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Geophysical Survey

**Stainbank Green Water Main,
Kendal,
Cumbria**

**Archaeological Watching Brief
Report No. 3269**

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1. INTRODUCTION

This report presents the results of an archaeological watching brief by CFA Archaeology Ltd (CFA) on behalf of United Utilities during January 2015, ahead of a water pipeline, on land to the west of Kendal, between Underbarrow Road and Brigsteer Road, and to the east of the A591, Cumbria, (Fig 1).

The work was requested by the landowner (Mr Holmes) as he was aware that a building had previously existed on, or near, the proposed line of the water pipe. A check of the available sources identified a building on a Tithe map of 1826, (Fig 2), and a 'well' but no building marked on the 1st edition OS map, (Fig 3). The Cumbria Country Councils Historic Environment Record held a record for the building (HER No. 44022). It was agreed that a watching brief should be undertaken where the pipeline ran in the immediate vicinity of the former location of the building.

A Written Scheme of Investigation (January 2015) was prepared by CFA Archaeology and agreed with Cumbria County Council Historic Environment Service (CCCHES). The CFA code and number for the project is SBGK.

1.1 Site Location and Description

The site lay to the west of Kendal between Underbarrow Road and Brigsteer Road, and to the east of the A591, (Fig. 1, NGR SD 50322 92068). It was located on south facing, sloping pasture ground. The pipe trench followed the route of a farm track.

The geology of this area consists of 'Park Limestone Formation- Calcarenite, sedimentary bedrock- a pale grey or pale yellow, poorly bedded grainstone. (BGS 2015).

1.2 Archaeological and Historical Background

Prior to the watching brief no intrusive archaeological fieldwork is known to have taken place within the area of the pipeline or HER Site 44022.

Cumbria Country Councils Historic Environment Record describes HER 44022 as 'Post Medieval', and states that, 'A single L-shaped building is visible at this location on a map of c 1826. By the time of the first edition Ordnance Survey mapping (1860), only a well is recorded at the site. It might have been a barn / stock housing, although it might equally be an isolated dwelling. The well could have been associated with either.'

1.3 Project Objectives

In accordance with the Written Scheme of Investigation (January 2015), prepared by CFA Archaeology Ltd, the general objective of the project was to conduct a watching brief on a section of the pipeline wayleave where it crosses the location, and 10m either side of, HER Site 44022 in order to identify the presence/absence, character and quality of any archaeologically sensitive deposits which may lie within the area.

2. WORKING METHODS

2.1 Monitoring

The project was monitored by the Cumbria County Council Historic Environment Service (CCCHES), who were kept informed of developments on site.

2.2 Watching Brief

All machining was undertaken using a toothless ditching bucket under constant archaeological supervision. Topsoil was removed completely by machine down to the top of natural subsoil or the first significant archaeological horizon, whichever was encountered first.

All archaeological remains were recorded by means of photographs, drawings and written records conforming to Chartered Institute for Archaeology (CIfA) standards (1994b) and CFA's quality manuals. All features were planned and drawn in section at an appropriate scale (normally 1:10, 1:20 or 1:50). The photographic record consists of accurately recorded digital photographs.

2.3 Standards and Guidance

CFA Archaeology is a registered organisation (RO) with the Chartered Institute for Archaeologists (CIfA). All work was conducted in accordance with relevant CIfA Standards and Guidance documents (2014), English Heritage guidance (Campbell et al. 2011), and CFA's standard methodology.

2.4 Archiving

The project archive, comprising all CFA record sheets, finds, plans and reports, will be prepared to current guidelines (CIfA 2014 and Brown 2007) ensuring the proper transfer of ownership. The project report shall include an index to the site archive and all digitally generated data. The archive will be retained by CFA until being deposited at a suitable repository.

The Cumbria County Council Historic Environment Service will be notified of the arrangements made for the deposition of the archive.

