

The Archive arriving on Platform 1...

Digital Archives and Mega-infrastructure projects



Julian Richards, Tim Evans,
Katie Green, Kieron Niven &
Jenny O'Brien

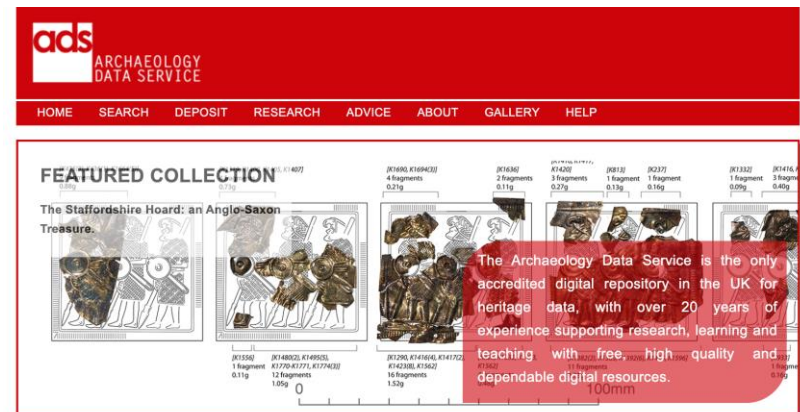


@Julian62523002
@ADS_Update

CHNT, Vienna
4 Nov 2019

Archaeology Data Service

- UK National digital repository
- Set up in 1996
- Based within the University of York
- 12 staff
- Business model based upon charging policy
- Trusted Digital Repository: Data Seal of Approval
- Received Digital Preservation Coalition's Decennial Award in 2012





Mega Digital Archives



“The HS2 Ltd historic environment digital archive will be the largest historic environment digital archive ever compiled in the UK.

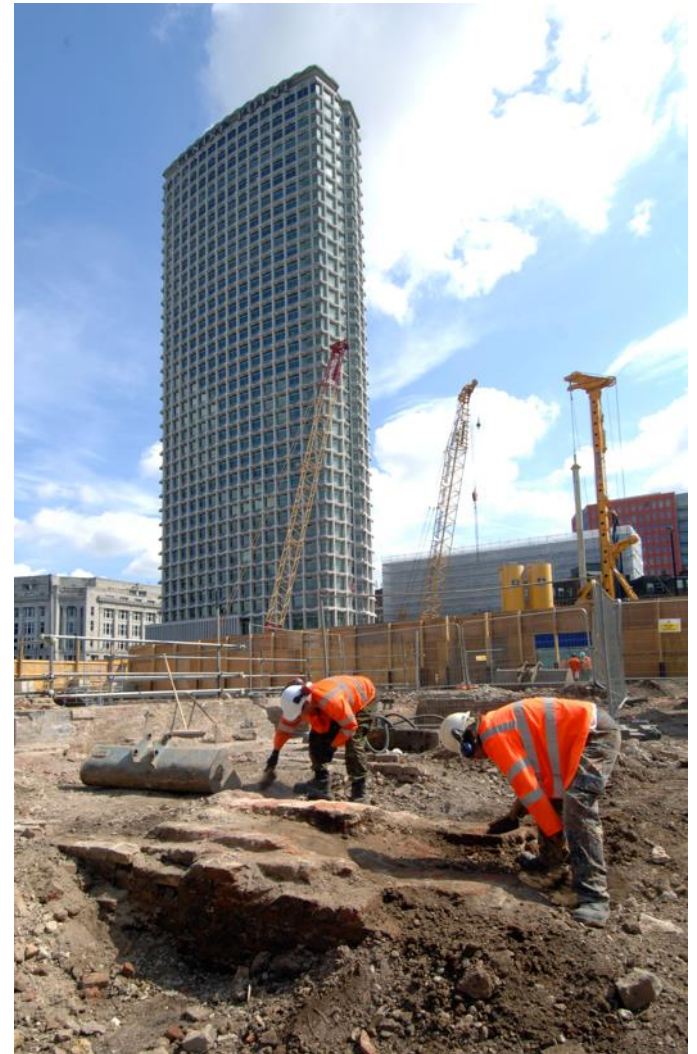
The ADS will provide a single cohesive sustainable and accessible archive location for the HS2 Ltd archived historic environment digital data.”

UK high speed rail map, Wikimedia CC BY-SA 3.0

Outline

ADS experience:

- Stansted Airport 2009
- Heathrow Terminal 5 2011
- A46, A1, A14 trunk roads
- CTRL: Channel Tunnel Rail Link 2004
- Crossrail 2019
- HS2: HighSpeed2 2019+
- Challenges and opportunities



Museum of London Archaeology
(2019) Tottenham Court Road
(Crossrail TCG09)

<https://doi.org/10.5284/1055117>

Issues to consider

- Largest transport infrastructure projects ever undertaken in UK
- Major financial investment
- Often direct Govt funding
- Archaeology = tiny fraction of budget
- Digital archive costs = tiny proportion of that
- Working within “Best value” frameworks



Museum of London Archaeology (2019) *Whitechapel Station*
(Crossrail XSH10) <https://doi.org/10.5284/1055118>

The Stansted Framework Project

Framework Archaeology, 2009

Introduction

Overview

Downloads

Metadata

Usage Statistics

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Primary contact

Wessex Archaeology
Portway House
Old Sarum Park
Salisbury
SP4 6EB
UK
Tel: 01722 326867
Fax: 01722 337562

[Send e-mail enquiry](#)

Introduction

Framework Archaeology is a Joint Venture agreement between Oxford Archaeology (OA) and Wessex Archaeology (WA) to provide archaeological services to BAA. Given the potential scale of some of BAA's projects, the joint venture enables Framework Archaeology to draw on the full resources of both OA and WA, including site staff, specialist managers, administrative support, and technical facilities. This combination of resources (totalling over 300 staff) considerably reduces risk for both our client and us, and provides Framework Archaeology with a wider skills base.

