

Aggregate resource assessment techniques

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Poor techniques currently being used in the search for, and assessment of, construction aggregate often lead to poor quality of material being used in road construction, as evidenced by premature deterioration of asphalt. The techniques that should be used to insure a proper assessment are investigated here.

Aggregate resource assessment involves research techniques from geology and geotechnical engineering to determine the quality of a resource. This paper will deal with

such techniques as the initial Site evaluation, petrographic analysis, geological structures, sedimentary structures in quaternary deposits and investigating geotechnical properties of the resource.

Once the resource assessment is completed, a quality appraisal may be assigned to the deposit or resource and a recommendation made for its use as asphalt, Class A and B material, subgrade, concrete aggregate or fill material.