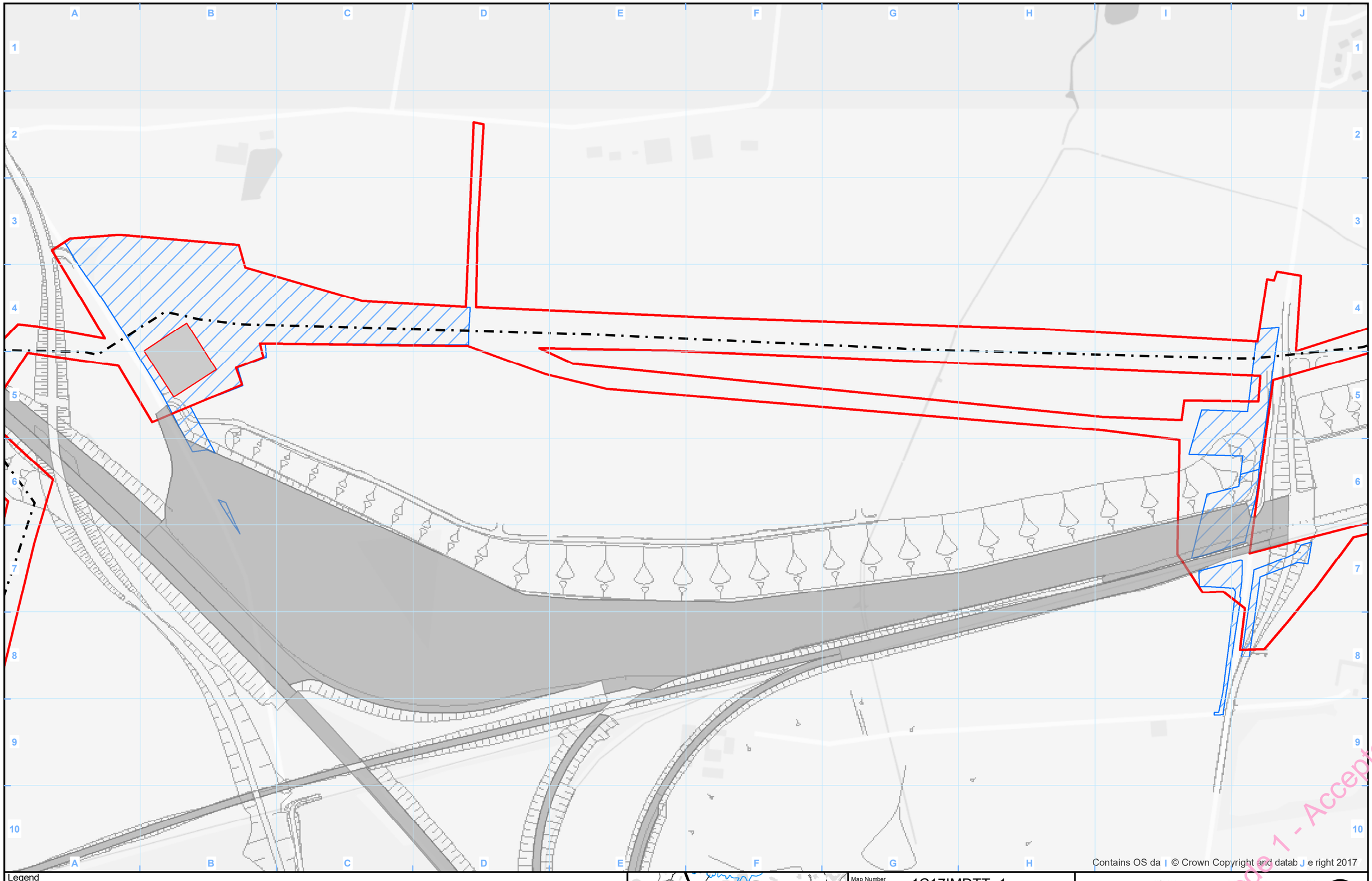
Trench 79						
General description					Orientation	NNW-SSE
Trench devoid of archaeology. Consists of topsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.50
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
7900	Layer	-	0.27	Topsoil: very compact mid brown very clayey silt, occasional sub-rounded flint 2-5mm and 5-10mm inclusions throughout	None	n/a

