Appendix G:
C14 Analysis Report

FROM: Darden Hood, Director (mailto:mailto:dhood@radiocarbon.com)
(This is a copy of the letter being mailed. Invoices/receipts follow only by mail.)

April 12, 2006

Mr. Scott Emory
A.D. Marble and Company
18000 Horizon Way
Suite 200
Mt. Laurel, NJ 08054
USA

RE: Radiocarbon Dating Results For Samples F1-418, F5A-19, F10-LV2

Dear Mr. Emory:

Enclosed are the radiocarbon dating results for three samples recently sent to us. They each provided plenty of carbon for accurate measurements and all the analyses went normally. As usual, the method of analysis is listed on the report with the results and calibration data is provided where applicable.

As always, no students or intern researchers who would necessarily be distracted with other obligations and priorities were used in the analyses. We analyzed them with the combined attention of our entire professional staff.

If you have specific questions about the analyses, please contact us. We are always available to answer your questions.

The cost of the analysis was charged to the credit card provided. A receipt is enclosed. Thank you. As always, if you have any questions or would like to discuss the results, don't hesitate to contact me.

Sincerely,

Darden Hood

Mr. Scott Emory

Report Date: 4/12/2006

A.D. Marble and Company

Material Received: 3/8/2006

Sample Data	Measured Radiocarbon Age	13C/12C Ratio	Conventional Radiocarbon Age(*)
Beta - 215290 SAMPLE : F1-418 ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid 2 SIGMA CALIBRATION : Cal AD 680 to 890 (Cal BP 1270 to 1060)	1230 +/- 40 BP	-24.1 o/oo	1240 +/- 40 BP
Beta - 215291 SAMPLE : F5A-19 ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 1750 to 1540 (Cal BP 3700 to 3490)	3400 +/- 40 BP	-26.3 o/oo	3380 +/- 40 BP
Beta - 215292 SAMPLE : F10-LV2 ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid 2 SIGMA CALIBRATION : Cal AD 350 to 530 (Cal BP 1600 to 1420)	1650 +/- 40 BP	-26.2 o/oo	1630 +/- 40 BP

CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-24.1:lab. mult=1)

Laboratory number: **Beta-215290**

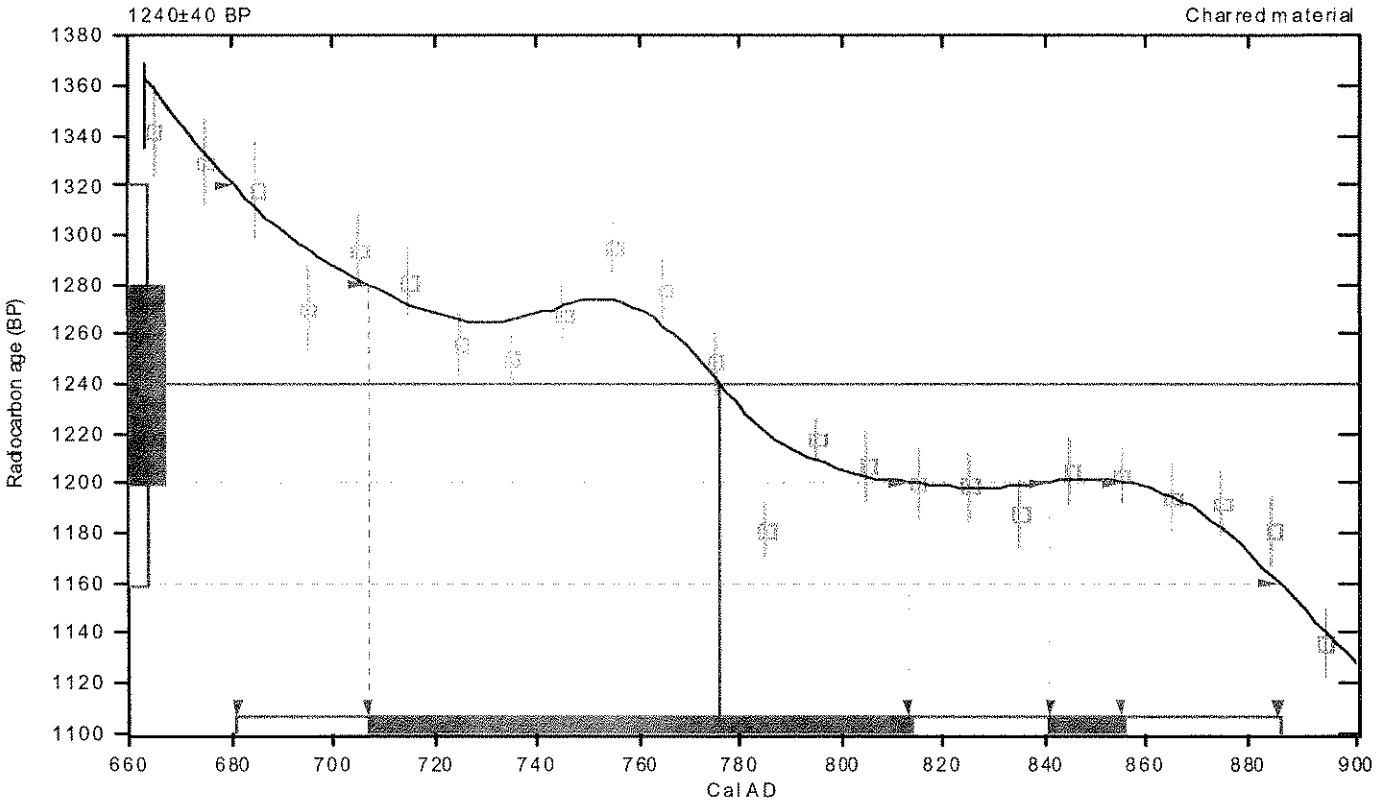
Conventional radiocarbon age: **1240±40 BP**

