

**KAJIAN PRODUKSI BERSIH DENGAN SUBSTITUSI TANAMAN PIONIR
PADA LAHAN REKLAMASI PASCA TAMBANG BATUBARA
KABUPATEN PASER, KALIMANTAN TIMUR**

Firmansyah

Program Studi Magister Ilmu Lingkungan, Universitas Gadjah Mada Penulis
korespondensi: firmanadnan10@gmail.com

Abstrak

Aktivitas penambang batubara sistem terbuka menimbulkan lubang tambang (*void*) dan dinding dengan kemiringan mengarah pada lapisan batubara *low wall*, kualitas tanah pada lahan pasca tambang menurun maka perlunya reklamasi revegetasi lahan untuk mendukung pemanfaatan lahan yang berkelanjutan dengan penanaman tanaman budidaya. Pengambilan sampel tanah di Pit Samurangau dan Pit Susubang, total 7 sampel tanah menggunakan metode acak, dengan jarak antar sampel 50-100 meter, rata rata kedalam sampel tanah 30 cm. Uji laboratorium untuk mengetahui sifat kimia pada tanah dan penilaian keberhasilan reklamasi sesuai Permen ESDM No.7 Tahun 2014 . Reklamasi lahan dengan penanaman tanaman budidaya jenis durian (*Durio zibethinus MURR*) IRR 60%, ramah lingkungan indikator produksi bersih masuk katagori SDGs 8, 15 dan 17.

Kata Kunci : Reklamasi-revegetasi, tanaman budidaya, Produksi bersih

CLEANER PRODUCTION STUDY WITH SUBSTITUTION OF PIONEER
PLANTS IN POST-MINING RECLAMATION LANDS COAL
PASER DISTRICT, EAST KALIMANTAN PROVINCE

Firmansyah

Master of Environmental Science, Gadjah Mada University

Correspondence: firmanadnan10@gmail.com

Abstrack

Open system coal mining activities create mine pits (voids) and walls with a slope towards the low wall coal layer, the quality of the soil in post-mining land decreases, hence the need for land revegation reclamation to support sustainable land use by planting cultivated plants. Taking soil samples in Samurangau and Susubang pits, a total of 7 soil samples with a random method with a distance between samples of 50-100 meters flat into the soil sample 30 cm. Laboratory tests to determine the chemical properties of the soil and assess the success of reclamation according to the Minister of Energy and Mineral Resources Regulation No.7 of 2014. Land reclamation by planting durian (*Durio zibethinus* MURR) cultivated plants with IRR 60%, environmentally friendly indicators of clean production are included in the SDGs category 8, 15 and 17.

Keywords : Reclamation-revegetation, cultivated plants, cleaner production