7901	Layer	-	0.27+	Natural geology: upper soil horizon - very compact dark greyish yellow clay. Lower soil horizon- very compact light greyish yellow clay, occasional sub-angular sandstone 2-8mm throughout		n/a

Trench 80						
General description					Orientation	WNW - ESE
Trench contained one field drain orientated NW-SE. Consists of topsoil and natural geology.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.41
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
8000	Layer	-	0.25	Topsoil: moderately compact mid brown very clayey silt, occasional sub-rounded flint inclusions 2-5mm and 10-15mm throughout	None	n/a
8001	Layer	-	0.25+	Natural geology: very compact dark greyish yellow on top. Second soil horizon- light greyish yellow. Inclusions of occasional sub-angular chalk throughout, occasional poorly sorted sub-rounded flint 5-10mm		n/a

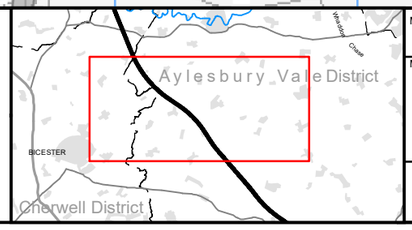
Trench 81						
General description					Orientation	N-S
Trench devoid of archaeology. Consists of topsoil and natural geology of clay.					Length (m)	30
					Width (m)	1.80
					Avg. depth (m)	0.51
Context No.	Type	Width (m)	Thickness/ Depth (m)	Description	Finds	Date
8100	Layer	-	0.25	Topsoil: moderately compact mid greyish brown clayey silt, occasional poorly sorted sub-rounded flint inclusions 2-5mm and 8-20mm	None	n/a
8101	Layer	-	0.25+	Natural geology: very compact dark greyish yellow clay on top, light greyish yellow towards the bottom. Inclusions of occasional sub-angular chalk flecks 2-10mm throughout, occasional poorly sorted sub-rounded flint 4-8mm		n/a

5.2 Appendix 2 – Figures



Legend

- Site boundary
- Priority areas
- AGI
- Rail alignment formation
- Gas Diversion