2 Sigma calibrated result: **Cal AD 680 to 890 (Cal BP 1270 to 1060)**
(95% probability)

Intercept data

Intercept of radiocarbon age with calibration curve: Cal AD 780 (Cal BP 1170)

1 Sigma calibrated results: Cal AD 710 to 810 (Cal BP 1240 to 1140) and
(68% probability) Cal AD 840 to 860 (Cal BP 1110 to 1100)



References:

Database used
INTCAL98
Calibration Database
Editorial Comment
Stuiver, M., van der Plicht, H., 1998, Radiocarbon 40(3), pxii-xiii
INTCAL98 Radiocarbon Age Calibration
Stuiver, M., et. al., 1998, Radiocarbon 40(3), p1041-1083
Mathematics
A Simplified Approach to Calibrating C14 Dates
Talma, A. S., Vogel, J. C., 1993, Radiocarbon 35(2), p317-322

Beta Analytic Radiocarbon Dating Laboratory

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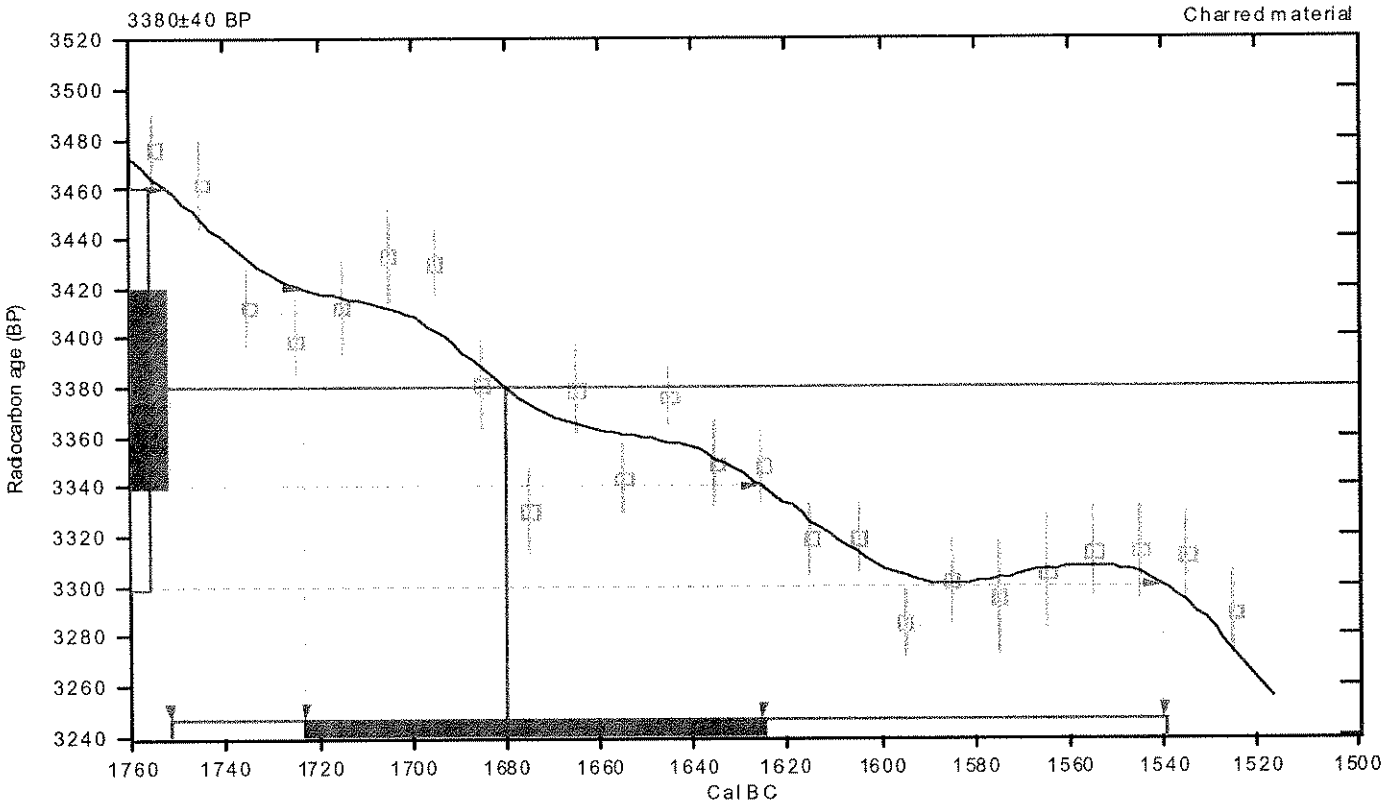
CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26.3:lab. mult=1)