Framework Archaeology is committed to a particular archaeological philosophy developed by BAA's archaeological consultants, Gill Andrews and John Barrett. This is concerned with understanding how people inhabited past landscapes: archaeology as a study of people rather than deposits or objects. This approach is at the heart of the Archaeological Policy adopted by the BAA Main Board. Framework projects are thus academically driven but undertaken within a commercial environment. In order to fulfil the approach a Framework Archaeology recording system has been developed and is now in operation on all Framework Projects. It places great emphasis on interpretation in addition to recording, and developing a historical narrative as the site is excavated (Andrews, Barrett & Lewis 2000).



Between 1999 and 2004, Framework Archaeology undertook a series of large-scale archaeological excavations at Stansted Airport, Essex. These were undertaken in advance of redevelopment work within the Stansted Airport Limited landholding. The developments were designed to improve facilities for passengers or to augment the infrastructure of the Airport. The results of the archaeological excavations were published by Framework Archaeology in 2008 in the book entitled "From hunter gatherers to huntsmen: A history of the Stansted landscape" (Framework Archaeology Monograph No. 2.).

Framework Archaeology Heathrow Terminal 5 Excavation Archive

Framework Archaeology, 2011

Introduction

Overview

Query

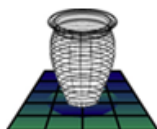
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Old Sarum Park
Salisbury
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Between 1996 and 2000 Framework Archaeology undertook extensive excavations of an important prehistoric and Roman landscape at Perry Oaks sludge works, Heathrow, Middlesex. Further archaeological work in advance of a fifth passenger terminal ("T5") at Heathrow Airport took place from 2002 onwards, and the results of those excavations will be integrated with the data contained in this archive.

The digital archive for the [Framework excavations at Stansted](#) is also held by the ADS.

A46 Newark to Widmerpool Road Improvement scheme (2009)

Wessex Archaeology, Cotswold Archaeology, 2017

Introduction

Overview

Downloads

Metadata

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Primary contact

Wessex Archaeology
Portway House
Old Sarum Park
Salisbury
SP4 6EB
UK

Introduction

Cotswold Wessex Archaeology, a Joint Venture between Cotswold Archaeology and Wessex Archaeology, were appointed as the archaeological contractors to Balfour Beatty Civil Engineering Limited, employed by the Highways Agency as lead contractor on the A46 Newark to Widmerpool Improvements. The project comprised on-line and offline improvements to an approximately 29km stretch of the A46 trunk road between Newark and Widmerpool, Nottinghamshire.



The course of the A46 trunk road in south-east Nottinghamshire follows the line of the Fosse Way, a Roman road linking Lincoln and Leicester. The project provided a rare opportunity to investigate not only how the construction of the Roman road influenced patterns of settlement, economy and agriculture during the period of Roman occupation, but also how those patterns had developed through the preceding prehistoric period, and in turn how they helped shape the post-Romano-British landscape up to the present day. These road improvements, as previously, largely reproduced the line of the ancient road almost two millennia after its construction.

Yet, the archaeological evidence revealed during the investigations along its course – of flint working in the Upper Palaeolithic, Mesolithic and Neolithic; barrow construction and burial in the Early Bronze Age; land division starting in the Late Bronze Age; settlement and agriculture in the Iron Age and, subsequently, in the Romano-British period flanking the Roman road and around the town of Margidunum; funerary practices of Romano-British and Saxon date; and land use from the medieval period to the present – has thrown light on longer-term patterns of continuity and change in the settlement and exploitation of the landscape.

Channel Tunnel Rail Link Section 1

Stuart Foreman, 2004 (updated 2018)

[Introduction](#)

[Project Overview](#)

[Project Downloads](#)

[Using the resource](#)

[Map Search](#)

[Period Search](#)

[Advanced Search](#)

[Site List](#)

[Reference List](#)

[Usage Statistics](#)

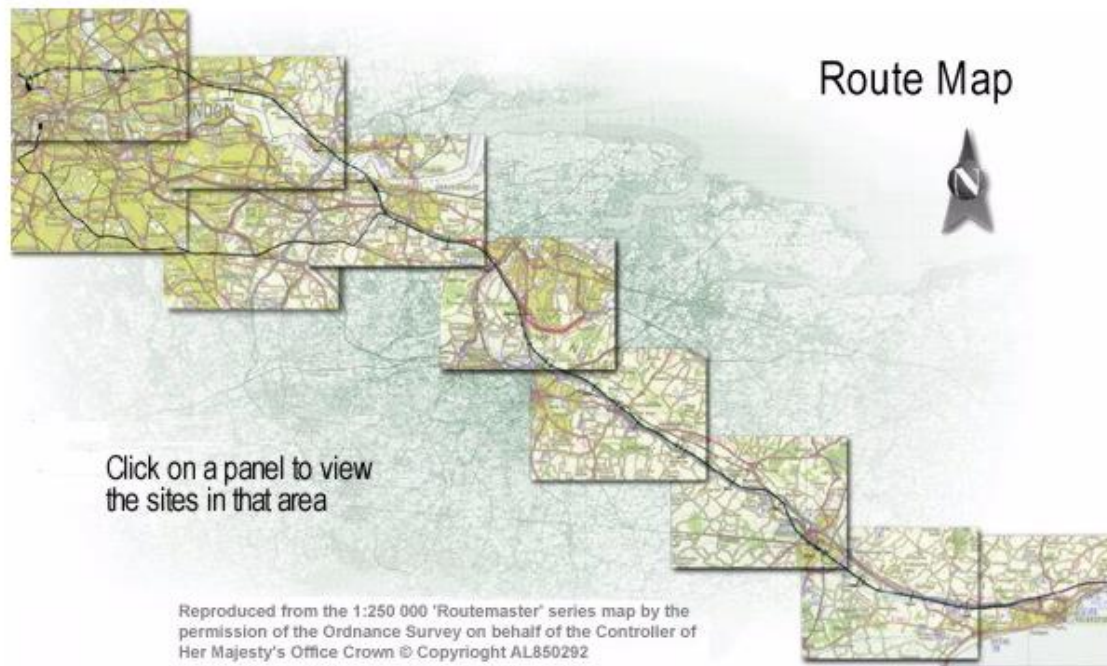
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Map Search

Click on the panels of the map below to see site details.



