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The Radiocarbon Laboratory Accredited to ISO-17025 Testing Standards (PJLA Accreditation #59423)

Quality Assurance Report

This report provides the results of reference materials used to validate radiocarbon analyses prior to reporting. Known value reference materials were analyzed quasi-simultaneously with the unknowns. Results are reported as expected values vs measured values. Reported values are calculated relative to NIST SRM-4990B and corrected for isotopic fractionation. Results are reported using the direct analytical measure percent modern carbon (pMC) with one relative standard deviation.

Report Date: August 21, 2012
Submitter : Ms. Mary Snyder

QA MEASUREMENTS

Reference 1	Expected Value: 55.7 +/- 0.3 pMC Measured Value: 55.5 +/- 0.3 pMC Agreement: Accepted
Reference 2	Expected Value: 2.6 +/- 0.2 pMC Measured Value: 2.7 +/- 0.1 pMC Agreement: Accepted
Reference 3	Expected Value: 57.2 +/- 0.3 pMC Measured Value: 56.7 +/- 0.3 pMC Agreement: Accepted
Reference 4	Expected Value: 97.8 +/- 0.5 pMC Measured Value: 99.0 +/- 0.5 pMC Agreement: Accepted

COMMENT: All measurements passed acceptance tests.

Validation:

Date: August 21, 2012