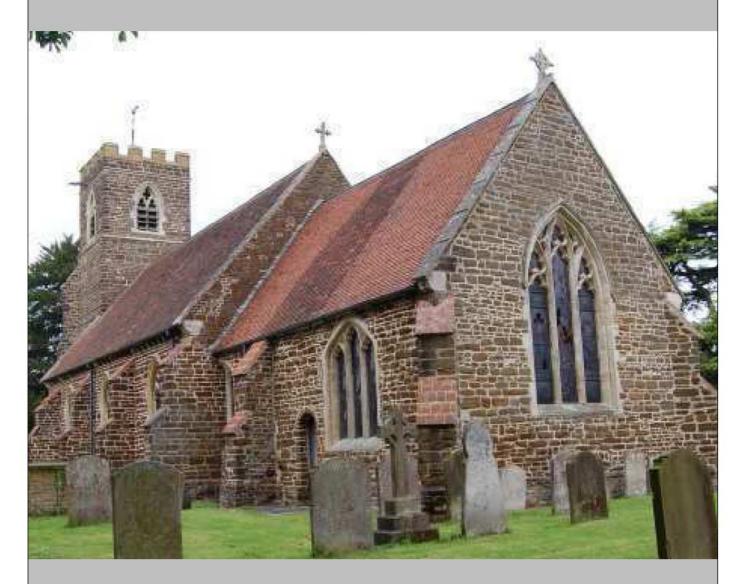


HERITAGE NETWORK



ST JAMES' CHURCH, Pulloxhill, Beds.

HN806

Archaeological Monitoring Report



THE HERITAGE NETWORK LTD

Registered with the Institute of Field Archaeologists as an Archaeological Organisation Archaeological Director: David Hillelson, BA MIFA

ST. JAMES' CHURCH Pulloxhill, Beds.

HN806

Archaeological Monitoring Report

Prepared on behalf of Pulloxhill Parochial Church Council
by
Mark Winter, BSC PGDIP AIFA

Report no. 535

May 2009

© The Heritage Network Ltd

Contents

	Summary	Page i
Section 1	Introduction	Page 1
Section 2	Fieldwork	Page 2
Section 3	Discussion	Page 6
Section 4	Schedule of site visits	Page 7
Section 5	Bibliography	Page 7
Section 6	Illustrations & Plates	following Page 7
Appendix	Oasis record	

The cover photo shows St James' Church looking west

Acknowledgements

The fieldwork for this project was carried out by David Hillelson. The report was compiled by Mark Winter and edited by David Hillelson.

The Heritage Network would like to express its thanks to Pamela J. Ward, Chartered Architect, and David Baker, Diocesan Archaeological Adviser, for their co-operation and assistance in the execution of this project.

Summary

Site name and address:	St. James' Church, Pulloxhill, Bedfordshire, MK45 5HD			
County:	Bedfordshire	District:	Mid Bedfordshire	
Village/town:	Pulloxhill	Parish:	Pulloxhill	
Planning reference:	n/a	NGR:	TL 0616 3380	
Client name and address:	Pulloxhill Parochial Church Council, c/o Pamela J. Ward, Chapel Farm,			
	Whipsnade, Dunstable,	Bedfordshire, LU6 2LL		
Nature of work:	Drainage trenching	Former land use:	Churchyard	
Site Status:	n/a	Reason for investigation:	Faculty jurisdiction	
Position in planning process:	n/a	Project brief originator:	Diocesan Archaeological	
			Adviser	
Size of affected area:	$c.22m^2$	Size of area investigated:	c.4.5m ²	
Site Code:	HN806	Other reference:	n/a	
Organisation:	Heritage Network	Site Director:	David Hillelson	
Project type, methods etc	Monitoring	Archive Recipient:	n/a	
Start of work	23/04/2009	Finish of work	23/04/2009	
Related SMR Nos:	n/a	Periods represented:	None	
Oasis UID:	Heritage1-58905	Significant finds:	Human bone	
Monument types:	Graves			
Physical archive:	None	<u> </u>		
Previous summaries/reports:	n/a			

Narratives

During excavation of a new drainage trench at St James' Church, Pulloxhill, human remains were encountered. As a result the Heritage Network was commissioned by Pulloxhill Parochial Church Council to carry out a programme of archaeological monitoring on the remaining works.