Click on a panel to view
the sites in that area

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Route Map

Channel Tunnel Rail Link Section 1

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[Introduction](#)

[Project Overview](#)

[Project Downloads](#)

[Using the resource](#)

[Map Search](#)

[Period Search](#)

[Advanced Search](#)

[Site List](#)

[Reference List](#)

[Usage Statistics](#)

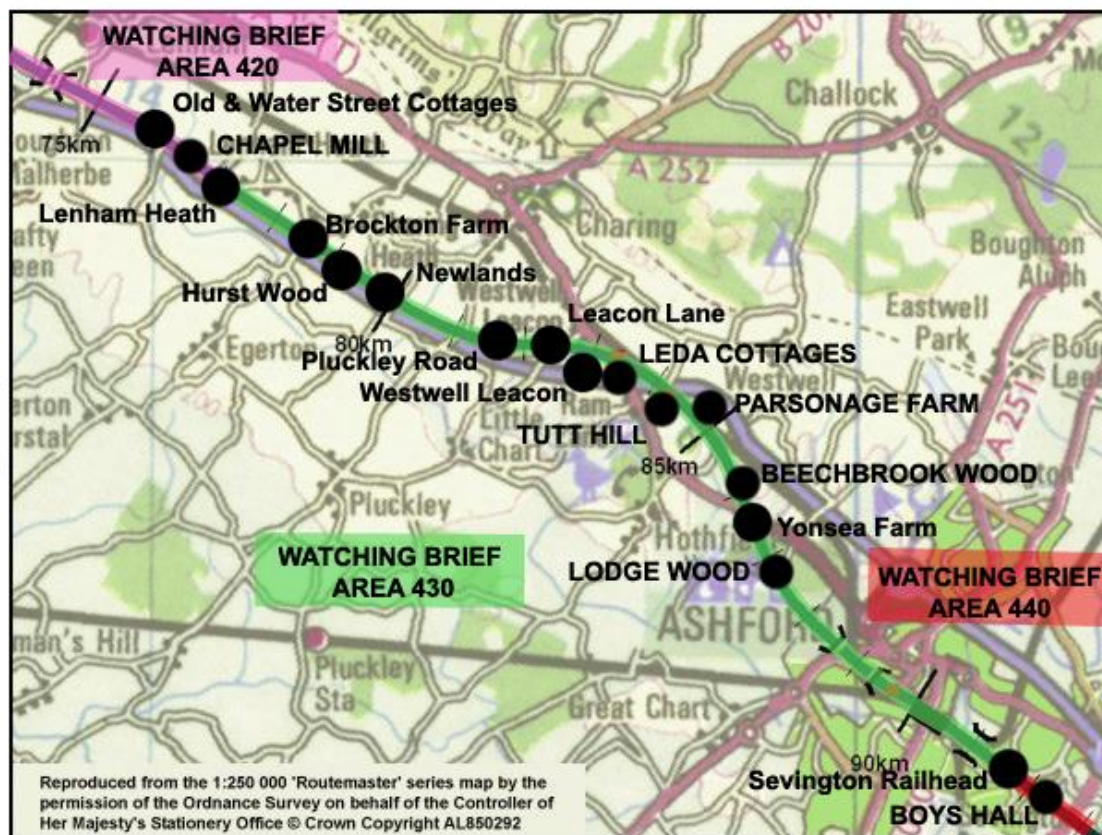
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Map Search

Click on the panels of the map below to see site details.



Channel Tunnel Rail Link Section 1

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[Introduction](#)
[Project Overview](#)
[Project Downloads](#)
[Using the resource](#)

[Map Search](#)
[Period Search](#)
[Advanced Search](#)
[Site List](#)
[Reference List](#)
[Usage Statistics](#)

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Map Results

Your search on **Parsonage Farm** returned the following results:

Results from Phase 2 (Sites)

Site Name	Project type
Parsonage Farm, Westwell, Kent	Integrated Report

Results from the Scheme Wide Programme

Parsonage Farm **may** also be discussed in the Scheme Wide programme and watching briefs:

Scheme Wide Programme	Scheme Wide
Channel Tunnel Rail Link Section 1 - Watching Brief Area 430, Kent	Integrated Report

Results from Phase 1 (superseded)

N.B. Much of the work in Phase 1 has been superseded by works associated with Phase 2 and Schemewide programmes, but are included here for completeness.