3. ARCHAEOLOGICAL RESULTS

A possible rubble built wall (**005**), (Fig 5), was identified 0.6m down from the modern ground surface and it survived to a height of 0.3m. It crossed the trench at a right angle and was aligned approximately east-west, (Fig 1). It appeared to sit on top of a deposit of clay (**006**) (Fig 6) that sat on the natural geology. The clay spread out away from the base of the wall and it may have been the remains of a foundation layer on top of which the building was built.

No other wall lines, deposits or features were identified and the wall was only exposed as it crossed the trench. No finds were recovered.

4. CONCLUSION

The archaeological evaluation undertaken at land on between Underbarrow Road and Brigsteer Road to the west of Kendal, Cumbria confirmed the remains of a wall and a possible foundation deposit which may have been the partial remains of the building

Based on the results of the work no further work is recommended, however it is understood that final the decision regarding any further mitigation measures lies with CCCHES.

A summary of the results of archaeological works will be submitted for inclusion in OASIS

5. BIBLIOGRAPHY

BGS, 2014, <http://www.bgs.ac.uk> *British Geological Survey* (Accessed 23/02/2015)

Brown, DH, 2007, *Archaeological Archives: A guide to best practice in creation, compilation, transfer and curation*, Institute for Archaeologists

CIfA, 2014, *Standards and Guidance for an Archaeological Watching Brief*, Institute for Archaeologists,

CIfA, 2014, *Standard and Guidance for the collection, documentation, conservation and research of archaeological materials*, Institute for Archaeologists,

Cartography

1826 Tithe map

1860 Ordnance Survey, First Edition ,Westmoreland XXXVIII

Appendix 1: Context Summary

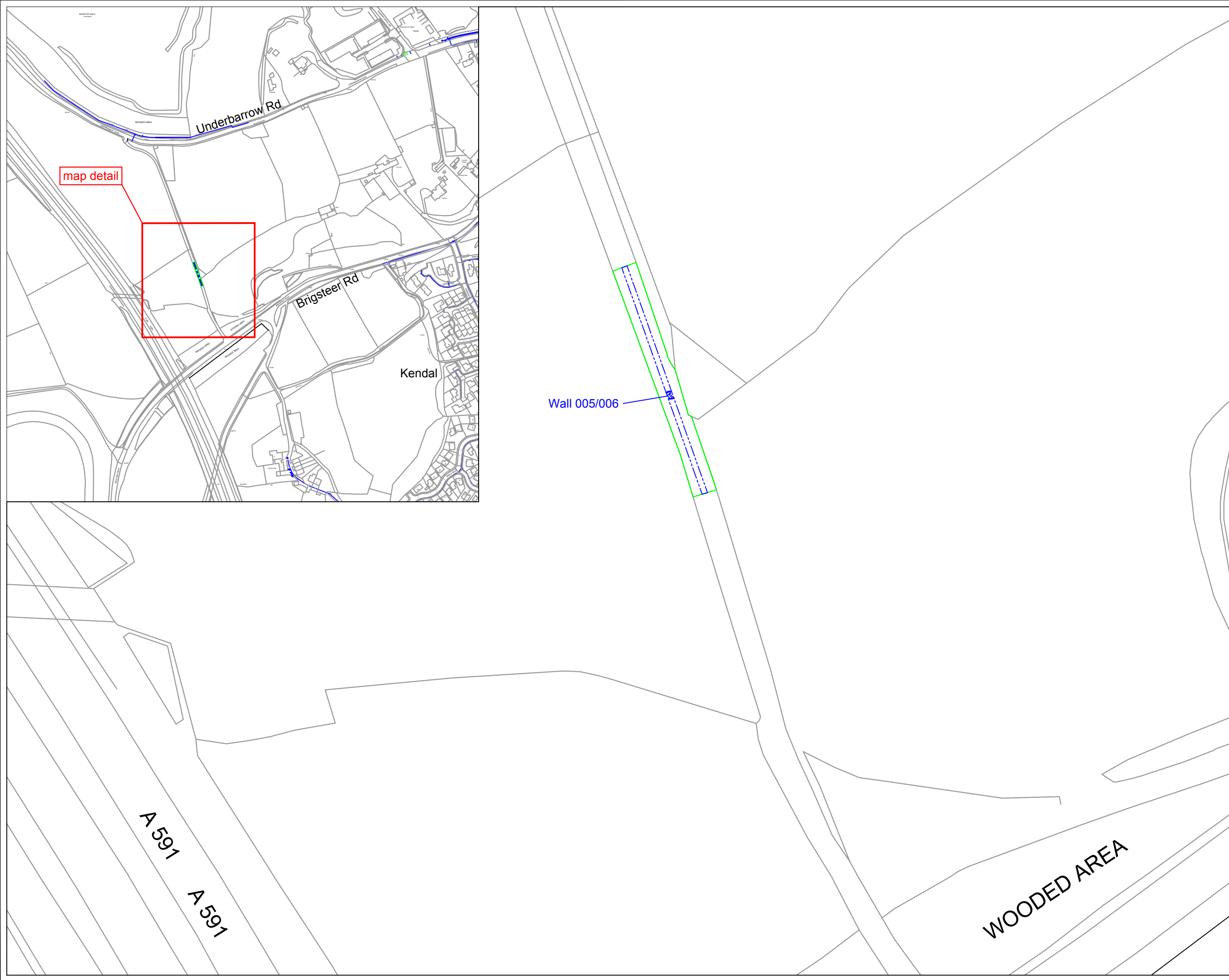
Context no.	Fill of	Length (m)	Width (m)	Depth (m)	Discussion
001		Across trench		0.3	Crushed stone forming the farm trackway
002		Across trench		0.3	Made ground layer beneath stone (001) forming the trackway l
003					Black silty layer in section
004		Across trench		na	Natural geology
005		0.4	2	0.30	Dry stone rubble wall
006					Grey clay deposit below wall. Possible foundation deposit.

