

Consultants Profiler Experience

by

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Abstract

The Consultant needs to collect accurate and repeatable High Speed Inertial Profiler (HSP) smoothness data which may be verified by the State Agency to ensure the HSP unit is collecting data properly and in accordance with the State specifications and tolerances. As a consultant, our goal is to provide a service utilizing properly calibrated/certified equipment with knowledgeable/certified operators. Our function is to provide accurate, repeatable data without regard to incentive/disincentive payment with focus to the task we were hired to perform and results which can be duplicated regardless of consultant/agency.

Our primary client is the paving contractor. We collect QC and/or QA HSP data on the paving contractors newly rehabilitated or newly constructed roadways and submit our collected data to the State entity. Our collected data may be used by the state to determine incentive or disincentive payment and to identify areas that require corrective action. In addition, it is common for the paving contractor to request the consultant's HSP to mark the roadway for corrective action (grinding) based on the States determination of localized roughness.

If done correctly, locating and grinding areas of localized roughness, as determined by the State, will result in improved ride quality numbers. If areas of localized roughness are not located correctly, the grinding process can significantly deteriorate ride quality of the newly constructed roadway. What is lacking from the certification courses, in Colorado and Wyoming, is a method to accurately and efficiently locate areas, identified by the state, for corrective action.

This presentation will highlight our success collecting accurate, repeatable data and our ability to accurately and efficiently locate areas of localized roughness, produce a ProVAL display of repeat runs which visually illustrates accuracy and repeatability of the HSP equipment to our client, the contractor and also, the ability to return to a project at a later date, after corrective action to verify the required corrective work has been completed and produce a ProVAL display for the contractor depicting the grinding results.

THEME: Pavement Profile Measurements, Profile Data Analysis, and Data Quality Assurance