FERNHALL LANE RISING MAIN WALTHAM ABBEY

ARCHAEOLOGICAL MONITORING





June 2011

Fernhall Lane Rising Main, Waltham Abbey, Archaeological Monitoring HER Summary Report

Prepared for Optimise / Thames Water

Archaeological monitoring was carried out during the refurbishment of the Fernhall Lane Rising Main, Waltham Abbey, Essex. This document presents the results of that monitoring, undertaken in May 2011.

The work was carried out for Optimise (contractors acting for Thames Water) in line with a brief of works prepared by Essex County Council Historic Environment Management (Adam Garwood).

Document Ref: ECC Proj. Ref:	2378 Report 2378
Date:	June 2011
Prepared by:	Essex County Council Field Archaeology Unit Fairfield Court Fairfield Road Braintree CM7 3YQ
	Tel 01376 331431
Project Manager:	Adrian Scruby
Project Officer:	Ellen Heppell

Essex County Council Field Archaeology Unit is an Institute for Archaeologists Registered Organisation



Fernhall Lane Rising Main, Waltham Abbey, Archaeological Monitoring

HER Summary Report

Site Name/Address: Fernhall Lane Rising Main Fernhall Lane / Crown Hill				
Parish: Waltham Abbey	District: Waltham Abbey			
NGR:	Site Code:			
541845 / 201016 to 542135/200968 to	WAFL 11			
542212 201002				
Type of Work: Archaeological Monitoring	Site Director/Team: E. Heppell (ECC FAU)			
Dates of Work:	Size of Area Investigated: 11 launch/receptor pits			
4-5 May 2011	for directional drilling (average 1.2m wide x 2m long x			
	1.5m deep)			
Curating Museum:	Funding Source:			
Epping Forest Museum	Optimise / Thames Water			
Further Work Anticipated? No	Related HER Nos. None			
Final Report:	OASIS Ref: essexcou1-103003			
Summary Report for EHER				
Periods Represented: None				

SUMMARY OF FIELDWORK RESULTS:

Introduction:

Archaeological monitoring took place during groundworks associated with the Fernhall Lane Rising Main Refurbishment. When planning the scheme Thames Water had determined that an approved programme of archaeological work would be required in order to fulfil the company's obligations under the Code of Practice on Conservation, Access & Recreation (Water Act 1989). ECC Historic Environment Management (ECC HEM) advised that, in line with guidance contained in PPS5: Planning for the Historic Environment, a programme of archaeological monitoring should take place during the excavation of the direction drill launch/ reception pits.

ECC FAU carried out the monitoring on the behalf of Optimise/Murphys and Thames Water in accordance with a brief of works (ECC HEM 2011) issued by Adam Garwood of ECC Historic Environment Management and a responding Written Scheme of Investigation (ECC FAU 2011).

Results:

Archaeological monitoring was carried out during the machine excavation of 10 launch/receptor pits that were used for the directional drilling of a c. 375m length of rising main (Fig.1). The route of the main ran east along Crown Hill from a manhole, between the roadway and woodland before crossing Fernhall Lane. It then ran downhill to a trackway, turning northeast at the base of the slope to intercept the existing lane. Initially 6-7 pits were planned for the route but a further four were dug to enable the directional drilling to avoid existing services.

The launch/receptor pits were excavated by a wheeled excavator with a bladed bucket. They were 1.2m wide 2-3m long and 1.5-1.8m deep. Topsoil and subsoil were 0.3-0.4m thick and

rested on an underlying deposit of clay with chalk and flint pieces. There were fewer inclusions in the clay encountered in the pits to the east of Fernhall Lane. The British Geological Survey map the underlying clays as Lowestoft Formation (the chalky clays) and London Clay, the latter the cleaner material encountered in the pits to the east of the road (Fig. 2).

No archaeological remains were identified in any of the pits and no artefacts were recovered.

The archive for the monitoring comprises this report and photographs (appended to the report). This will be deposited in the Essex Historic Environment Record, the OASIS online repository and with Epping Museum.

Previous Summaries/Reports: None		
Author of Summary: E.Heppell	Date of Summary: 30 June 2011	

Introduction:

Archaeological monitoring took place during groundworks associated with the Fernhall Lane Rising Main Refurbishment. When planning the scheme Thames Water had determined that an approved programme of archaeological work would be required in order to fulfil the company's obligations under the Code of Practice on Conservation, Access & Recreation (Water Act 1989). ECC Historic Environment Management (ECC HEM) advised that, in line with guidance contained in PPS5: Planning for the Historic Environment, a programme of archaeological monitoring should take place during the excavation of the direction drill launch/ reception pits.

ECC FAU carried out the monitoring on the behalf of Optimise/Murphys and Thames Water in accordance with a brief of works (ECC HEM 2011) issued by Adam Garwood of ECC Historic Environment Management and a responding Written Scheme of Investigation (ECC FAU 2011).

Summary Of Fieldwork Results:

Archaeological monitoring was carried out during the machine excavation of 10 launch/receptor pits that were used for the directional drilling of a c. 375m length of rising main (Fig.1). The route of the main ran east along Crown Hill from a manhole, between the roadway and woodland before crossing Fernhall Lane. It then ran downhill to a trackway, turning northeast at the base of the slope to intercept the existing lane. Initially 6-7 pits were planned for the route but a further four were dug to enable the directional drilling to avoid existing services.