This investigation revealed the presence of at least 10 graves, containing at least 7 adults and 4 juveniles. A more detailed assessment of age and sex was not possible due to the partial recovery and poor condition of the

HN806\report

St. James'	Church,	Pulloxhill
------------	---------	------------

Archaeological Monitoring Report

remains.

1. Introduction

- 1.1 This report has been prepared on behalf of the *Pulloxhill Parochial Church Council*, as part of a programme of archaeological observation and recording of groundworks in the churchyard of St James', Pulloxhill, Beds. The archaeological fieldwork was undertaken upon discovery of human remains during excavation of a drainage trench on site and with the agreement of the Diocesan Archaeological Adviser. All work followed the standard guidance for archaeological work in churchyards provided by the Association of Diocesan and Cathedral Archaeologists.
- 1.2 The church and churchyard are situated in the centre of the village of Pulloxhill, centred on NGR TL 0616 3380 (Figure 1). The present church has medieval origins with later alterations and is a grade II* listed building (heritagegateway).
- 1.3 The groundworks were associated with the construction of toilet facilities in the church. The work was initially conducted without archaeological supervision but the Heritage Network was subsequently commissioned to monitor the work when human remains were encountered within a drainage trench.
- 1.4 The aim of the monitoring and recording programme has been to record the location, extent, date, character, condition, significance and quality of the surviving archaeological remains and to excavate and record such as would be likely to be destroyed by the works.

2. Fieldwork

SITE TOPOGRAPHY AND GEOLOGY

- 2.1 The study area is centred on NGR TL 0616 3380, at approximately 105mAOD (Figure 1). The churchyard is bordered to the northwest by Church Road, to the northeast by properties along Orchard Road, to the southeast by fields and to the southwest by Rectory Farm.
- 2.2 The site lies on the boundary between two different soil types. The first type are derived from the Evesham 3 Association (411c) which are associated with Jurassic and Cretaceous clays and described as
 - 'Slowly permeable calcareous clayey, and fine loamy over clayey soils. Some slowly permeable seasonally waterlogged non-calcareous soil' (SSEW 1983).
- 2.3 The second type are derived from the Ashley Association (572q) which are associated with Chalky till and described as

'Fine loamy over clayey soils with slowly permeable subsoils and slight seasonal waterlogging associated with similar but wetter soils. Some calcareous and non-calcareous slowly permeable clayey soils' (SSEW 1983).

METHODOLOGY

- 2.4 The timetable for the fieldwork followed the client's groundwork schedule. A single site visit was made to monitor the groundworks.
- 2.5 The machining of the pipe trench was undertaken using a tracked mini-digger. This was fitted with a 0.45m toothed bucket. Spoil from the groundworks was inspected for archaeological artefacts.
- 2.6 Where possible human remains were photographed and located but preserved in situ. Remains which had been disturbed during excavation were taken to the Heritage Network office to be broadly assessed for age at death, sex and any sign of obvious gross pathology. Age at death was ascertained by recording the degree of bone fusion, with specific reference to the cranial sutures and epiphyses of the long bones, and examining the levels of dental development and wear (Scheuer and Black). Remains were then categorised as Adult (fully fused, with complete adult dentition in wear), sub-adult (largely fused skeleton of near adult proportion, some deciduous dentition) or juvenile (little or no fusion, predominantly deciduous dentition). Sex was inferred from observation of a series of gender specific traits observed on the pelvis and cranium. The pelvis is considered the most reliable indicator of sex in the human skeleton (Buikstra and Ubelaker 1994, p16) and where possible changes were observed on the ventral arc, sub pubic concavity and ischiopubic ramus ridge. These changes were scored as:

Blank -unobservable

HN806\report

- 1- Female
- 2- Ambiguous
- 3- Male

Changes in the greater sciatic notch were also noted and recorded as:

- 1- Female
- 2- Probably female
- 3- Ambiguous
- 4- Probably male
- 5- Male

In addition to these morphological differences a number of gender specific traits were also observed on the cranium. These differences were based at the nuchal crest, mastoid process, supra-orbital margin, supra-orbital ridge and mental eminence. Each of these was rated as follows:

- 1- Female
- 2- Probably female
- 3- Ambiguous
- 4- Probably male
- 5- Male

A more comprehensive assessment was not conducted on these remains due to the low number and incomplete recovery of individuals.

2.7 No *Project Design* was requested for the present project. However, all work followed the practice recommended by the association of Cathedral and Diocesan Archaeologists, and the current standards and guidelines published by English Heritage, the Institute of Field Archaeologists, and others.

SERVICE TRENCH

- 2.8 One service trench was observed. The trench ran in a northwest to southeast direction from the church gate to the church tower and measured c.0.45m wide, reaching a depth of up to 1.00m (Figure 2).
- 2.9 The stratigraphy of this trench consisted a 0.08m thick tarmac path over a 0.06m thick yellowish brown (10YR 5/6) gravel levelling layer. Beneath this was a dark yellowish brown (10YR 3/6) silty clay cemetery soil measuring up to 0.86m thick. At the bottom of the trench the yellowish brown (10YR 5/8) sandy gravel natural was encountered.
- 2.10 Excavations on site revealed a total of at least 10 graves (Figure 3), none of which appeared to have either grave goods or evidence for coffins:

Grave 1 (Plate 1)

2.11 Grave 1 had been heavily disturbed prior to the Heritage Network's arrival on site. Despite this the cervical vertebra and right side clavicle, scapula and humerus were all evident, protruding from the trench section at a depth of 0.90m below the existing ground level. A large amount of material was recovered from this area and taken to the Heritage Network offices for

HN806\report

assessment. This revealed the presence of elements from the skull, torso, arm, upper leg and foot. Given the orientation of the remains still present in the trench it therefore seems that two individuals were encountered in this area. The first consisting of a skull and upper elements of the torso and the second consisting of the lower body. All elements associated with these individuals appear fully fused and adult in nature but the poor level of preservation and high degree of fragmentation makes ascertaining sex of the individuals impossible.

Grave 2 (Plate 1)

2.12 Grave 2 contained a skull at a depth of 0.90m below the surface. This appears to be of adult size and completely fused and was contained within a clearly defined grave cut. Given the position of the body in the trench it is possible that some elements recovered near Grave 1 belong to this individual.

Grave 3 (Plate 1)

2.13 Grave 3 contained a skull at a depth of 0.70m below the ground surface. These remains appear to be fully fused and of adult size and, given its location, it is unlikely that any other material recovered from the site is associated with this individual.

Graves 4, 5 and 6 (Plate 2)

- 2.14 These graves were all located very closely together. Grave 4 contained a skull at a depth of 0.90m below the surface and was observed within a grave cut. Grave 5 contained a badly damaged skull, possibly of a child, at a depth of 0.90m below the ground surface. Grave 6 appears to be a left and right tibia and may represent the lower limbs of Grave 4. This was observed at a depth of 0.90m below the surface.
- 2.15 A quantity of bone from near these graves was recovered and brought to the Heritage Network offices for further analysis. These remains belonged to the skull, torso and upper limb. The remains were also largely unfused suggesting that this individual was a juvenile, and these remains are most likely from Grave 5. Two left humeri were observed here indicating that two individuals are represented within these remains, both of which can be considered as juveniles.

Grave 7 (Plate 3)

2.16 Grave 7 contained a skull at a depth of 0.60m below the existing ground surface. These remains appear to be fully fused and of adult size.