Appendix 2: Photographic Register

Number	Contexts/description	Facing	Conditions
1	Pre-excavation of site	S	Good/Overcast
2	Working shot in Watching Brief Area	S	Good/Overcast
3	Wall 005/006 being exposed	W	Good/Overcast
4	Wall 005/006 prior to being removed	W	Good/Overcast
5	Wall 005/006 prior to being removed	W	Good/Overcast
6	Wall 005/006 prior to being removed	W	Good/Overcast
7	Wall 005/006 prior to being removed	W	Good/Overcast
8	Wall 005/006 prior in trench	S	Good/Overcast
9	Wall 005/006 prior in trench	S	Good/Overcast
10	Area of Watching brief	S	Good/Overcast
11	Area of Watching brief, southern end	N	Good/Overcast
12	Area of Watching brief, northern end	N	Good/Overcast
13	Hollow north of Wall 005/006 filled in with crushed stone 001	NE	Good/Overcast
14	West facing section of wall 005/006	W	Good/Overcast
15	East facing section of wall 005/006	E	Good/Overcast

Appendix 3: Drawing Register

Drawing	Sheet	Scale	Plan / Section	Description/contexts
1	1	1:50	Plan	Plan of Trench with Wall 005/006
2	1	1:20	Section	West facing section of Wall 005/006



Key:

- Watching Brief Area
- Pipe trench

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Fig. No:	1	Report No:	0
Title: Site location and location of watching brief area			
Project: Stainbank Green Water Main, Kendal, Cumbria			
Client: United Utilities			
Scale at A3: 1:500			
Drawn by:	GC	Checked:	LW
		Date:	25/02/2015
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Fig. 2 - Tithe map of 1826 showing building



Fig. 3 - Extract of map by Ordnance Survey, 1st Edition 1860, showing building removed



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Fig. 4 - Pipe trench watching brief area pre-excavation



Fig. 5 - Wall 005/006 and east facing section of pipe trench



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Fig. 6 - East-facing section through wall (005) showing clay layer (006) beneath



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	Client: United Utilities				
Project: Stainbank Green Water Main, Kendal, Cumbria					