Site Name	Project type
Parsonage Farm (West Of Station Road), ARC PFM 97	Site Archives
Parsonage Farm, ARC PFM 98	Site Archives

Parsonage Farm (West Of Station Road), ARC PFM 97

Museum of London Archaeology, 2004 (updated 2017)

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[Downloads](#)

[Metadata](#)

[Usage Statistics](#)

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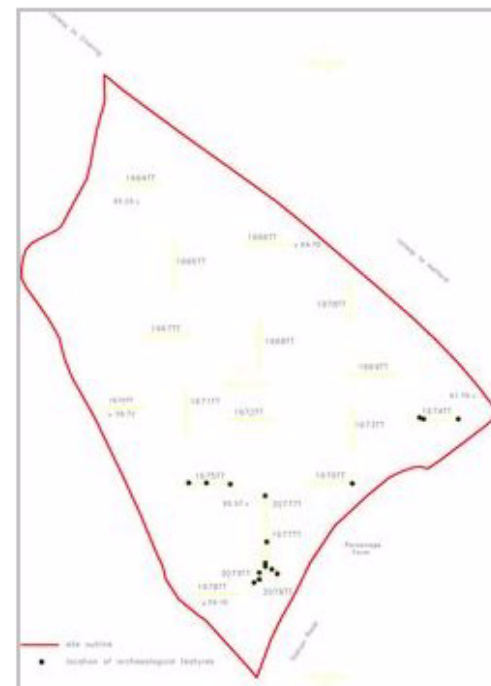
Introduction

As part of a programme of archaeological investigations along the route of the Channel Tunnel Rail Link, Union Railways Limited (URL) commissioned the Museum of London Archaeology Service (MoLAS) to undertake an evaluation in a field to the west of Station Road, opposite Parsonage Farm. The site (ARC PFM97) was located to the south of the M20, approximately 5km north-west of the centre of Ashford, Kent.

Sixteen trenches were originally planned, but in the course of the evaluation three additional trenches were added in the vicinity of 1677TT: 3077TT; 3078TT and 3079TT.

Natural strata consisted of Folkestone Beds sands which were sealed in places by drift deposits of sandy silt and capped, on the higher ground, by colluvial 'head' deposits of 'clay-with-flints'. To the south and south-west the natural strata were removed by the channel of a relict river, now mostly infilled by hillwash deposits.

In the southern part of the site the stone foundations of a rectangular building were found, close to the bank of the relict river. The full extent of the structure was not revealed, although it was possible to postulate the presence of an internal earth floor, a hearth and an external cobbled surface. Pottery and roof tiles from these deposits indicated that the structure was of medieval date.



Parsonage Farm (West Of Station Road), ARC PFM 97

Museum of London Archaeology, 2004 (updated 2017)

[Introduction](#)
[Downloads](#)
[Metadata](#)
[Usage Statistics](#)

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Downloads

[Reports](#) | [Spreadsheets](#) | [CAD \(Vector graphics\)](#)

Reports

The following reports are available from the ADS Library and can be accessed using the 'Go to report' links below.

Anon (1997) *West Of Station Road, Parsonage Farm ARC PFM97. An Archaeological Evaluation*. MOLA (Museum of London Archaeology):. DOI: <https://doi.org/10.5284/1010570>.

[Go to report](#)

The following documents are also part of the archive.

Summary Report	PDF	23 Kb
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Parsonage Farm (West Of Station Road), ARC PFM 97

Museum of London Archaeology, 2004 (updated 2017)

[Introduction](#)
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[Metadata](#)
[Usage Statistics](#)

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Downloads

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Spreadsheets

Parsonage Farm (ARC PFM97)

Archive Dataset	CSV	1 Kb
Bulk Finds Dataset	CSV	2 Kb
Context Dataset	CSV	13 Kb
Environmental Dataset	CSV	1 Kb
Event Dataset	CSV	2 Kb
Graphical Dataset	CSV	6 Kb