Grave 8 (Plate 3)

2.17 Grave 8 may represent a pelvis and was observed at a depth of 0.55m below the ground surface. Further remains were disturbed in this area and brought to the Heritage Network office for further analysis. These appear to represent the pelvis, lower limbs and feet of at least two individuals. Examination revealed that these elements were largely unfused, suggesting that these individuals were juveniles.

Grave 9 (Plate 4)

2.18 Grave 9 appears to contain a left and right tibia at a depth of 0.80m below the existing surface. Further remains recovered from near this grave include elements of the torso and the left side of the mandible. This individual appears to be of adult size and has adult dentition.

Page 4

Examination of the mandible revealed heavy wear on the premolars and third molar and the absence of the first and second molars with complete remodelling of the sockets.

Grave 10 (Plate 5)

2.19 Grave 10 contained a skull and redeposited humerus at a depth of 0.80m below the ground surface. These elements appear to be of adult size and fully fused.

Unstratified

2.20 A small quantity of bone which did not appear to belong to any other graves was recovered from the trench. This consisted of a cervical vertebra, 2 thoracic vertebrae, a right side perinatal femur, radius and ulna and the proximal third of an unfused right tibia. The unfused nature of these remains is further evidence for the burial of juveniles on the site.

3. Discussion

- 3.1 St James' is a largely medieval church with 19th century alterations. The building is Grade II* listed and a further 17 Grade II listed buildings are recorded within 1km. A watching brief conducted on the excavation of a French drain at the church in 1999 revealed the medieval foundations of the church and its original layout, as well as blocked doorways and windows. Another watching brief, conducted in 1991 during the laying of a new gas pipeline 250m to the northwest, revealed evidence of modern agricultural activity as well as medieval pottery. An evaluation conducted at Flitton Road, 500m to the northeast, revealed a pit containing late Neolithic/early Bronze Age pottery as well as some later features.
- 3.2 A total of 10 graves, containing at least 11 individuals, were recorded during this project. These individuals appear to comprise represent 7 adults and 4 juveniles, unfortunately it was not possible to assign sex to any of the adults due to the poor condition and partial recovery of the remains.
- 3.3 No dating evidence in the form of grave goods, personal possessions, coffin furniture or nails was revealed to indicate the age of the burials investigated. Nevertheless the location of these burials across the present access path and on a slightly different orientation to the existing grave monuments suggests that they predate the last reorganisation of the churchyard which may be contemporary with the rebuilding of the church in the mid 19th century.

CONFIDENCE RATING

- 3.4 The Heritage Network was not commissioned to undertake this project until human remains were disturbed on the site. All other conditions during the course of the fieldwork, including weather and ground conditions, were generally good for the identification of potential features and deposits, and for their investigation.
- 3.5 There are no further circumstances, which would lead to a confidence rating for the present project, which is less than High.

4. Schedule of Site Visits

Date	Staff	Hours	Comments
23/04/09	DJH	10	Monitor drainage

5.Bibliography

Baker, D., 2009, Model Brief for Archaeological Investigation, Recording and Reporting

Buikstra, J. and Ubelaker, D. (eds.) 1994, Standards for Data Collection from Human Skeletal Remains, Arkansas Archaeological Survey Research Series No. 44

Institute of Field Archaeologists, 1999, Standard and Guidance for Archaeological Field Evaluation.

