

**PRELIMINARY TESTS OF WOOD FLY ASH AS A POTENTIAL ADDITIVE
FOR CEMENT-BASED MATERIALS**

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Reference: CBU-1998-06

ABSTRACT

The scope of this project is to determine physical, chemical, mineralogical, and microscopical properties of the Weyerhaeuser Company's wood fly ashes from different sources. The primary objective of this project is to recommend alternatives to the normal practice of landfilling by recommending potential reuse/recycling applications of these materials. Three different sources of wood fly ash were used in this project.

It has been established that properties of wood combustion by-products (fly ash and bottom ash) can vary greatly from mill to mill depending upon the type and source of fuel, how the ash is collected, design and operation of the boiler, etc. Therefore, it is important to determine physical, chemical, and morphological properties of the wood ash for determining its appropriate use options.