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EVENT_NAME,EVENT_CODE,TRENCH_URL,CONTEXT,TYPE,FIL
L OF,SUB-
GROUP,INTERPRETATION,ASSOCIATION,PERIOD,RES_INT,C
OMMENTS
"West of Station Road, Parsonage Farm",ARC PFM
97,1664 TT,0001,Deposit,,,LAYER,,,MO,,,Disturbed
topsoil
"West of Station Road, Parsonage Farm",ARC PFM
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topsoil
"West of Station Road, Parsonage Farm",ARC PFM
```

Channel Tunnel Rail Link Section 1

Stuart Foreman, 2004 (updated 2018)

[Introduction](#)
[Project Overview](#)
[Project Downloads](#)
[Using the resource](#)

[Map Search](#)
[Period Search](#)
[Advanced Search](#)
[Site List](#)
[Reference List](#)
[Usage Statistics](#)

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Period Search

Select a period below to see all sites from that period.



Mesolithic 10,000-4000 BC



Neolithic 4000-2300 BC



Bronze Age 2300-700 BC



Iron Age 700 BC-AD 43



Roman AD 43-410



Early Medieval AD 410-1066



Medieval AD 1066-1540



Post Medieval/Modern After 1540

Channel Tunnel Rail Link Section 1

Stuart Foreman, 2004 (updated 2018)

Introduction

[Project Overview](#)

[Project Downloads](#)

[Using the resource](#)

[Map Search](#)

[Period Search](#)

[Advanced Search](#)

[Site List](#)

[Reference List](#)

[Usage Statistics](#)

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Advanced Search

Use the form below to enter a query and click [search](#) or go to the [Map Search](#) to see site details. Alternatively you can pick a site from the [Site List](#).

Site Details

Site or place name

Intervention type

Contractor responsible

Materials and/or Features

Use this field to search the archive for feature or artefact types. This field can be used in conjunction with the Period fields below to return results from specific periods. Please use terms from the Historic England **Monuments Type Thesauri** or the MDA **Archaeological Objects Thesauri** using the [Search Form](#) facility.

Monument or Archaeological Object

Period

[search](#)

[reset query](#)

Channel Tunnel Rail Link Section 1

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[Introduction](#)

[Project Overview](#)

[Project Downloads](#)

[Using the r](#)

[Map Search](#)

[Period Sea](#)

[Advanced](#)

[Site List](#)

[Reference](#)

[Usage Stat](#)

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Programme and Site Lists

A list of discreet programmes of work that have been carried out as part of research associated with Phase

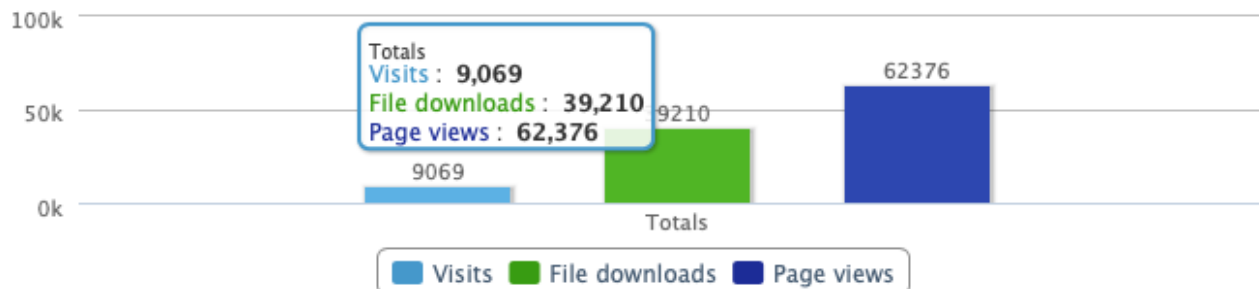
Two of the Channel Tunnel Rail Link (CTRL) project, later known as High Speed 1. These are arranged

nmaries, Scheme Wide
rammes can be found
egrated Reports, Building

of the Channel Tunnel Rail

with Phase 2 and Schemewide

Totals since May 2011



Statistics start from May 2011 but if the values are zero to start with they are not shown. Zero values after the start of use for the archive are shown.



Site name

Project type

A20 Diversion Holm Hill, ARC HOL 98

[Site Archives](#)

A20 Diversion Holm Hill, ARC HOL 99

[Site Archives](#)

Ashenbank Wood Army Camp, ARC AWC 98

[Site Archives](#)

Beechbrook Wood (South Of), ARC BWD 97

[Site Archives](#)

Beechbrook Wood (South of), ARC BWD 98

[Site Archives](#)

Beechbrook Wood, ARC BBW 98

[Site Archives](#)

Blind Lane (West of), ARC BLN 97

[Site Archives](#)



All fields ▾

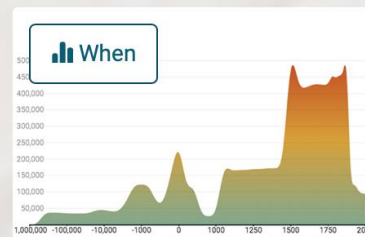
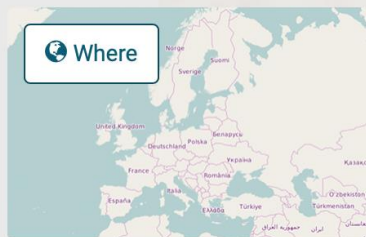
Search for resources in the Ariadne catalog ...



Welcome

Explore the digital resources and services that ARIADNE has brought together from across Europe for archaeological research, learning and teaching.

Browse the Catalog



← Back to search results

Channel Tunnel Rail Link Section 1



Access resource on the web

The Phase 1 archive of the Channel Tunnel Rail Link (CTRL), representing the route of the link from Fawkham Junction (Gravesham) to Folkestone, is a major new research archive for the archaeology of Kent. The construction of the Channel Tunnel Rail Link has provided a unique opportunity to investigate thousands of years of change and development across the landscape and the archaeological programme of works associated with CTRL is probably the largest ever undertaken in the UK. The Link is the first new railway to be built in Britain for over a century and runs for 109km (68 miles) between St Pancras station in London and the Channel Tunnel. The Phase 1 archive represents the first 74 km of this route and was finished in September 2003. The CTRL Phase 1 archive is organised at a site level allowing access to data from 122 interventions and is accompanied by extensive introductory text both at an overall project level as well as the individual site level. The archive itself contains site reports, site datasets and images for 122 excavations, evaluations and geophysical and standing building surveys provided in a number of file formats (RTF, PDF, CSV and SVG). The data can be accessed through any of three search interfaces (a spatial map search, a period search or an advanced search) or alternatively via a full site list. The CTRL archive is also fully integrated into the ADSs ArchSearch catalogue allowing spatial searches to retrieve CTRL site level data alongside archaeological data from a number of other sources such as the National Trust SMR and the National Monuments Record.

 agriculture 

 agriculture 

 residential structures 

 residential structures 

 Early Medieval

 Medieval

 Modern

 Prehistoric

 Roman

 Early Medieval

 Medieval

 Roman

 World, Europe, United Kingdom, England, Kent

Metadata

ARIADNE ID	19138333
Original ID	335
Language	English
Resource type	Fieldwork archives
Subject	<div>agriculture </div> <div>agriculture </div> <div>residential structures </div>

Thematically similar



The Stansted Framework Project



Post-Medieval Fieldwork in Britain and Northern Ireland



Roman Villas in the North of England



Medieval Britain and Ireland



The Danebury Excavations Digital Archive



The Rural Settlement of Roman Britain: an online resource



The Eagle in the Landscape: The Archaeology of the Cotswold Water Park

Crossrail: Archaeological Investigations Conducted in Advance of Construction of the Elizabeth Line

Crossrail Ltd, 2019

Introduction

Site List

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Primary contact

Jay Carver
Crossrail Ltd
25 Canada Square
Canary Wharf
London
E14 5LQ

[Send e-mail enquiry](#)

Resource identifiers

ADS Collection: 2902
DOI: <https://doi.org/10.5284/1055125>
How to cite using this DOI

Introduction

The construction of Crossrail through the heart of London has resulted in one of the most extensive archaeological programmes ever undertaken in the UK. The project has given archaeologists an exceptional opportunity to record important parts of London's history.

The Generic Written Scheme of Investigation (WSI) was prepared in consultation with English Heritage and relevant County and local authority archaeologists to ensure a consistent approach across the route and throughout the life of the project.

One of the core objectives of the Crossrail archaeology programme was the dissemination of archaeology information to the wider archaeological community, together with a focused education and outreach programme for local communities.

