

Centre for Archaeology	
Scientific Dating Service	,

# **Details of Radiocarbon Sample**

For Dating Lab use Lab No
Result
δ <sup>13</sup> C:
δ <sup>15</sup> 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			Hengrave								
Name or code of series			Hengrave								
Your sample	referen	ice	Hengrav	e 27	76cm						
Type of mater	rial Ple	ease mark v	with X								
Animal bone		Charcoal		Le	eather		Shell		Wate	er	
Antler		Fabric			eat	X	Slag		Wood		
Bone		Grain			lant macrofossil		Soil				
Carbonised residu	ie	Human b	one	Se	ediment		Thatch				
Specific identi	ificatio	n		Weight of sample					e		
eg left tibia, <i>Quercus</i> sp., sapwood,						eg less than 5g					
Name of person carrying							Date identified				
out identification and											
institution aff	iliated	to									
Collector's name					Date collected		Aug	August 2007			
201100001 2 1101110			Dr Tom Hill								
Submitter's name					Date submitted		August 2007				
		Dr Ben Gearey									
Estimated arc			riod Plea	ise i	mark with X						
Palaeolithic	Palaeolithic Until 10,000 BP				Post medieval	1540 -		1955 cal AD			
Mesolithic 10,000 BP – 4,000			cal BC		Holocene						
Neolithic 4,000 – 2,500 cal BC				X	GS-1 (Younger Dryas)						
Bronze Age	2,500 – 600 cal BC				GI–1a (Allerød)						
Iron Age cal BC 600 – 43 cal AD				GI–1b+c (Older Dryas)							
Roman 43 – 410 cal AD				GI–1d+e (Bølling)							
Early medieval 410 – 1066 cal AD				GS-2 (Middle W	eich	selian)					
Medieval 1066 – 1540 cal AD			D								

For AML	use
AML approv	al

AML appro

Financial year Deadline

Notes for dating laboratory

Context		
Was the sample		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 a possible palaeochannel within the floodplain of the River Lark, proximal to Hengrave. The lack of palaeoenvironmental research undertaken within the region resulted in the site being chosen for further analysis. A sedimentary core, representative of the Hengrave floodplain stratigraphic archive, was sampled:

### Hengrave

Dark brown well humified peat with occasional silt and sand-rich horizons
Dark grey-brown well humified silty peat
Dark grey-brown herbaceous well humified peat
Dark grey-brown herbaceous well humified peat with occasional silt-rich
horizons
Dark grey-brown silt-rich well humified peat
Dark grey-brown herbaceous well humified peat with occasional silt
Dark brown herbaceous humified peat with occasional wood fragments
Grey-brown silt-rich peat with occasional sand horizons within
Grey-brown organic-rich sand
Grey-brown organic-rich silt with occasional sand horizons
Grey-brown organic silty sand

Sample Hengrave 276cm was taken from the base of a dark brown herbaceous humified peat with wood fragments.

#### **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 this part of the River Lark catchment is comprised predominantly of glaciofluvial drift.

The stratigraphy and sedimentology of the deposits suggests the area infilled naturally through biogenic in-situ sedimentation. The variation in minerogenic content within the peat units suggests changing environmental conditions during the development of the stratigraphic archive. The natural water table was located c. 0.8m 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 timescale involved for in-situ organic sedimentation in the valley floodplain of the River Lark.
- To determine the duration of sedimentation and variations in the rates of sedimentation during the depositional history.

Rela	<b>Relationship of sample to objective</b> 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 eg				
		bone fragments in grave				
Esti	Estimated age of sample 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 earth', 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 eg concentration of charcoal trowelled into polythene bags (double bagged), charcoal separated by water floatation

Vehicle access to the site was difficult, hence hand-dug trenching to 0.65m depth was undertaken and sampled using monolith tins. Coring with a 7cm Russian sampler was undertaken to a depth of 3.65m.

How has it been stored? Eg double bagged in polythene in cardboard box

The core was extracted an preserved in 1m guttering sections, 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

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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