Map Number 1C17IMDTT_1

Map Name

Calvert Utilities, Calvert Cutting
Interim Report
Engineering Design Plan

Community Forum Area 13
Calvert, Steeple Claydon, Twyford and Chetwode

Scale at A3: 1:5,000

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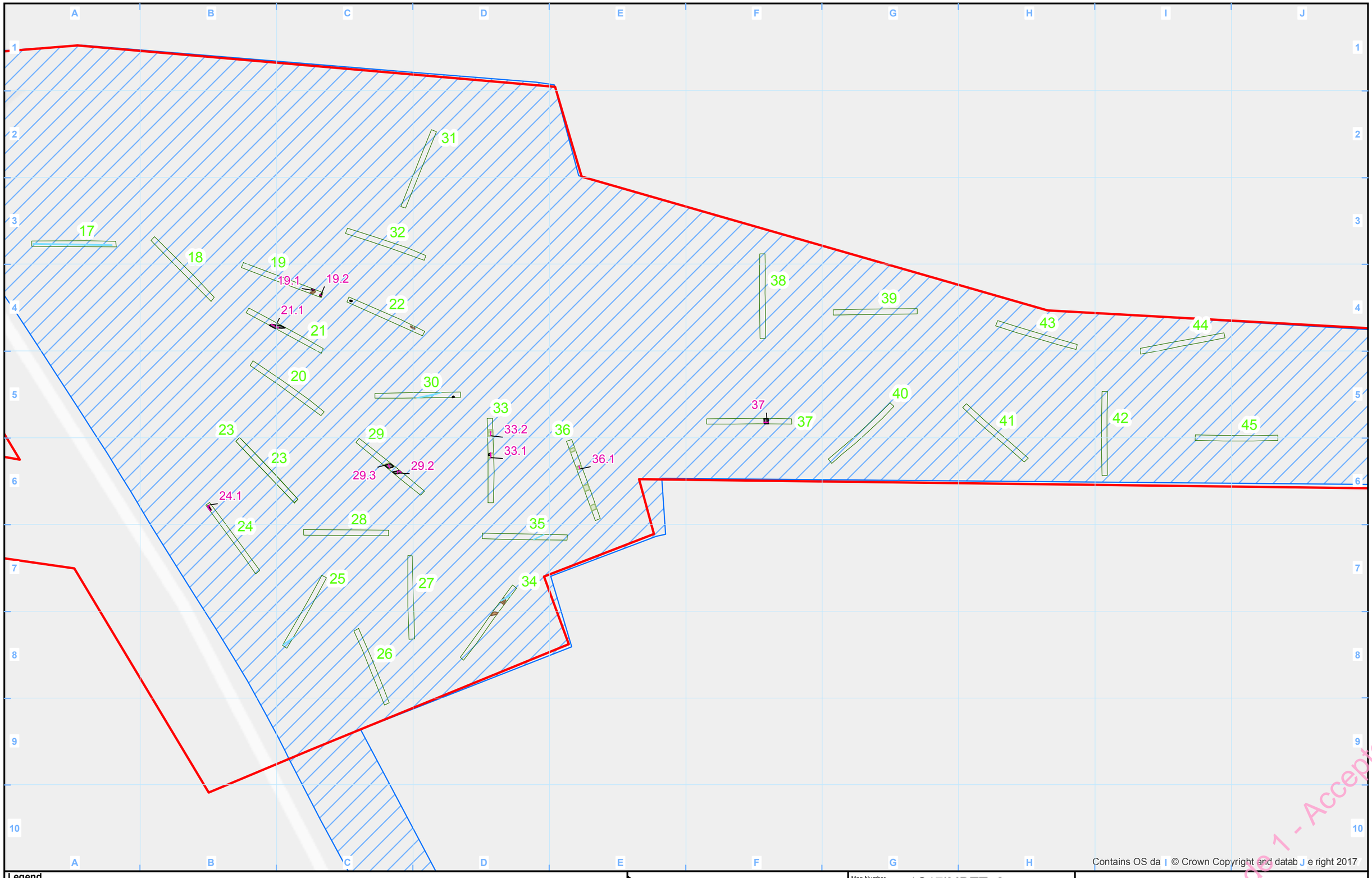
Metres

Doc Number:Figure 1
This figure forms part of report 11EW03-FUS-EV-REP-CS06_CL09-007284 Revision C01

Date: 23/03/18



Legend

- Site boundary
- Priority areas
- Section line
- Cut feature
- Field drain
- Natural
- Treethrow
- Furrow
- Limit of excavation top

Aylesbury Vale District

Map Number: 1C17IMDTT_2a

Map Name: Calvert Utilities, Calvert Cutting Interim Report Trench Plan Area 1.1

Community Forum Area 13
Calvert, Steeple Claydon, Twyford and Chetwode

Registered in England. Registration number 06791686.
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Doc Number:Figure 2
This figure forms part of report 1EW03-FUS-EV-REP-CS06_CL09-007284 Revision C01

