

AASHTO Accreditation Program (AAP)

Proficiency Sample Corrective Action Report

5/29/13

Name/Location of Laboratory: University of Arkansas	Sample Material: Soils
Laboratory PSP Number: 3879	Sample Numbers: 167/168

Please use this form when investigating poor ratings on proficiency sample testing. Results which are beyond 2 standard deviations of the grand average are considered to be poor results (ratings of 0, 1, and 2). Investigate the root cause of the problem and describe the corrective action taken to resolve the problem in the areas provided. Please retain a copy of this document for your own records. You do not need to submit this form to the AMRL or CCRL for review, but if you would like feedback on your findings, it is permissible to request it.

Test Method: AASHTO T00 ASTM _____ **Rating:** -2 (Sample 167)

Root Cause Analysis (A step-by-step method that leads to the discovery of the problem's first or root cause.)

A review of the test method was performed first, and all calculations were reviewed and checked. Next, a review/recount of the sample testing sequence was discussed. For this sample, it was recalled that the sample boiled violently in the pycnometer, shifting the pyc on its stand. The heat was turned down at that point, but this action could have caused slight sample loss, reducing Gs.

Corrective Action (Action taken to eliminate the cause of a detected nonconformity.)

The burner arrangement and stands was reviewed and adjusted for easier control of heat.