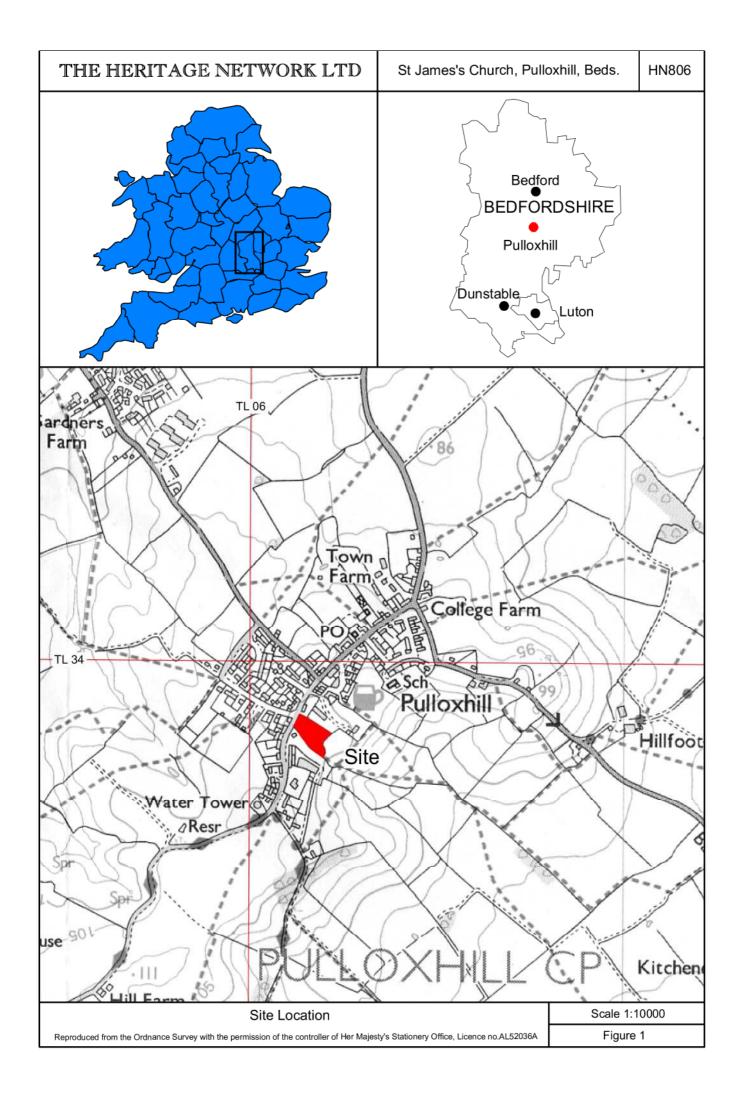
Scheuer, L. and Black, S. 2000, *Developmental Juvenile Osteology*, Elsevier Academic Press, London

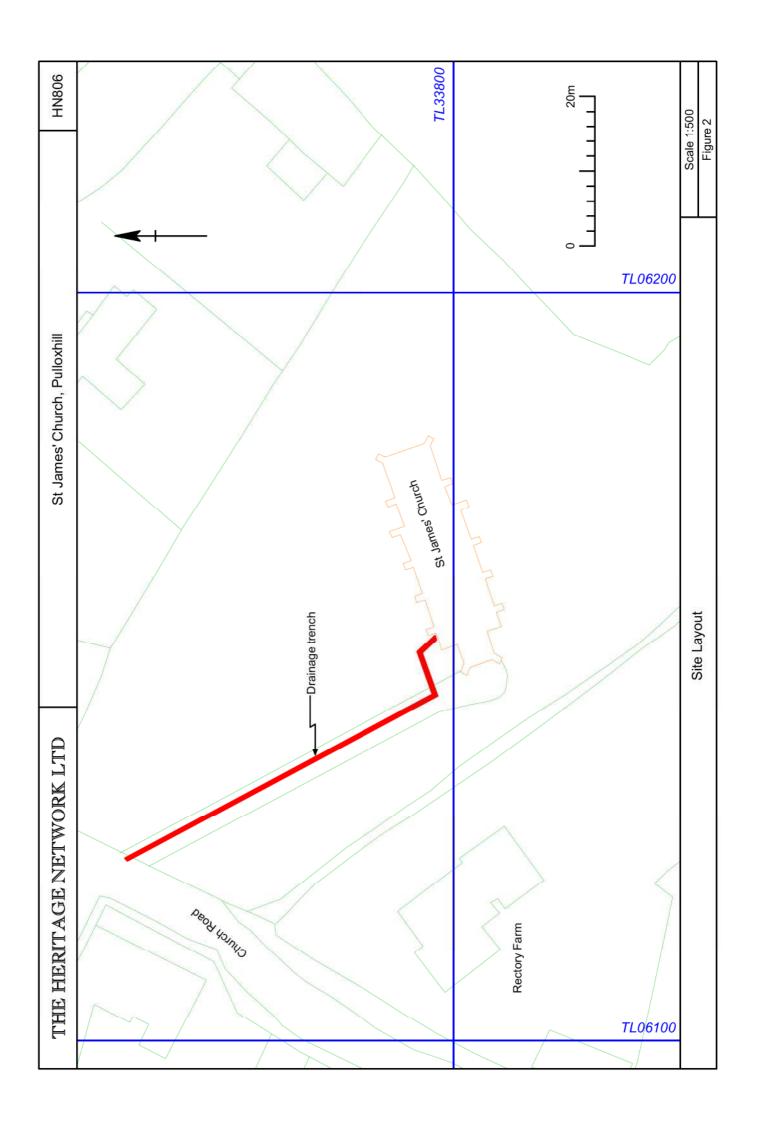
Soil Survey of England and Wales 1983 Soil Map Sheet 4, Eastern England, Scale 1:250,000

