

Centre for Archaeology	
Scientific Dating Service	,

Details of Radiocarbon Sample

For Dating Lab use Lab No
Result
δ ¹³ C:
δ ¹⁵ 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 reference		Hengrave 161cm									
Type of materi	i al Pl	ease mark v	with X								
Animal bone		Charcoal		Le	eather		Shell		Water		
Antler		Fabric			eat	X	Slag		Wood		
Bone		Grain			ant macrofossil		Soil				
Carbonised residue	e	Human b	one	Se	ediment		Thatch				
Specific identif eg left tibia, <i>Querc</i>							Weight of sample eg less than 5g				
Name of perso							Date ident		<u> </u>		_
-		•					Date lucili	incu			
out identification and											
institution affil		το							1 26		
Collector's name		Dr Tom Hill			Date collected Augus		August 20)07			
Submitter's name		Dr Ben Gearey			Date subm	mitted August 2007		007			
Estimated arch	naeolo	ogical per	riod Plea	ise i	mark with X						
Palaeolithic		0,000 BP			Post medieval			1540 -	1955 cal A	D	Х
Mesolithic	10,000	BP - 4,000	cal BC		Holocene						
Neolithic $4,000 - 2,500 \text{ cal } 1$				GS-1 (Younger Dryas)		s)					
Bronze Age 2,500 – 600 cal BC		C		GI–1a (Allerød)							
Iron Age cal BC 600 – 43 cal AD		al AD		GI–1b+c (Older Dryas)							
Roman 43 – 410 cal AD		X	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 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 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

0-28cm Dark brown well humified peat with occasional sil	t and sand-rich horizons	
28-47cm Dark grey-brown well humified silty peat		
47-80cm Dark grey-brown herbaceous well humified peat		
80-151cm Dark grey-brown herbaceous well humified peat with occasional silt-		
horizons		
151-162cm Dark grey-brown silt-rich well humified peat		
160-195cm Dark grey-brown herbaceous well humified peat w	rith occasional silt	
195-277cm Dark brown herbaceous humified peat with occasion	onal wood fragments	
277-295cm Grey-brown silt-rich peat with occasional sand hor	izons within	
295-320cm Grey-brown organic-rich sand		
320-350cm Grey-brown silt-rich peat with occasional sand hor	rizons	
350-365cm Grey-brown organic silty sand		

Sample Hengrave 161cm was taken from the base of a dark grey-brown well humified silty 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 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	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 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

23 Savile Row London W1S 2ET Tel 020 7973 3299 Fax 020 7973 3330

Email alex.bayliss@english-heritage.org.uk