**AASHTO Accreditation Program (AAP)**

**Proficiency Sample Corrective Action Report**

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| **Name/Location of Laboratory:**  **University of Arkansas** | **Sample Material:**  **Soils** |
| **Laboratory PSP Number:** **3879** | **Sample Numbers:**  **165&166** |

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| ***Please use this form when preparing responses to 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. Attach any supporting documentation. Please retain a copy of this document for your own records.*** |

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| **Test Method**: AASHTO 100 ASTM       **Rating**: -2 |
| **Root Cause Analysis** (A step-by-step method that leads to the discovery of the problem’s first or root cause.)At the time the samples were tested and results calculated, it was noted that a large difference existed for the results of the two samples. At that time, the test method was reviewed for any deviations, but none were noted. And since it was unknown whether samples 165 and 166 were intended to be identical, no retesting was performed. The only possible cause for the difference noted was the amount of time and depth that the thermometer stayed in the pycnometers for temperature measurements. |
| **Corrective Action** (Action taken to eliminate the cause of a detected nonconformity.)  **In the future, the thermometer will be placed to a measured depth within the pycnometer (for consistency), and left for a period of at least 5 minutes (even if the reading appears stable before that time).** |