Years of research have been carried out to understand the impact that construction will have on the archaeology along the route. Moreover, Crossrail's archaeological team will be producing detailed reports on their findings. All the significant artefacts will be provided to the Museum of London and the Natural History Museum.



Crossrail: Archaeological Investigations Conducted in Advance of Construction of the Elizabeth Line

Crossrail Ltd, 2019

Introduction

Site List

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Primary contact

Jay Carver
Crossrail Ltd
25 Canada Square
Canary Wharf
London
E14 5LQ

[Send e-mail enquiry](#)

Resource identifiers

ADS Collection: 2902
DOI: <https://doi.org/10.5284/1055125>
How to cite using this DOI



Site List

- 18-19 Hanover Square, Bond Street Station (Eastern Ticket Hall) (Crossrail XSG10)
- Blomfield Street Phase 2 Mitigation, 11-12 Blomfield Street (Crossrail XTB12)
- Blomfield Worksite, Liverpool Street, 11-12 Blomfield Street, EC2 (Crossrail XSL10)
- Bond Street Station (Crossrail XSC10)
- City Wall at Old Broad Street (Crossrail XSZ11)
- Connaught Tunnel (Crossrail XSY11)
- Custom House Station, Victoria Dock Road (Crossrail XT113)
- Eleanor Street Shaft (Crossrail XTJ13)
- Farringdon Eastern Ticket Hall, Phase 2 Mitigation, Hayne Street (Crossrail XTE12)
- Farringdon Station, Minor Works and Utility Diversions, Hayne Street (Crossrail XSE10)

Liverpool Street Worksite, Liverpool Street (Crossrail XSM10)

Museum of London Archaeology, 2019

[Introduction](#)

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Introduction

This archive presents the results of an archaeological investigation by MOLA (Museum of London Archaeology) at the site of the Crossrail Central Broadgate Ticket Hall, Liverpool Street, London EC2M, City of London (Museum of London (MoL) sitecode XSM10). The fieldwork comprised a series of watching briefs (targeted and general), evaluations and excavations, conducted between 20/02/11 and 09/10/15. These were undertaken in response to the redevelopment of the site as part of the Crossrail station at Liverpool Street: excavation of the site area to a depth of 25 metres below street level was necessary to provide below-ground concourses and booking halls and escalator access to the platforms. Documents in this archive also incorporate the results of archaeological investigation by the Museum of London Archaeology (MOLA) at the Crossrail 11–12 Blomfield Street site, EC2, in the City of London (sitecodes XSL10/XTB12). These investigations comprised a series of watching briefs (Targeted and General), evaluations and excavations conducted between 24/05/2011 and 23/01/2014.

The site lay 120m north of the Roman town boundary in a landscape dominated by a tributary of the Walbrook stream, which ran along the west edge of the site. The earliest Roman activity focused on draining the site sufficiently to allow burial and road building in the area. Extensive remains of an early 2nd- to 3rd-century AD west–east metalled road were traced across the site, along with several phases of roadside ditches. The road ran west from the main Roman road to the north (later Ermine Street) and may have led to the fort in the north-west corner of Londinium (built in stone after c AD 120). To the south of the road, seven 2nd-century AD inhumation burials, including three decapitations, and one cremation burial formed part of a burial ground in this waterlogged area. Following on earlier such finds, the large assemblage of accompanying disarticulated human bone remains one of the most intriguing



Liverpool Street Worksite, Liverpool Street (Crossrail XSM10)

Museum of London Archaeology, 2019

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[Downloads](#)

[Metadata](#)

[Usage Statistics](#)

Crossrail: Archaeological Investigations Conducted in Advance of Construction of the Elizabeth Line

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Primary contact

Karen Thomas
Head of Archive
Museum of London Archaeology

[Send e-mail enquiry](#)

Downloads

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Reports

The project report (OASIS ID: molas1-111282) associated with this archive is currently awaiting validation and will be added to the ADS Library shortly.

Elsden, N,Hartle, R. (2012). *'C257 Archaeology Central Fieldwork Report, Archaeological Excavated Evaluations and Watching Briefs...Broadgate Ticket Hall (XSM10). C257-MLA-X-RGN-CRG02-50113*. MOLA (Museum of London Archaeology): Salisbury. DOI:[10.5284/1047322](#).

[Go to report](#)

Telfer, A A,Elsden, N. (2013). *C257 Archaeology Central Fieldwork Report, Archaeological Excavation and Watching Briefs, Broadgate Ticket Hall Utilities Combined Report 2013 (XSM10) C257-MLA-T1-RGN-CRG03-50014* . MOLA (Museum of London Archaeology): Salisbury. DOI:[10.5284/1047325](#).

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325 Kb

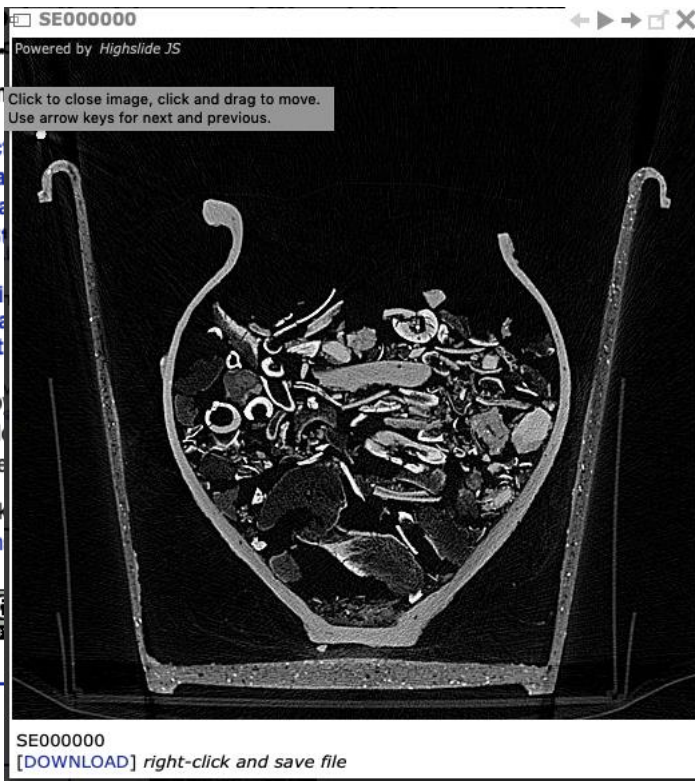
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Primary contact

Karen Thomas
Head of Archive
Museum of London Archaeology

[Send e-mail enquiry](#)

PREVIEW



PREVIEW

(Crossrail XSM10)

[or graphics](#)) | [Spreadsheets](#) | [GIS](#) | [Harris Matrices](#) | [CT Data](#) | [X-ray Data](#)



Digital

- Volume of digital data
- User navigation of archives
- Project-specific recording schemes
- Complexity of data types
- Gaining access to in-house systems
- Engaging with systems dictated by engineering companies rather than archaeologists
 - e.g. BIM vs GIS
 - Proprietary formats
- Currency of data
 - multiple revisions over a long project – evaluation phase etc
- Ensuring / enforcing consistency over long-running projects

Challenges

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Stack SE000000 DICOM metadata

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FileName,FileModifyDate,FileType,FileTypeExtension,
MIMETYPE,FileMetaInfoGroupLength,FileMetaInfoVersion,
MediaStorageSOPClassUID,MediaStorageSOPInstanceUID,TransferSyntaxUID,ImplementationClassUID,
ImplementationVersionName,SpecificCharacterSet,ImageType,SOPClassUID,SOPInstanceUID,StudyDate,
SeriesDate,AcquisitionDate,ContentDate,AcquisitionDate,StudyTime,SeriesTime,AcquisitionTime,ContentTime,
AccessionNumber,Modality,Manufacturer,InstitutionName,InstitutionAddress,ReferringPhysicianName,
StationName,StudyDescription,SeriesDescription,ManufacturersModelName,ReferencedImageSequence,
StartOfItem,SourceImageSequence,IrradiationEventUID,DICOM_0009_0010,PatientName,PatientID,
PatientBirthDate,PatientSex,PatientAge,BodyPartExamined,SliceThickness,KVP,DataCollectionDiameter,DeviceSerialNumber,
SoftwareVersion,ProtocolName,ReconstructionDiameter,DistanceSourceToDetector,DistanceSourceToPatient,
GantryDetectorTilt,TableHeight,RotationDirection,ExposureTime,XRayTubeCurrent,Exposure,FilterType,GeneratorPower,
FocalSpots,DateOfLastCalibration,TimeOfLastCalibration,ConvolutionKernel,PatientPosition,SingleCollimationWidth,
TotalCollimationWidth,TableSpeed,TableFeedPerRotation,SpiralPitchFactor,DataCollectionCenterPatient,
ReconstructionTargetCenterPatient,ExposureModulationType,EstimatedDoseSaving,CTDIvol,CTDIphantomTypeCodeSequence,
CalciumScoringMassFactorDevice,DICOM_0019_0010,PauseInterval,SliceOffsetOnFreqAxis,CenterFrequency,DigitalReceiverGain,
UserData10,StudyInstanceUID,SeriesInstanceUID,StudyID,SeriesNumber,AcquisitionNumber,InstanceNumber,ImagePositionPatient,
ImageOrientationPatient,FrameOfReferenceUID

