ARCHAEOLOGY DATA SERVICE

Not the End of the Line: Data selection and sustainability in the Crossrail archive

Part Two: The Digital Archive at the ADS

Kieron Niven, Archaeology Data Service

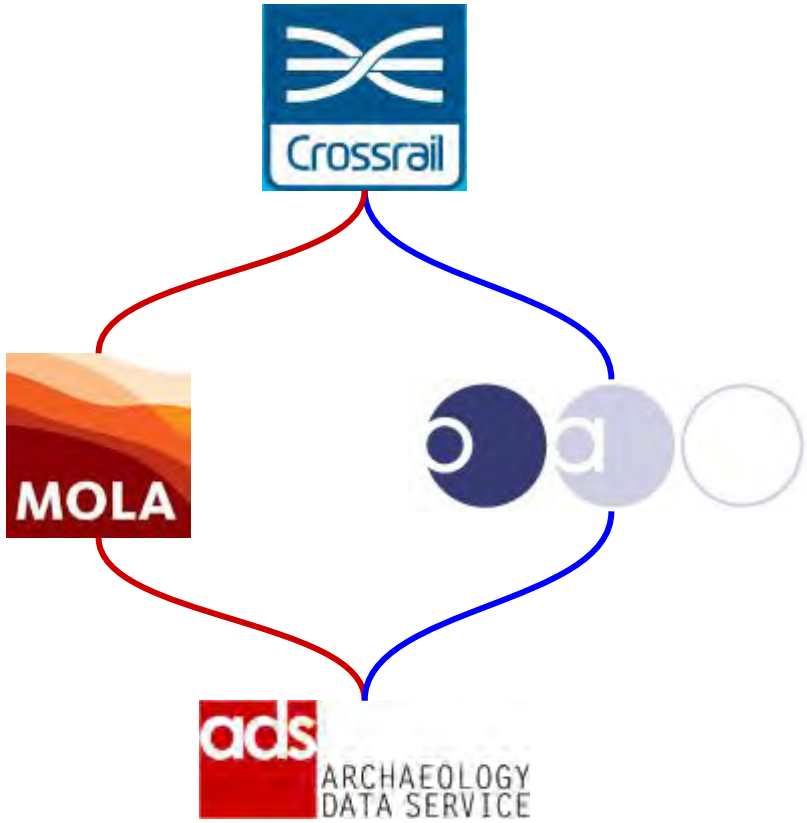
Outline

This presentation will focus on:

- Just the digital data
- Its size and content
- Project planning and deposition
- Largely focussed on the MOLA project archives

Programme Overview

- Crossrail specify overarching archive content, dissemination structure, and licencing the data deposit.
- MOLA and OA undertaking the work, selection processes, and deposit.
- ADS as the primary digital archive



Programme Overview

In addition to the ADS archives:

- Crossrail 360 VR exhibition
- Crossrail Archaeology website
- MOLA and OA publications

Numerous other Crossrail outputs

ARCHAEOLOGY REPORT ARCHIVE

Introduction

Crossrail's archaeology programme has produced an extensive 'grey literature' library (grey literature is the term for content produced in the course of research which does not form part of the eventual published academic papers). This consists of built heritage and archaeology fieldwork reports, desk-based assessments, and Written Schemes of Investigation (WSIs).

This archive provides public access to these resources. Copies shall also be included in the full fieldwork archives that are provided to the London Archaeological Archive and Research Centre (LAARC) for works in London and other local authority Historic Environment Records (HER) for works that were undertaken outside Greater London.

Archive items deposited with the LAARC or HERs shall also include the primary fieldwork records and digital components such as CAD, GIS, and database files, photographs and other primary research materials.

Organisation

The archive is organised as a series of geographic datasets that contain documents related to a specific location. Dates attributed to each document are the date of the latest accepted version and may not reflect the date the document was first produced or the year in which the actual work was undertaken.

Scope

The current (2016) content is limited to works undertaken in the Crossrail Central Section (Old Oak Common to Stratford and Plumstead). Further reports that have been produced for the outer sections of the Crossrail Route shall be made available in due course.

