

## **Analisis geoteknik lahan timbunan tanah penutup tambang batu bara sebagai lokasi pemukiman**

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20436347&lokasi=lokal>

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### **Abstrak**

Outside dump of Air Lava Coliery is large ( $\pm 650$  ha), in order to sustainable land use, the location should be used. Using the location as farm or plantation is relatively difficult due to the land fertility. Potential usage is as a settlement, this is supported by infrastructure availability (road, bridge, economic center, medical facilities, and other). To support the usage of outside dump as settlement, geotechnical analysis should be performed in relation with the physical and mechanical characteristics of soil as well as the slope stability. Sampling and laboratory analysis provide that there is no relationship trends between cohesion and depth as well as the dumping time. This because of the material being dumped is heterogen and compacting procedure applied which may be not same from one area to another. Hence, for use as settlement, detail geotechnics study of the location should be conducted. In location with low cohesion value, simple building may be build, whereas in location with high cohesion value permanent or multi-floor building can be build.