Scale at A3: 1:1,250

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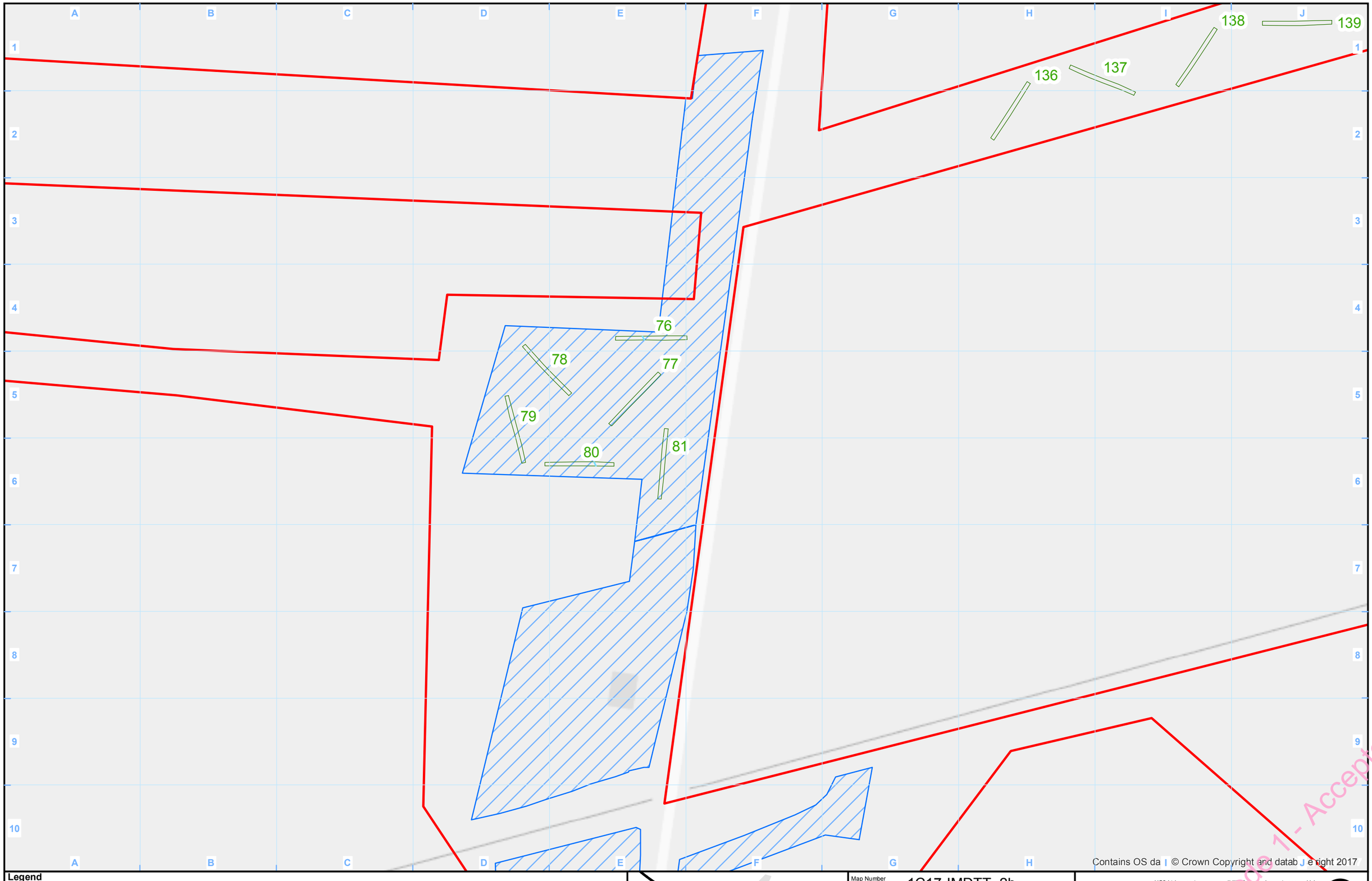
Metres

Date: 20/03/18



Legend

- Site boundary
- Priority areas
- Field drain
- Limit of excavation top

Map Number: 1C17-IMDTT_2b

Map Name: Calvert Utilities, Calvert Cutting Interim Report Trench Plan Area 1.2

Community Forum Area 13
Calvert, Steeple Claydon, Twyford and Chetwode

Doc Number: Figure 3
This figure forms part of report 1EW03-FUS-EV-REP-CS06_CL09-007284 Revision C01

Scale at A3: 1:1,500

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Metres

Date: 20/03/18