Learning Legacy Themes

Environment

- Environmental Requirements
- Environmental Management
- Air Quality
- Biodiversity
- Resource Management
- Energy Efficiency and Carbon
- Environmental Design
- Environmental Behaviours and Incentives
- Noise and Vibration

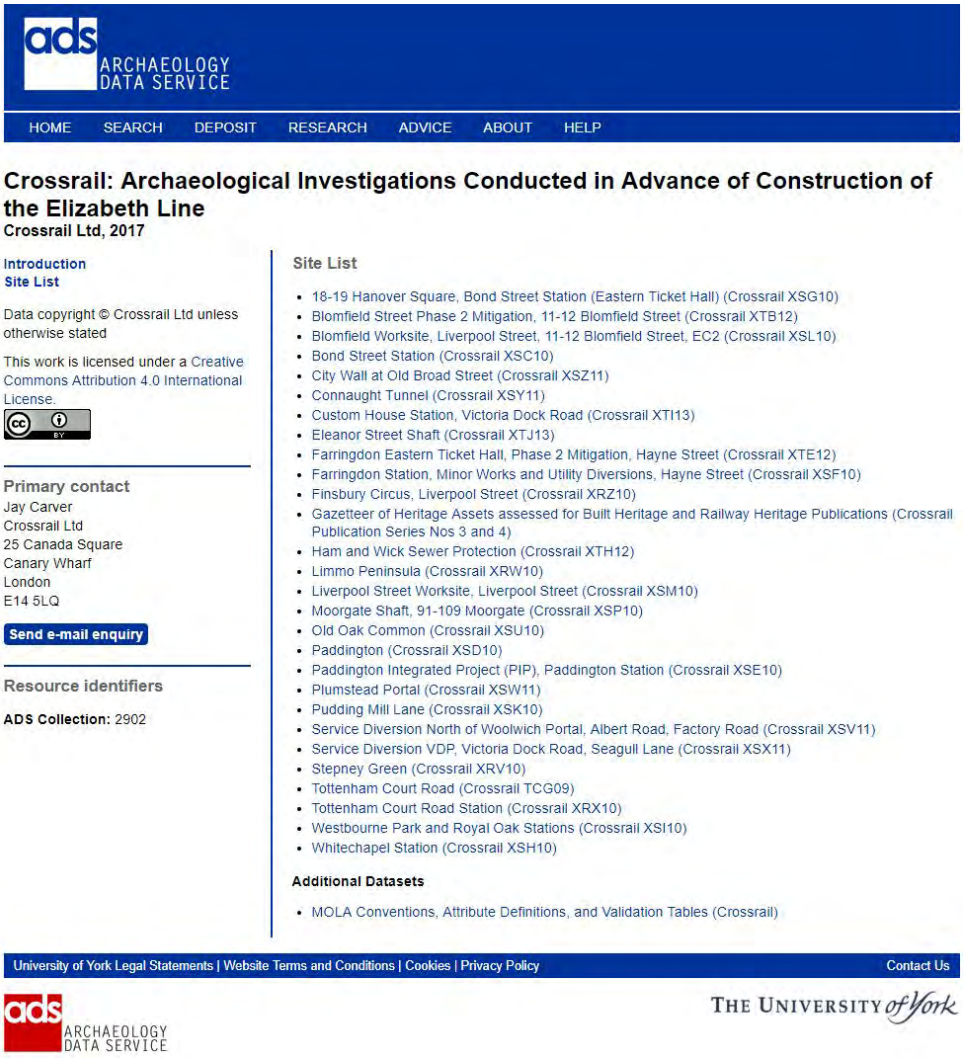
Archaeology

- Archaeology Report Archive
- Environment Webinar Series

Programme Timeline

Summary of the archive:

- Project started during 2016 with initial discussions
- Finished January 2019 with final deposit (will be released April 2019)
- Covers 29 sites/archives: 21 from MOLA, 8 from OA



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HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT HELP

Crossrail: Archaeological Investigations Conducted in Advance of Construction of the Elizabeth Line
Crossrail Ltd, 2017

