

Aggregates

Aim of the Program

This proficiency testing program aims to assess laboratories' ability to competently perform the tests in accordance with the AS 1141 series of standards; and to provide participants with external quality assurance to enhance accuracy and reliability.

Application of the Program to Accreditation

Participation in this proficiency testing program satisfies the requirements of ISO/IEC 17025:2017 – *General Requirements for the Competence of Testing and Calibration Laboratories* for monitoring performance by comparing results with other laboratories.

Program Details

The Aggregates program is a triannual program comprising of two Coarse Aggregate rounds and one fine Aggregate round per year.

Samples - One bucket of 20 mm graded aggregate.

Tests Coarse Aggregate – Bulk Density, Particle Shape by Proportional Calliper, Particle Density on a Saturated-Surface-Dry basis, Particle Density and Water Absorption, Particle Size Distribution, Material Finer than 75 µm, Particle Shape, Flakiness Index, Average Least Dimensions.

Tests Fine Aggregate - Particle Density and Water Absorption, Aggregate Soundness by Exposure to Sodium Sulphate, Degradation Factor, Clay and fine Silt, Organic impurities other than Sugar, Particle Size Distribution, Material Finer than 75 µm.

Statistical Analysis:

A robust z-score technique is used to assess performance.

Reporting:

At the conclusion of each round, each participant receives a confidential individual summary sheet, detailing its performance in the program, and a final program report summarising all participant data.

Confidentiality

Each participant is assigned a unique code number, keeping all results anonymous in all PTA reports and publications.

Fees and Further Information

For information on program fees or other enquiries, please contact PTA directly:

Email: ptaenquiry@pta.asn.au