```

Stack SE000000 DICOM metadata

[\[DOWNLOAD\]](#) right-click and save link

Non-Digital

- Extended Communication Channels
 - Consortia of contractors – not used to working with each other, and often with their own systems
 - Difficulty of talking directly to people doing the work
- Political sensitivities of the development
 - e.g. compulsory purchase / demolition
 - Client confidentiality vs Open Data
 - Not even allowed to talk about it!



Opportunities

Digital

- Integrated access and search across multiple sites
- Opportunity to develop “object-level” metadata, allowing granular search
- Ideally, chance for early planning
 - Digital archiving strategy

ads ARCHAEOLOGY DATA SERVICE

HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT HELP

Cuxton, Kent - Integrated Site Report

Museum of London Archaeology, 2009 (updated 2017)

Introduction
Downloads
Metadata
Usage Statistics

Channel Tunnel Rail Link Section 1

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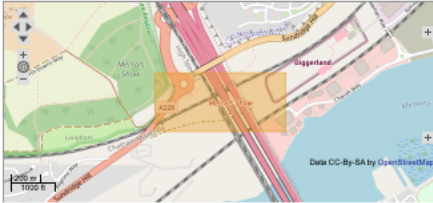
HIGH SPEED

Primary contact
Stuart Foreman
Senior Project Manager
Oxford Archaeology (South)
Janus House
Osney Mead
Oxford
OX2 0ES
UK
Tel: 01865 263800
Fax: 01865 793496
[Send e-mail enquiry](#)

