

PAPER INDUSTRY BY-PRODUCTS UTILIZATION

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ABSTRACT

The report describes existing as well as potential use options for paper industry by-products. By-products from paper and associated products industry are mainly waste sludges from liquid waste treatment plants. Most of these sludges are recycled. Some sludges which contain very short fiber material and contaminating coagulant chemicals are not recycled. These sludges are usually lagooned, landfilled or subject to land cultivation. Based on the information accumulated, it was concluded that utilization of the paper and allied product industry sludges will open a new market potential in addition to solving the disposal problems. Use of the sludges in cement-based material appears to be the most promising constructive use option. Use of sludges in re-vegetation of land has been successfully demonstrated in the past. Other use options, such as recovery of fillers through incineration, screening, and wet oxidation, would require further testing and evaluations.