6.Illustrations & Plates

Figure 1	Site location
Figure 2	Site layout
Figure 3	Grave layout
Plate 1	Graves 1-3, looking east
Plate 2	Graves 4-6, looking east
Plate 3	Graves 7-8, looking east
Plate 4	Grave 9, looking east
Plate 5	Grave 10 looking east

Page 7





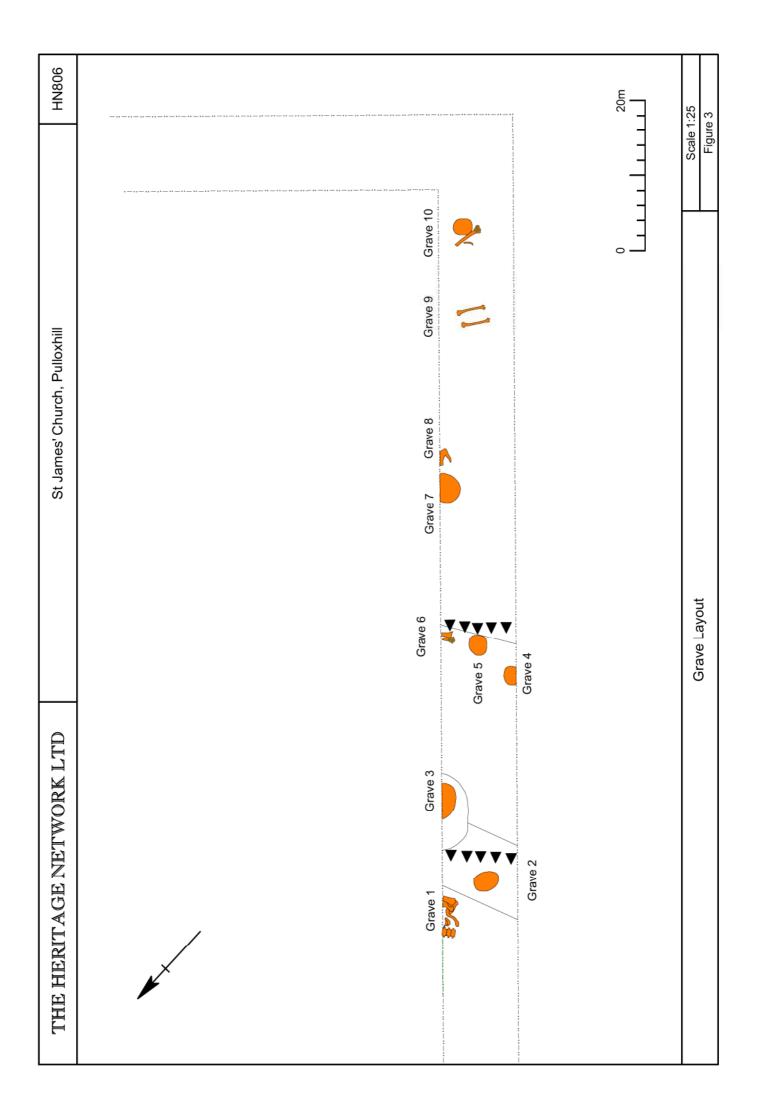




Plate 1: Graves 1-3, looking east



Plate 2: Graves 4-6, looking east



Plate 3: Graves 7-8, looking east



Plate 4: Grave 9, looking east



Plate 5: Grave 10, looking east

Appendix

Short description of the project remains were encountered. As a repulloxhill Parochial Church Cour monitoring on the remaining works 10 graves, containing at least 7 adul	age trench at St James' Church, Pulloxhill human result the Heritage Network was commissioned by neil to carry out a programme of archaeologicals. This investigation revealed the presence of at least ts and 4 juveniles. A more detailed assessment of age partial recovery and poor condition of the remains.
During excavation of a new drain remains were encountered. As a remaining works 10 graves, containing at least 7 adult and sex was not possible due to the peroject dates Project dates Start: 23-04-2009 End: 23-04-2009 Previous/future work Any associated project reference HN806 - Contracting Unit No.	result the Heritage Network was commissioned by neil to carry out a programme of archaeological s. This investigation revealed the presence of at least ts and 4 juveniles. A more detailed assessment of age
Short description of the project Pulloxhill Parochial Church Cour monitoring on the remaining works 10 graves, containing at least 7 adul and sex was not possible due to the project dates Start: 23-04-2009 End: 23-04-2009 Previous/future work No / No Any associated project reference HN806 - Contracting Unit No.	result the Heritage Network was commissioned by neil to carry out a programme of archaeological s. This investigation revealed the presence of at least ts and 4 juveniles. A more detailed assessment of age