Laboratory number:	**Beta-215291**
Conventional radiocarbon age:	**3380±40 BP**
2 Sigma calibrated result: (95% probability)	**Cal BC 1750 to 1540 (Cal BP 3700 to 3490)**

Intercept data

Intercept of radiocarbon age with calibration curve:	Cal BC 1680 (Cal BP 3630)
1 Sigma calibrated result: (68% probability)	Cal BC 1720 to 1620 (Cal BP 3670 to 3580)



References:

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INTCAL98

Calibration Database

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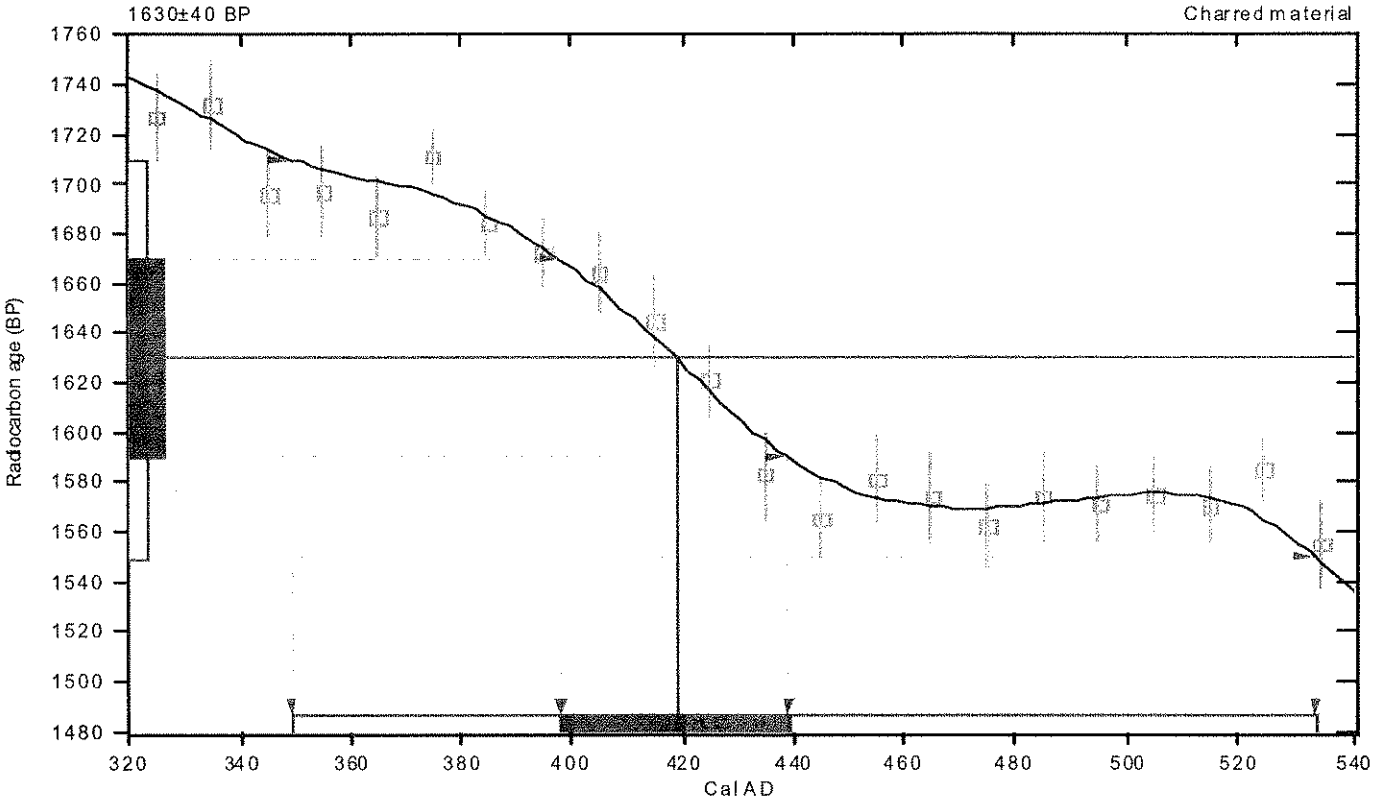
CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26.2:lab. mult=1)

Laboratory number:	**Beta-215292**
Conventional radiocarbon age:	**1630±40 BP**
2 Sigma calibrated result: (95% probability)	**Cal AD 350 to 530 (Cal BP 1600 to 1420)**

Intercept data

Intercept of radiocarbon age with calibration curve:	Cal AD 420 (Cal BP 1530)
1 Sigma calibrated result: (68% probability)	Cal AD 400 to 440 (Cal BP 1550 to 1510)



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