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

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 XTI13)
- 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 XSF10)
- Finsbury Circus, Liverpool Street (Crossrail XRZ10)
- Gazetteer of Heritage Assets assessed for Built Heritage and Railway Heritage Publications (Crossrail Publication Series Nos 3 and 4)
- Ham and Wick Sewer Protection (Crossrail XTH12)
- Limmo Peninsula (Crossrail XRW10)
- Liverpool Street Worksite, Liverpool Street (Crossrail XSM10)
- Moorgate Shaft, 91-109 Moorgate (Crossrail XSP10)
- Old Oak Common (Crossrail XSU10)
- Paddington (Crossrail XSD10)
- Paddington Integrated Project (PIP), Paddington Station (Crossrail XSE10)
- Plumstead Portal (Crossrail XSW11)
- Pudding Mill Lane (Crossrail XSK10)
- Service Diversion North of Woolwich Portal, Albert Road, Factory Road (Crossrail XSV11)
- Service Diversion VDP, Victoria Dock Road, Seagull Lane (Crossrail XSX11)
- Stepney Green (Crossrail XRV10)
- Tottenham Court Road (Crossrail TCG09)
- Tottenham Court Road Station (Crossrail XRX10)
- Westbourne Park and Royal Oak Stations (Crossrail XSI10)
- Whitechapel Station (Crossrail XSH10)

Additional Datasets

- MOLA Conventions, Attribute Definitions, and Validation Tables (Crossrail)

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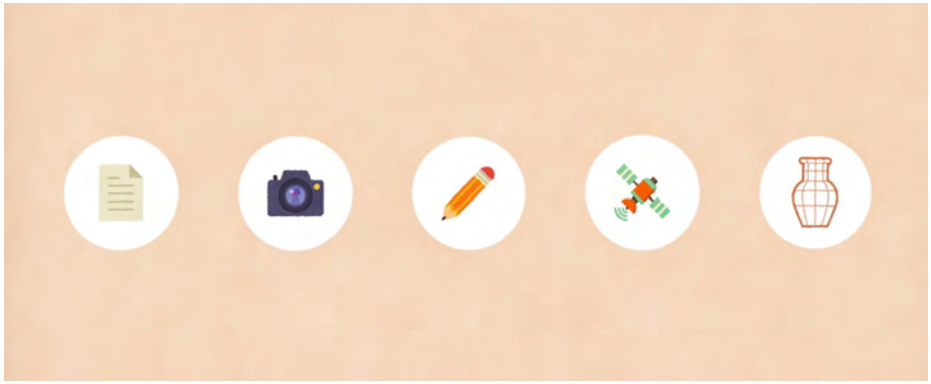
Data Overview

So where did we start?

- Planning for the archive
- Visited MOLA in Feb. 2017
- Discussed deposit formats
- Metadata requirements. What is already in place? (MOLA registers)



