

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		Beccles									
Name or code of series		Beccles#1									
Your sample	referen	ice	Beccles#1 84cm								
Type of mater	ial Ple	ease mark v	with X								
Animal bone		Charcoal		L	eather		Shell		Wat	er	
Antler		Fabric			eat	X	Slag		Woo	od	
Bone		Grain			ant macrofossil		Soil				
Carbonised residu	ıe	Human b	one	Se	ediment		Thatch				
Specific identi	ificatio	n						of sample			
eg left tibia, Quer	cus sp., s	sapwood,					eg less than 5g				
Name of perso	on carr	ying					Date identified				
out identificat	ion and	d									
institution aff	iliated	to									
Collector's na	me						Date colle	cted	Aug	ust 2007	
Concetor's name		Dr Tom Hill									
Submitter's name					<b>Date submitted</b> Aug		ust 2007				
		Dr Ben Gearey									
Estimated arc			riod Plea	ise i	mark with X						
Palaeolithic Until 10,000 BP			Post medieval			1540 – 1955 cal A			cal AD		
Mesolithic 10,000 BP – 4,000		cal BC		Holocene							
Neolithic	, ,				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		X	GI–1d+e (Bølling)							
Early medieval	Early medieval 410 – 1066 cal AD				GS-2 (Middle W	eich	selian)				
Medieval	edieval 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 a thick peat sequence within the valley floodplain of the River Waveney, proximal to the town of Beccles.

Beccles#1	
0-40cm	Agricultural rooty topsoil (unsampled)
40-45cm	Dark grey-brown silt-rich well humified peat
45-62cm	Red-brown herbaceous very well humified peat
62-85cm	Red-brown herbaceous peat with occasional wood fragments
85-206cm	Red-brown herbaceous well humified peat with occasional wood fragments
206-330cm	Dark brown herbaceous humified peat with abundant wood fragments
330-360cm	Dark brown very well humified peat with occasional wood fragments
360-460cm	Dark brown-black very well humified peat

Sample Beccles#1 84cm was taken from the base of a red-brown very 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 this part of the Waveney Valley comprises glaciofluvial drift and chalk till.

The stratigraphy and sedimentology of the deposits suggests the area has infilled naturally through biogenic in-situ sedimentation. There is no evidence for channel migration in this part of the Waveney Valley, indicating sedimentation in a back-water lagoonal environment is a more likely depositional environment than a palaeochennel setting. Estuarine sediments are present further north from the location of core Beccles#1, indicative of estuarine inundation in the surrounding area. The sediments were extracted using a Russian corer to a depth of 4.60m. The natural water table was located c. 0.7m from the surface. Rootlet penetration was not evident within the core upon extraction, although phragmites was present (which are known to penetrate peat to considerable depths).

## **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 timing of organic sedimentation across the Holocene floodplain.
- To determine the duration of biogenic 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	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 Monolith tins used to a depth of 1.09m. 7cm Russian Corer to 4.60m depth How has it been stored? Eg double bagged in polythene in cardboard box Core preserved in 1m sections in guttering, wrapped in the field, sub-sampled and stored in fridge on returning to the laboratory. 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

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No

laboratory references and radiocarbon ages