

New Zealand Aggregate Extraction and Processing Practice

Stacy Goldsworthy

Downer NZ, Green Vision Recycling

New Zealand utilises aggregate crushing and screening processes that have developed to meet our particular specification requirements. The need for high quality aggregate especially for concrete and pavement surfacing requires additional processing requirements.

The predominant source of rock, greywacke, presents a number of challenges to produce a high quality fit for purpose aggregate. These deposits have been formed by the accumulation and burial of sediments so that they form an indurated rock suitable for a variety of applications. In some geological units, the rock may contain minerals that form under low grade metamorphic conditions.

This presentation will cover our utilisation of modern extraction, crushing and screening practices to produce aggregate and what the key factors are that influence aggregate production and quality. There are several distinct processes involved in aggregate processing. The operator; when making decisions on resource and equipment selection review a number of factors to optimise capital and operational costs.