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102	09911006.tif	XSM10	NW	GENERAL SITE VIEW FROM THE RAILWAY TAVERN PUB								MOLA	Crossrail/MOLA	
103	09911007.tif	XSM10	NW	GENERAL SITE VIEW FROM THE RAILWAY TAVERN PUB								MOLA	Crossrail/MOLA	
104	09911008.tif	XSM10	NW	GENERAL SITE VIEW FROM THE RAILWAY TAVERN PUB								MOLA	Crossrail/MOLA	
105	09911009.tif	XSM10	W	TRENCH 7 - DITCH [229]. WEST AT TOP				229	P	C 1000/1450. TRUNCATED		MOLA	Crossrail/MOLA	
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107	09911011.tif	XSM10	W	TRENCH 7 - EXCAVATING DITCH 229. WEST AT TOP. WORKING SHOT WITH MG				229	P	C 1000/1450. TRUNCATED		MOLA	Crossrail/MOLA	
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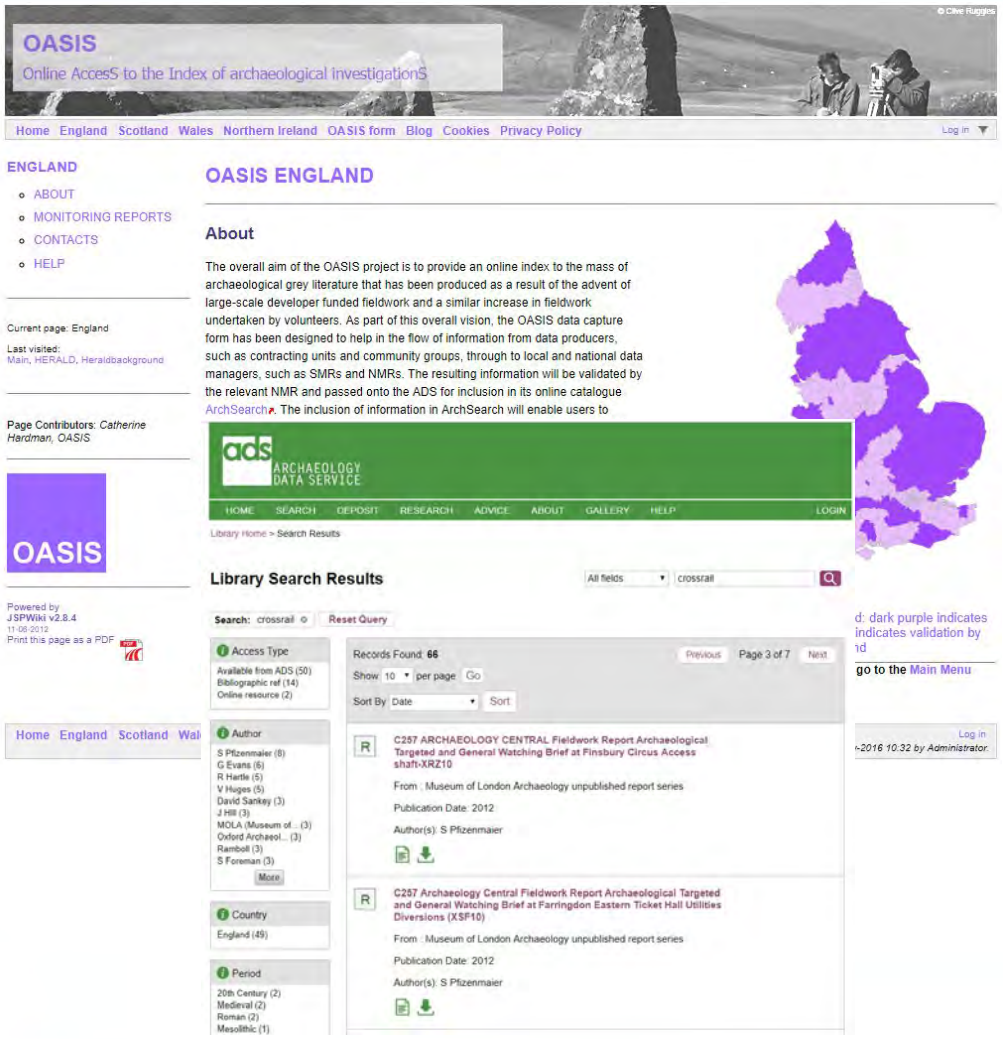
117	11011004.tif	XSM10	NW	TR13. WORKING SHOT WITH RGH				268	SK	JULY 1569 TO 1 MARCH 17		MOLA	Crossrail/MOLA	

Data Overview

- OASIS records being created
- Avoid data duplication
- Allow reuse of metadata (site level)
- Ensure these are linked at deposit (ADS Library)



Data Overview

- Look at potential ‘unexpected’ data
- CT and x-ray datasets
- File formats (DICOM)
- Metadata requirements

Data Delivery

- Deposit process started March - May 2017
- Finished January 2019 (final MOLA archive)
- Data selection largely by MOLA and OA
- Site-by-site approach - allowed minor issues to be dealt with as they occurred rather than at end of project.

The Archive

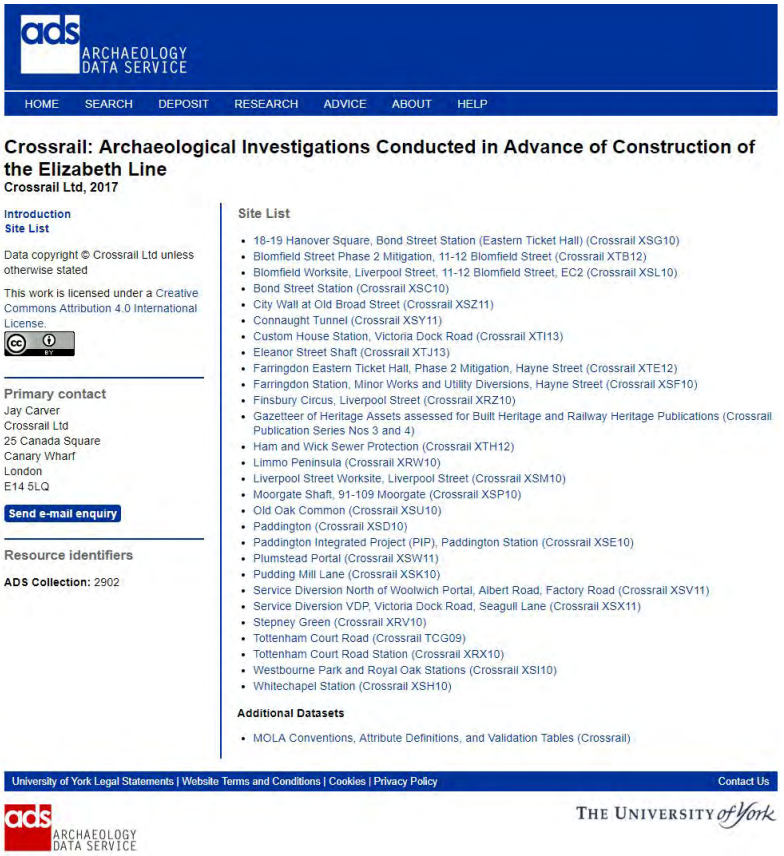
What was delivered?

