

Centre for Archaeology	
Scientific Dating Service	,

Details of Radiocarbon Sample

For Dating Lab use Lab No	
Result	
$\delta^{l3}C$:	
$\delta^{l5}N$:	
Other lab nos	

Please complete this form for every radiocarbon sample which you wish to submit for dating. The detailed information requested is essential for the assessment and full scientific publication of your samples and may be published verbatim. Incorrect or incomplete submissions will cause delay.

Name of site									
			Ixworth						
Name or code of series									
			Ixworth						
Your sample i	referen	ice							
			Ixworth 140cm						
Type of mater	ial Ple	ease mark v	with X			_			
Animal bone		Charcoal		Leather		Shell	Water		
Antler		Fabric			eat	Slag		Wood	
Bone		Grain			lant macrofossil	Soil			
Carbonised residu	ie	Human b	one	Se	ediment	Thatch			
Specific identi	ificatio	n	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Weight of sample			
eg left tibia, <i>Quercus</i> sp., sapwood,						eg less than 5g			
Name of person carrying						Date identified			
out identification and		d							
institution aff	iliated	to							
Collector's name				Date collected Ju		July 2006			
		Dr Tom Hill							
Submitter's name					Date subn	submitted October		06	
	Dr Ben								
Estimated arc			riod Plea	ise i	mark with X				
Palaeolithic		0,000 BP			Post medieval		1540 – 1955 cal AD		
Mesolithic	10,000	BP - 4,000	cal BC		Holocene				
Neolithic	_	- 2,500 cal			GS-1 (Younger Dryas)				
Bronze Age	2,500 -	,500 – 600 cal BC			GI–1a (Allerød)				
Iron Age	cal BC 600 – 43 cal AD				GI–1b+c (Older Drya	ıs)			
Roman	43 – 410 cal AD				GI-1d+e (Bølling)				
Early medieval	al 410 – 1066 cal AD			X	GS-2 (Middle Weich	selian)			
Medieval	1066 – 1540 cal AD								

For AML use
AML approval

AML no

Financial year Deadline

Notes for dating laboratory

Context		
Was the sample	X	Sealed in recognisable layer?
Please mark with X		Sealed in a localised feature? eg a grave or pit
		Unstratified
		Other eg wooden pile foundation
This is known	X	Confidently
Please mark with X		Probably
		Doubtfully

Stratigraphic details

Please give details of the contextual and stratigraphic location of the sample, attaching plan or section. Please discuss the possibility of intrusion or residuality *eg inhumation G76 overlying* posthole P27 and inhumation G124 and cut by inhumation G128. The skeleton was fully articulated, removing any possibility of disturbance or excarnation.

Analysis of aerial photographs, LiDAR and grey literature as part of the Suffolk River Valleys Project resulted in the identification of possible organic deposits preserved within palaeochannel features of the River Black Burn, within Mickle Mere, Ixworth. Sedimentary coring within the floodplain identified the presence of peat deposits to a depth of c. 3.50m. A sample core was taken for further analysis that was representative of the floodplain's sedimentary archive.

0-50	Unsampled (light grey slightly gravely silt)
50-57	Same as above
57-87	Dark brown very well humified peat with occasional herbaceous remains
87-138	Dark brown/grey-brown herbaceous well humified silty peat.
138-141	Light grey-brown organic rich sand horizon
141-150	Dark brown very well humified slightly silty peat
150-250	Dark brown herbaceous very well humified peat, occasional wood fragments
250-264	Grey-brown slightly gravely organic silt.
264-345	Dark brown herbaceous well humified woody peat
345-350	Grey silty sand.

Sample Ixworth 140cm was taken from the base of a light grey-brown organic sand unit, which is underlain by dark brown well humified peat.

Environmental Details

Please give full details of the burial environment of the sample, including local geology, nearness to water table, calcareous environment, rootlet penetration, disturbance etc. eg grave 1.7m from surface, waterlogged in winter, cut into natural chalk (pH 7.5). Possible contamination from modern septic tank to NW.

The underlying geology of the area surrounding Mickle Mere comprises predominantly of chalk, chalk till, and glaciofluvial drift and till.

The stratigraphy and sedimentology of the deposits suggests the area initially infilled naturally through biogenic in-situ sedimentation. Thin minerogenic horizons are present within the peat deposits, which may have been accumulated during periods of temporary catchment instability and floodplain flooding. The peat is capped by a layer of silt which is likely to have accumulated through floodplain deposition. The natural water table was located c. 0.4m from the surface. Rootlet penetration was not evident within the core upon extraction.

Objective

Please describe explicitly the relevance of this sample to the specific dating objective(s) of the project. This information should hold good regardless of the final result of the analysis. This is **your** chance to justify the expense of dating **your** samples!

eg to establish the period of use of the cemetery to the W of the church and N of the fourteenth-century boundary ditch, the absolute date of this burial in comparison to G124 which it seals and G128 which cuts it, and to provide useful comparative information for the osteology since this skeleton has also provided a stable isotope measurement ($\delta^{15}N$ 6.2).

- To determine the onset of minerogenic sedimentation on the underlying peat unit across the valley floodplain.
- To determine the duration of sedimentation and variations in the rates of sedimentation during the depositional history.

Rela	Relationship of sample to objective Please mark with X				
X	Certain	The sample came from the object itself <i>eg skeleton in grave</i>			
	Very likely	There is a direct functional relationship between the sample and the			
		objective eg coffin in grave			
	Likely	The nature and position of the sample suggests a functional			
		relationship eg worked antler in an occupation layer			
	Possible	Relationship less obvious because material small and scattered <i>eg</i>			
		bone fragments in grave			
Esti	mated age of sample	e at death Please mark with X			
X	Less than 20 years	eg twigs, grain, bone			
	Could be several decades but less than 100 years eg charcoal from short lived woody species (eg				
	Corylus avellana, Prunus sp., Pinus sp., Salix/populus sp.)				
	Could be centuries old eg charcoal from long lived woody species (eg Quercus sp., Fraxinus				
	sp., Taxus baccata)				
	Unknown eg 'dark ea	orth', soil			

Sample collection, storage and treatment
How was the sample collected? Please include details of size and type of monolith tins or coring equipment if appropriate <i>eg concentration of charcoal trowelled into polythene bags (double bagged), charcoal separated by water floatation</i>
Core was extracted using a 7cm Russian corer.
How has it been stored? Eg double bagged in polythene in cardboard box
Core sections were stored in 1m sections In plastic guttering, wrapped and transported to the laboratory for sub-sampling and refrigeration storage.
Have any preservatives, fungacides, glues etc been used? Please give details of chemicals
No
Was the sample waterlogged when collected?
No
Has it been dried and if so how?
No
Can the whole sample be used for dating?
Yes
Is more material available?
We could collect more material from appropriate samples

We could collect more material from appropriate samples.

Has this or any related sample been sent to another laboratory for dating? Please give laboratory references and radiocarbon ages

NO

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