INSTITUT ROYAL DU PATRIMOINE ARTISTIQUE
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KONINKLIJK INSTITUUT VOOR HET KUNSTPATRIMONIUM
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28/11/2016

Jackie Taffinder, PhD
Projekt manager/Alvastra pile dwelling
Swedish history museum
Storgatan 41, Box 5428
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RADIOCARBON DATING REPORT

The sample was pre-treated following the bleaching method. It was first pre-treated with 1 M KOH during 1hour at circa 95°C. Hereafter it was pre-treated with $NaClO_2$ at circa 95°C during 2 hours.
Weight after pre-treatment: 3,1 mg

The pre-treated samples were graphitised on the automated graphitisation system AGE (Wacker et al. 2010)

Then the graphite sample was analysed on the Micadas (AMS) following Boudin et al. 2015.

Calibration was performed with Oxcal 3.1 and calibration curve Intcal13.

RICH-23700 (Fid 1199457) : 449±27BP
 68.2% probability
  1430AD (68.2%) 1455AD
 95.4% probability
  1415AD (95.4%) 1475AD

References

Boudin, M., Van Strydonck, M., Synal, H., Wacker, L., 2015. RICH–a new AMS facility at the Royal Institute for Cultural Heritage, Brussels, Belgium. Nucl. Instrum. Methods Phys. Res., Sect. B Beam Interact. Mater. Atoms. 361:120-123

Mojmír Němec, Lukas Wacker, Heinz Gäggeler, 2010, Optimization of the graphitisation process at AGE-1, Radiocarbon 52(2–3): 1380–1393.

All the best,

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