The launch/receptor pits were excavated by a wheeled excavator with a bladed bucket. They were 1.2m wide 2-3m long and 1.5-1.8m deep. Topsoil and subsoil were 0.3-0.4m thick and rested on an underlying deposit of clay with chalk and flint pieces. There were fewer inclusions in the clay encountered in the pits to the east of Fernhall Lane. The British Geological Survey map the underlying clays as Lowestoft Formation (the chalky clays) and London Clay, the latter the cleaner material encountered in the pits to the east of the road (Fig. 2).

No archaeological remains were identified in any of the pits and no artefacts were recovered.

The archive for the monitoring comprises this report and photographs (appended to the report). This will be deposited in the Essex Historic Environment Record, the OASIS online repository and with Epping Museum.

ARCHIVE DATA:

Locations Of Pits

Name	Easting	Northing
Pit 1	541962	201014
Pit 2	541864	201015
Pit 3	541849	201017
Manhole	541845	201016
Pit 4	541893	201015
Pit 5	541870	201016

Name	Easting	Northing
Pit 6	542058	200996
Pit 7	542008	201010
Pit 8	542135	200968
Pit 9	542159	200974
Pit 10	542178	200990
Pit 11	542212	201002

Selected Photographs:



Plate 1. Pit 1 (looking east)



Plate 2. Pit 2 (looking east)

Plate 3 . Pit 8 (looking west)



Plate 4. Pit 8 after drilling (looking east)



Plate 5. Working shot, Pit 9

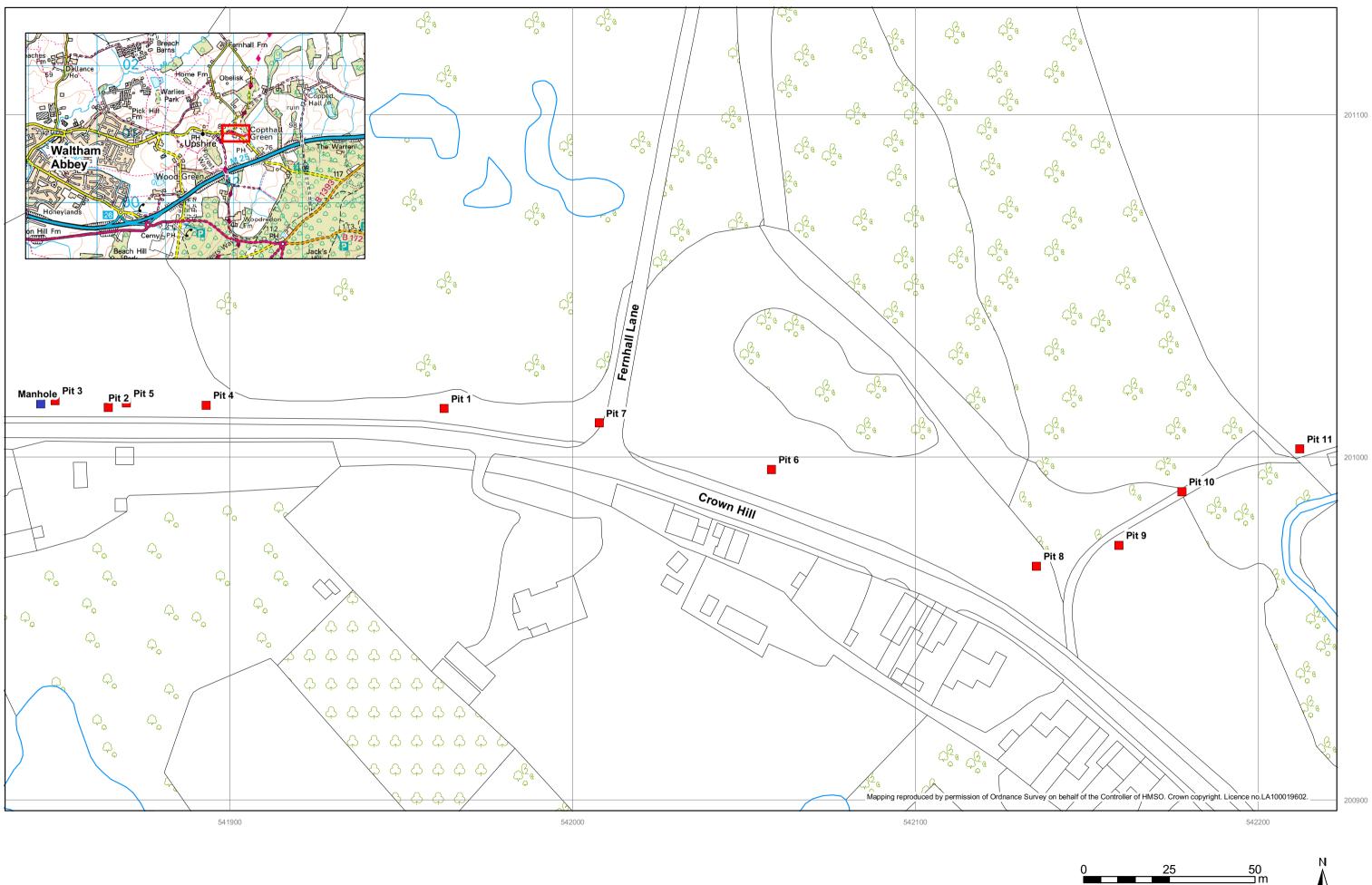


Fig.1. Location of trial / receptor pits which were subject to archaeological monitoring







Fig.2. Extents of Lowwestoft Formation Deposits, derived from BGS mapping