- 29 site archives

- 17,512 files: 16,440 from MOLA
- 1,072 from Oxford Archaeology

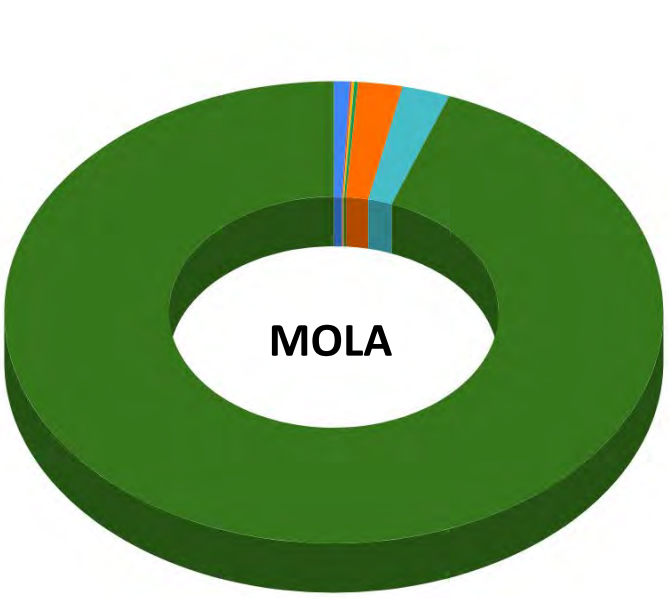
- 113GB in total

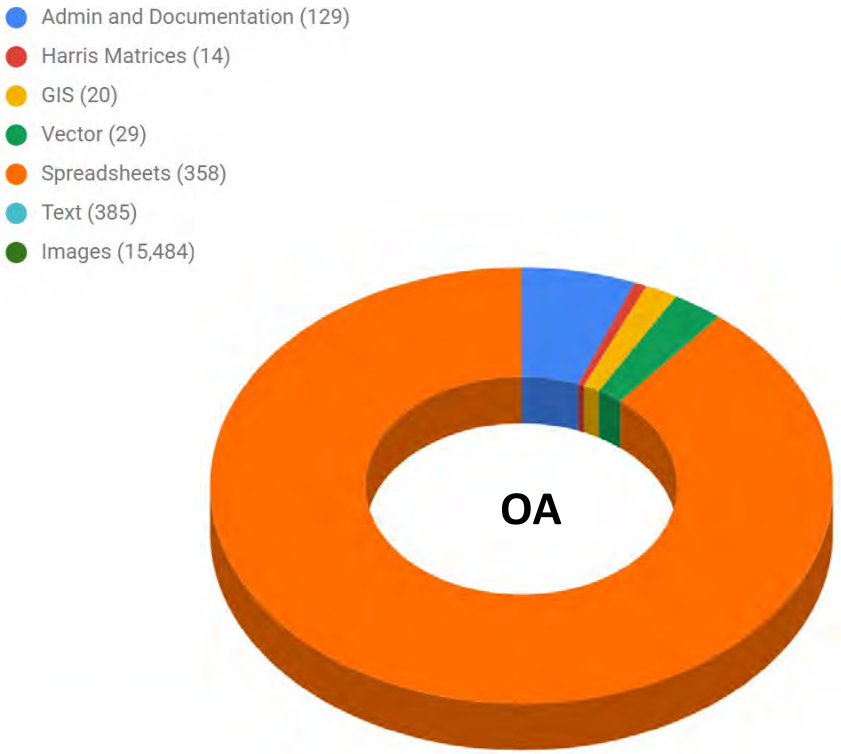
- Transfer of data by a variety of means: web transfer, email, hard disc.

