

Director: Professor A B MacKenzie Director of Research: Professor R M Ellam Rankine Avenue, Scottish Enterprise Technology Park, East Kilbride, Glasgow G75 0QF, Scotland, UK Tel: +44 (0)1355 223332 Fax: +44 (0)1355 229898 www.glasgow.ac.uk/suerc

# RADIOCARBON DATING CERTIFICATE

03 July 2012

Laboratory Code	SUERC-40358 (GU26783)

**Submitter** Charlotte Coles

Room G10, Exeter City Council

Civic Centre, Paris Street

Exeter

Devon EX1 1RQ

**Site Reference** Exeter Cathedral Close

Context ReferenceCB40Sample ReferenceCB40

Material Charcoal: oak

 $\delta^{13}$ C relative to VPDB -25.9 %

**Radiocarbon Age BP**  $1150 \pm 35$ 

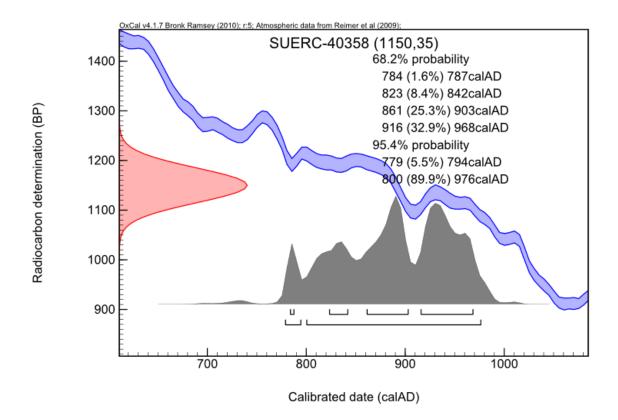
**N.B.** The above <sup>14</sup>C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standards, background standards and the random machine error.

The calibrated age ranges are determined using the University of Oxford Radiocarbon Accelerator Unit calibration program OxCal 4.1 (Bronk Ramsey 2009). Terrestrial samples are calibrated using the IntCal09 curve while marine samples are calibrated using the Marine09 curve.

Conventional age and calibration age ranges calculated by:-	Date :-	
Checked and signed off by :-	Date :-	









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### RADIOCARBON DATING CERTIFICATE 03 July 2012

Laboratory Code	SUERC-40359 (GU26784)
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**Submitter** Charlotte Coles

Room G10, Exeter City Council

Civic Centre, Paris Street

Exeter

Devon EX1 1RQ

**Site Reference** Exeter Cathedral Close

Context Reference OB448 Sample Reference OB448

Material Bone : human

 $\delta^{13}$ C relative to VPDB -18.8 %  $\delta^{15}$ N relative to air 13.6 % C/N ratio (Molar) 3.2

**Radiocarbon Age BP**  $630 \pm 35$ 

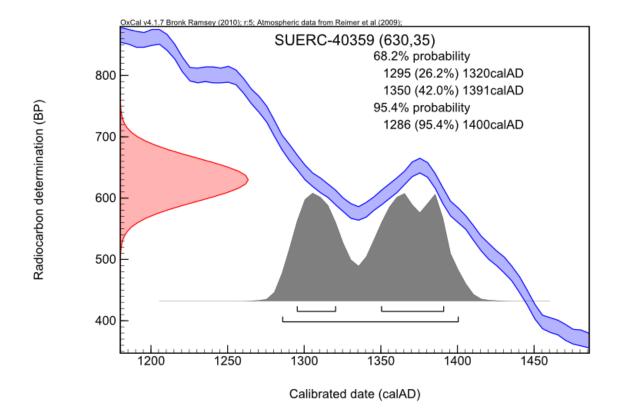
**N.B.** The above <sup>14</sup>C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standards, background standards and the random machine error.

The calibrated age ranges are determined using the University of Oxford Radiocarbon Accelerator Unit calibration program OxCal 4.1 (Bronk Ramsey 2009). Terrestrial samples are calibrated using the IntCal09 curve while marine samples are calibrated using the Marine09 curve.

Conventional age and calibration age ranges calculated by:-	Date :-
Checked and signed off by :-	Date :-









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### RADIOCARBON DATING CERTIFICATE 03 July 2012

