



ENGLISH HERITAGE

Centre for Archaeology Scientific Dating Service

Details of Radiocarbon Sample

For Dating Lab use

Lab No

Result

$\delta^{13}C$:

$\delta^{15}N$:

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		Beccles							
Name or code of series		Beccles#1							
Your sample reference		Beccles#1 202cm							
Type of material Please mark with X									
Animal bone		Charcoal		Leather		Shell		Water	
Antler		Fabric		Peat		Slag		Wood	x
Bone		Grain		Plant macrofossil		Soil			
Carbonised residue		Human bone		Sediment		Thatch			
Specific identification eg left tibia, <i>Quercus</i> sp., sapwood,				Weight of sample eg less than 5g					
Name of person carrying out identification and institution affiliated to				Date identified					
Collector's name				Dr Tom Hill				Date collected July 2006	
Submitter's name				Dr Ben Gearey				Date submitted October 2006	
Estimated archaeological period Please mark with X									
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			GS-1 (Younger Dryas)					
Bronze Age	2,500 – 600 cal BC			GI-1a (Allerød)					
Iron Age	cal BC 600 – 43 cal AD		x	GI-1b+c (Older Dryas)					
Roman	43 – 410 cal AD			GI-1d+e (Bølling)					
Early medieval	410 – 1066 cal AD			GS-2 (Middle Weichselian)					
Medieval	1066 – 1540 cal AD								
Context									

For AML use

AML approval
AML no

Financial year
Deadline

Notes for dating laboratory

Was the sample Please mark with X	x	Sealed in recognisable layer?
		Sealed in a localised feature? <i>eg a grave or pit</i>
		Unstratified
		Other <i>eg wooden pile foundation</i>
This is known Please mark with X	x	Confidently
		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 exhumation.*

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.

0-20	Dark brown herbaceous very well humified silty peat
20-85	Medium brown very well humified silty peat
85-100	Grey-brown organic rich silt
100-116	Dark grey-brown very well humified silty peat
116-200	Red-brown very well humified peat with occasional wooden fragments
200-484	Dark red-brown herbaceous very well humified woody peat
484-500	Dark brown herbaceous very well humified peat
500-525	Dark red-brown herbaceous very well humified peat
525-535	Dark brown herbaceous very well humified peat
535-545	Dark grey-brown organic-rich sandy silt.

Sample Beccles#1 202cm was taken from the top of a dark red-brown herbaceous 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. A thin silt horizon is located c. 85-100cm depth is believed to be of estuarine origin, and is indicative of a period of temporary marine inundation before a return to terrestrial sedimentation. Estuarine sediments become present in increasing thickness within the valley's sedimentary archive with distance north from the Beccles#1 core site. The natural water table was located c. 0.5m from the surface, although an archaeological dig proximal to the site resulted in the temporary artificial lowering of the water table. 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 ($\delta^{15}\text{N}$ 6.2‰).

- To determine the timing of organic sedimentation across the Holocene floodplain.
- To determine the duration of in-situ biogenic sedimentation and variations in the rates of sedimentation during the sites depositional history.

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 <i>eg coffin in grave</i>
	Likely	The nature and position of the sample suggests a functional relationship <i>eg worked antler in an occupation layer</i>
	Possible	Relationship less obvious because material small and scattered <i>eg bone fragments in grave</i>

Estimated age of sample at death Please mark with X

x	Less than 20 years <i>eg twigs, grain, bone</i>
	Could be several decades but less than 100 years <i>eg charcoal from short lived woody species (eg Corylus avellana, Prunus sp., Pinus sp., Salix/populus sp.)</i>
	Could be centuries old <i>eg charcoal from long lived woody species (eg Quercus sp., Fraxinus sp., Taxus baccata)</i>
	Unknown <i>eg 'dark earth', soil</i>

Sample collection, storage and treatment
<p>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></p> <p>Using 7cm Russian Corer to 4.0m depth, and gauge corer 4.0m to 5.45m depth</p>
<p>How has it been stored? <i>Eg double bagged in polythene in cardboard box</i></p> <p>Core preserved in 1m sections in guttering, wrapped in the field, sub-sampled and stored in fridge on returning to the laboratory.</p>
<p>Have any preservatives, fungicides, glues etc been used? Please give details of chemicals</p> <p>No</p>
<p>Was the sample waterlogged when collected?</p> <p>No</p>
<p>Has it been dried and if so how?</p> <p>No</p>
<p>Can the whole sample be used for dating?</p> <p>Yes</p>
<p>Is more material available?</p> <p>We could collect more material from appropriate samples</p>
<p>Has this or any related sample been sent to another laboratory for dating? Please give laboratory references and radiocarbon ages</p> <p>No</p>

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