ENGLISH HERITAGE

Centre for Archaeology Scientific Dating Service

Details of Radiocarbon Sample

For Dating Lab use Lab No
Result
$\delta^{I3}C$:
$\delta^{I^5}N$:
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			Decelor								
			Beccles								
Name or code of series			Beccles#2								
Your sample	referer	100									
Tour sample			Beccles#2 430cm								
Type of mater	rial Pl	ease mark v									
Animal bone		Charcoal		L	eather		Shell	Water		ter	
Antler		Fabric		Peat x		Х	Slag		Wood		
Bone		Grain			lant macrofossil		Soil				
Carbonised residu	ie	Human b	one	S	ediment		Thatch			_	
Specific identification			Weight o				Weight of	sample	e		
eg left tibia, Quer	<i>cus</i> sp.,	sapwood,					eg less than :	eg less than 5g			
Name of perso				Date ident	tified						
out identification and											
institution aff	institution affiliated to										
Collector's name			Dr Tom Hill			Date collected		August 2007			
Submitter's name						Date submitted		August 2007			
			Dr Ben Gearey								
Estimated arc	haeolo	gical per	iod Plea	ase	mark with X						
Palaeolithic	Until 1	10,000 BP			Post medieval			1540 – 1955 cal AD			
Mesolithic	10,000 BP – 4,000 cal BC			х	Holocene						
Neolithic	4,000 – 2,500 cal BC				GS-1 (Younger I						
Bronze Age	2,500 – 600 cal BC				GI-1a (Allerød)						
Iron Age					GI-1b+c (Older I						
Roman	43 - 4	10 cal AD			GI–1d+e (Bølling)						
Early medieval	410 -	1066 cal AI)		GS–2 (Middle Weichselian)						
Medieval 1066 – 1540 cal AD											

For AML use AML approval AML no

Financial year Deadline

Notes for dating laboratory

Context					
Was the sample	Х	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	Х	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#2

0-100cm	Disturbed topsoil/made ground (possible dumping from proximal
	drainage ditch – unsampled)
100-138cm	Dark red-brown silt-rich well humified peat
138-232cm	Dark brown very well humified peat with occasional wood fragments
232-360cm	Dark red-brown very well humified peat with occasional wood fragments
360-400cm	Dark red-brown herbaceous humified peat
400-430cm	Dark brown-black very well humified peat

Sample Beccles#2 430cm was taken from the base of a dark brown-black 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 palaeochannel setting. Estuarine sediments are present further north from the location of core Beccles#2, indicative of estuarine inundation in the surrounding area. The sediments were extracted using a Russian corer to a depth of 4.30m. The natural water table was located c. 0.8m 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 (δ^{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.

Kel	Relationship of sample to objective Please mark with X					
х	Certain	The sample came from the object itself eg skeleton in grave				
	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					
х	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					

Relationship of sample to objective Please mark with X

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*

Using 7cm Russian Corer to 4.30m 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 laboratory references and radiocarbon ages

No

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