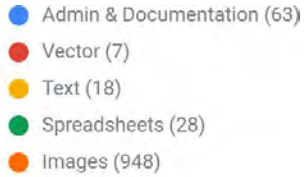


The Archive

- Large amount of data in a small number of formats

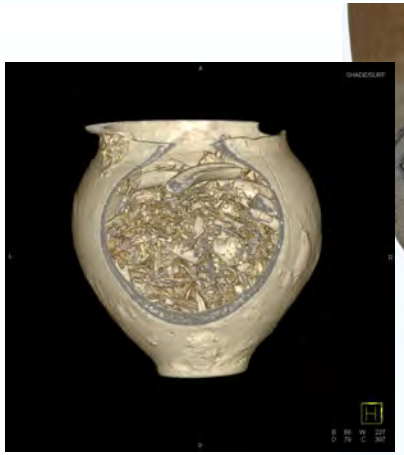


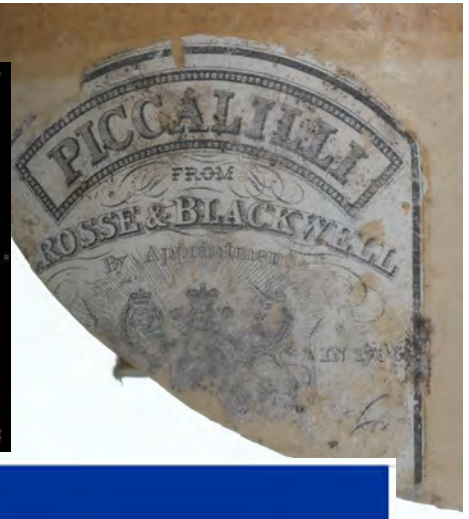


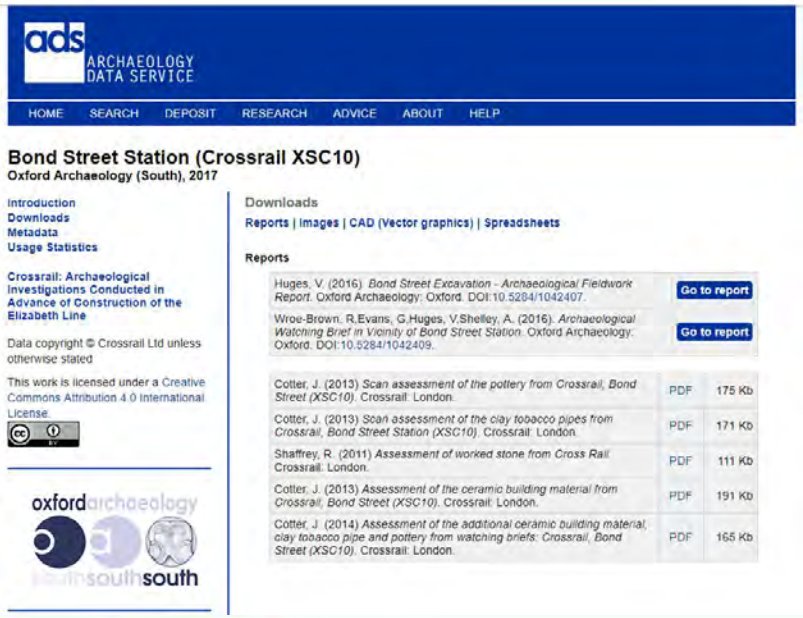


The Archive

- Range of content within limited variety of formats
- Site Reports
- Specialist Reports
- Images
- GIS, CT, X-rays, Harris Matrices







Selection and Sustainability

- How does selection influence sustainability?

"The entire archive must be compiled in a way that preserves relationships between each element and facilitates access to all parts in the future."

ARCHES European standard core principle #5

Key Points

- Data **formats** can be an issue BUT limiting formats can aid ingest, preservation and, ultimately, long-term sustainability
- Archive **structure** is essential when data quantity is high, for both access and management
- **Rich metadata** facilitates discovery, access, and reuse at various levels
- Reuse of **existing metadata** (e.g. MOLA registers) and data flows saves times, avoids duplication, and allows other points of access (e.g. ADS Library)