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How to cite using this DOI

MOLA
Museum of London Archaeology

Cuxton, Kent - Integrated Site Report



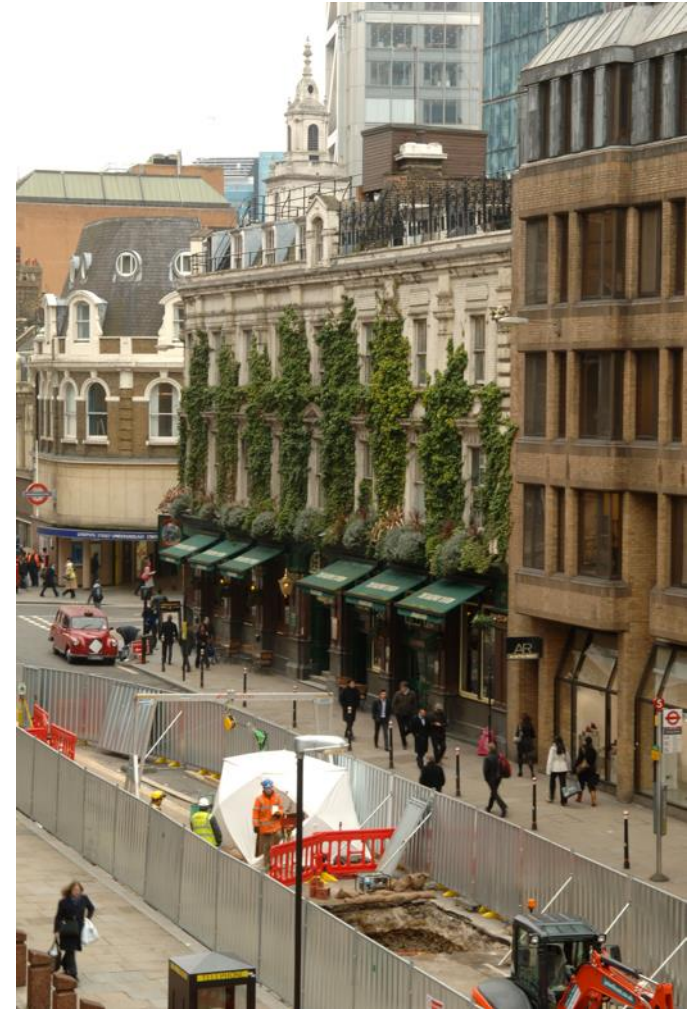
Data CC-BY-SA by OpenStreetMap

World region	British Isles and Ireland		
Location	British Isles	England	
	country	England	
	English region	South East	
	County	Kent	
	Parish	Cuxton	
	TGN	World, Europe, United Kingdom, Ei	
Grid reference	OSGB	S72000 167350	
Grid reference	Latitude	51.381330	
	longitude	0.49643615	0.474847
	bounding box	51.378973	
Event Type (England)	EXCAVATION		
FISH Archaeological Objects (England)	PLANT REMAINS		
FISH Archaeological Objects (England)	LITHIC IMPLEMENT		
FISH Archaeological Objects (England)	BRUQUETAGE		
FISH Archaeological Objects (England)	SPEARHEAD		
FISH Archaeological Objects (England)	SPEAR		
FISH Archaeological Objects (England)	SHIELD BOSS		
FISH Archaeological Objects (England)	SHIELD		
FISH Archaeological Objects (England)	SHEARS		
FISH Archaeological Objects (England)	DEBITAGE		
Library of Congress Subject Headings	Excavations (Archaeology)–England		
Monument Type (England)	TRACKWAY		
Monument Type (England)	STORAGE PIT		
Monument Type (England)	STAKE HOLE		
Monument Type (England)	SETTLEMENT		
Monument Type (England)	SALT PAN		
Monument Type (England)	RUBBISH PIT		
Monument Type (England)	ROUND HOUSE (DOMESTIC)		
Monument Type (England)	RITUAL PIT		
Monument Type (England)	POST HOLE		
Monument Type (England)	PIT		
Monument Type (England)	MOUND		
Monument Type (England)	LITHIC SCATTER		
Monument Type (England)	INHUMATION CEMETERY		
Monument Type (England)	HUT		
Monument Type (England)	GRAIN STORAGE PIT		
Monument Type (England)	FARMSTEAD		
Monument Type (England)	ENCLOSURE		
Monument Type (England)	CURVILINEAR ENCLOSURE		
Monument Type (England)	CROUCHED INHUMATION		
Monument Type (England)	COFFIN		
Monument Type (England)	CEMETERY		
Monument Type (England)	CANOPIED TOMB		
Monument Type (England)	BARROW		
Monument Type (England)	TREE THROW		
Other	Integrated Site Report		
Period (England)	EARLY IRON AGE		

Opportunities

Non-Digital

- Training of archaeological contractors
 - Embedding archivists with field archaeologists
- Providing exemplars of best practice
 - High profile projects – public impact
- Budget to allow innovation?
 - e.g. integrated publications & archives
- For research
 - Enabling major works of synthesis, underpinned by reliable data collected to a consistent standard



Museum of London Archaeology (2019) *Liverpool Street Worksite, Liverpool Street (Crossrail XSM10)* <https://doi.org/10.5284/1055107>

Economic Benefit

Beagrie/ Houghton 2014:

- Investment value £1.2m pa
 - £698,000 pa funding from sponsors
 - £465,000 pa indirectly contributed by depositors
- Direct use value £1.4m pa
- But efficiency impacts £13m-£58m per annum
- Research efficiency gains = 7 hours per person per week
- **£1 investment provides up to £8.30 return**



**CENTRE FOR STRATEGIC
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