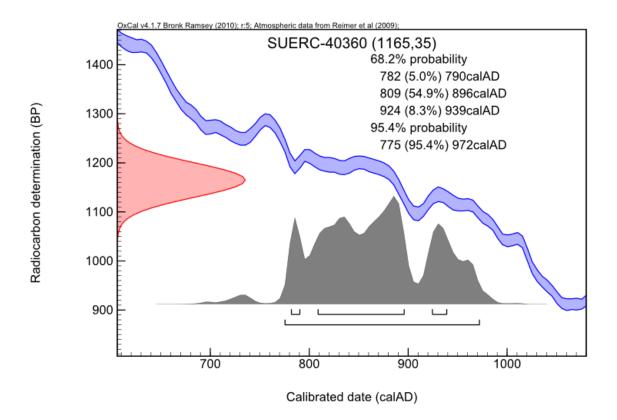
Labora	ntory Code	SUERC-40360 (GU26785)	
Submit	tter	Charlotte Coles Room G10, Exeter City Council Civic Centre, Paris Street Exeter Devon EX1 1RQ	
Contex	ference t Reference e Reference	Exeter Cathedral Close CB67 CB67	
Materi	al	Bone : human	
δ <sup>15</sup> N re	elative to VPDB elative to air tio (Molar)	-19.5 ‰ 11.1 ‰ 3.2	
Radioc	arbon Age BP	$1165 \pm 35$	
N.B.	at the one sigma level of commodern reference standards,  The calibrated age ranges are calibration program OxCal 4 IntCal09 curve while marine  Samples with a SUERC codi Centre AMS Facility and sho questions directed to the Rad	in conventional years BP (before 1950 AD). If idence, includes components from the count background standards and the random machine determined using the University of Oxford I. 1 (Bronk Ramsey 2009). Terrestrial samples samples are calibrated using the Marine09 cump are measured at the Scottish Universities I buld be quoted as such in any reports within the iocarbon Laboratory should also quote the Grontact details for the laboratory are email g.c. eect line.	ing statistics on the sample, ne error.  Radiocarbon Accelerator Unit are calibrated using the arve.  Environmental Research he scientific literature. Any U coding given in parentheses
Convent	tional age and calibration age ra	anges calculated by :-	Date :-



Checked and signed off by :-



Date:-





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# RADIOCARBON DATING CERTIFICATE

03 July 2012

361 (GU26786)
361 (GU2678

**Submitter** Charlotte Coles

Room G10, Exeter City Council

Civic Centre, Paris Street

Exeter

Devon EX1 1RQ

**Site Reference** Exeter Cathedral Close

Context ReferenceCB40Sample ReferenceCB40

Material Bone : human

 $\delta^{13}$ C relative to VPDB -19.2 %  $\delta^{15}$ N relative to air 11.6 % C/N ratio (Molar) 3.1

**Radiocarbon Age BP**  $1030 \pm 35$ 

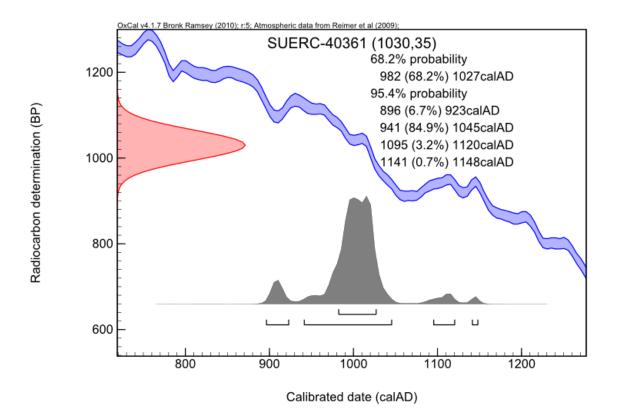
**N.B.** The above <sup>14</sup>C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standards, background standards and the random machine error.

The calibrated age ranges are determined using the University of Oxford Radiocarbon Accelerator Unit calibration program OxCal 4.1 (Bronk Ramsey 2009). Terrestrial samples are calibrated using the IntCal09 curve while marine samples are calibrated using the Marine09 curve.

Conventional age and calibration age ranges calculated by:-	Date :-
Checked and signed off by :-	Date :-









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### RADIOCARBON DATING CERTIFICATE 03 July 2012

Laboratory Code	SUERC-40362 (GU26787)
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**Submitter** Charlotte Coles

Room G10, Exeter City Council

Civic Centre, Paris Street

Exeter

Devon EX1 1RQ

Site Reference Exeter Cathedral Close

Context Reference OB264 Sample Reference OB264

Material Bone : human

 $\delta^{13}$ C relative to VPDB -20.1 %  $\delta^{15}$ N relative to air 11.9 % C/N ratio (Molar) 3.2

**Radiocarbon Age BP**  $1105 \pm 35$ 

**N.B.** The above <sup>14</sup>C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standards, background standards and the random machine error.

The calibrated age ranges are determined using the University of Oxford Radiocarbon Accelerator Unit calibration program OxCal 4.1 (Bronk Ramsey 2009). Terrestrial samples are calibrated using the IntCal09 curve while marine samples are calibrated using the Marine09 curve.

Conventional age and calibration age ranges calculated by :-	Date :-
Checked and signed off by :-	Date :-