Previous/future work No / No Any associated project reference HN806 - Contracting Unit No.	
Any associated project reference HN806 - Contracting Unit No.	
project reference HN806 - Contracting Unit No.	
, , , , , , , , , , , , , , , , , , ,	
Type of project Field evaluation	
Site status None	
Current Land use Other 4 - Churchyard	
Monument type GRAVE Uncertain	
Significant Finds HUMAN BONE Uncertain	
Methods &	
techniques 'Test Pits'	
1	elephone, TV cable, water, sewage, drainage etc.)
Prompt Faculty jurisdiction	replicite, 1 v cable, water, sewage, dramage etc.)
Position in the	
planning process Project location	
-	
	CHIDE DITLIOVIII I St Iomas Charel Dalloybill
Postcode MK45 5HE	SHIRE PULLOXHILL St James Church, Pulloxhill
Study area 22.00 Square metres	2606922007 51 50 21 N 000 27 12 W D-i-4
	3696822997 51 59 31 N 000 27 13 W Point
Height OD / Depth Min: 105.00m Max: 105.00m	
Project creators Name of	
Heritage Network	
Organisation Desirat brief	
Project brief None None	
Project design	
originator	
Project	
director/manager David Hillelson	
Project supervisor David Hillelson	
Type of	
sponsor/funding body Developer	
Name of Pulloyhill Parochial Church Council	
sponsor/funding body	·
Project archives	
Physical Archive No	
Exists?	
Digital Archive recipient Bedford Museum	
Digital Media available 'Images raster / digital photography'	
Paper Archive Bedford Museums	

recipient	
Paper Media available	'Diary','Drawing','Photograph','Plan','Report'
Project bibliography	1
Publication type	Grey literature (unpublished document/manuscript)
Title	St James' Church, Pulloxhill, Beds:Archaeological Monitoring Report
Author(s)/Editor(s)	Winter, M.
Other bibliographic details	Report 535
Date	2009
Issuer or publisher	Heritage Network
Place of issue or publication	Letchworth, Hertfordshire
Description	A4 booklet, comb bound, green cover, 7 pages, 3 figures, 5 plates